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The FARM and RANCH REVIEW

AND THE COUNTRY HOME

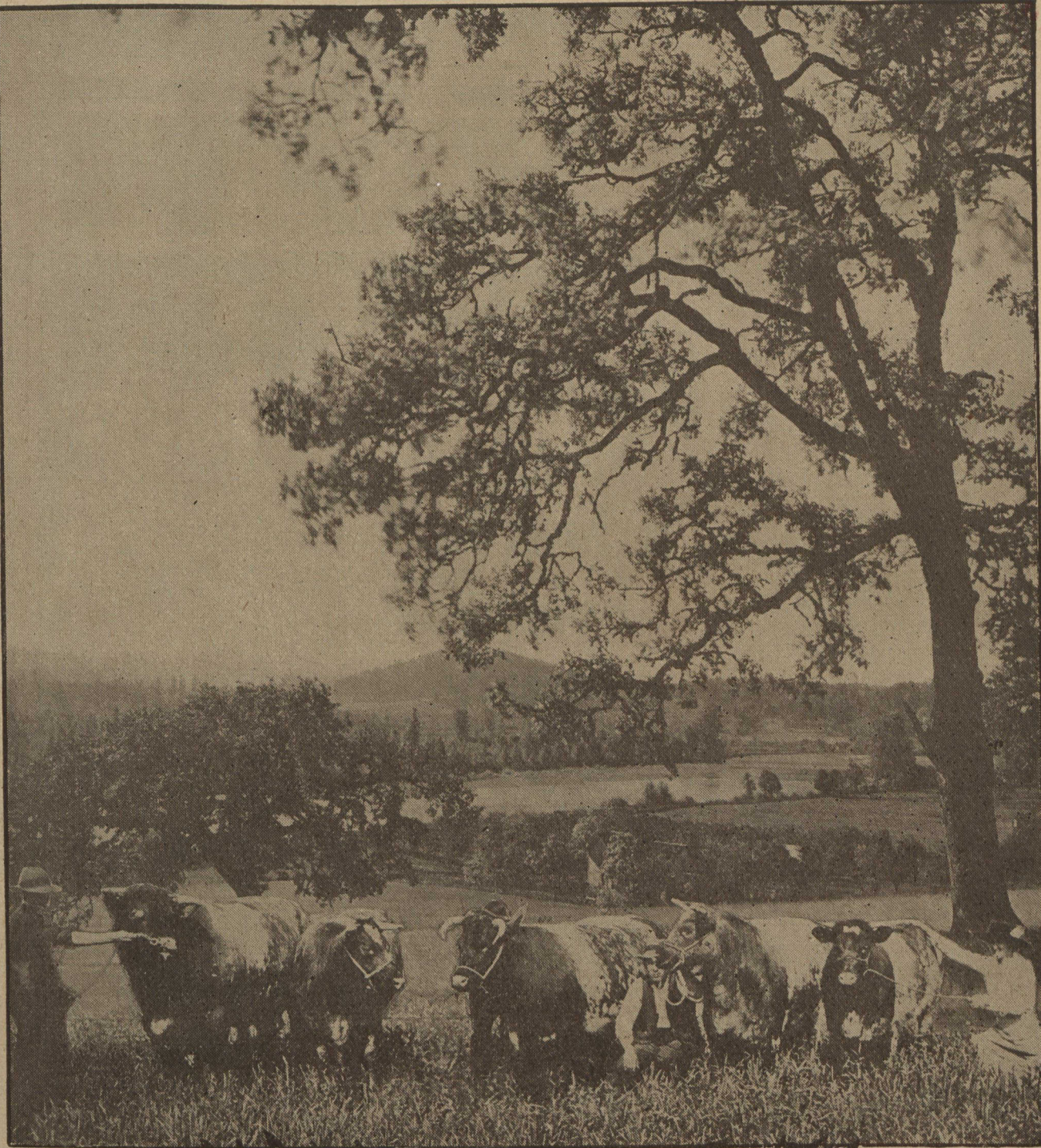
THE MIDDLE WEST FAMILY MAGAZINE

Published on the 5th and 20th of Each Month

VOL. XIII.

CALGARY-DECEMBER 5, 1917-CANADA

NO. 23



Yule and Bowes' Champion Shorthorn Herd, Calgary and Edmonton Exhibitions, 1917. Attend their 3rd Annual Sale, Midway Sale Stables, Calgary, Dec. 12th, 1917

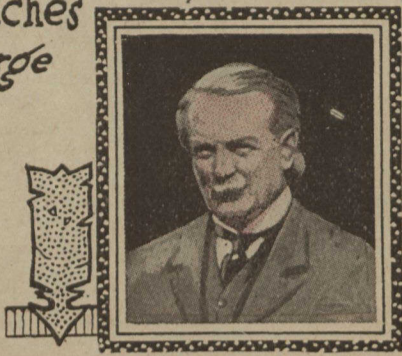
CHRISTMAS ISSUE- PRICE 25 CENTS

"The Kitchen must help as well as the workshop and the trenches"
Lloyd George

The thrifty housewife saves in all her baking by using

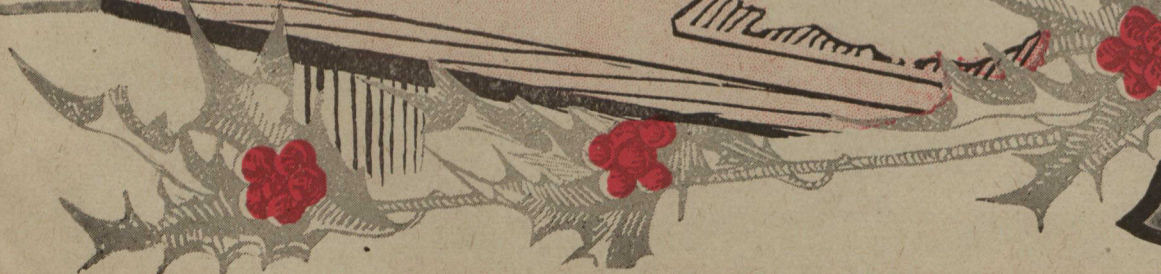
PURITY FLOUR

More Bread and Better Bread



**We extend
to all:
a hearty
Christmas
greeting.**

WESTERN CANADA FLOUR MILLS CO., LIMITED
 Millers to the People
 WINNIPEG BRANDON CALGARY GODERICH





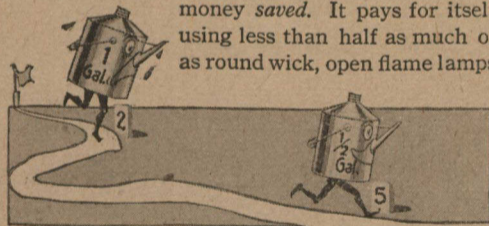
More and Better Light—On Less Oil

Beats
Electric

**Test This Wonderful Coal Oil Mantle Light
10 Days FREE—Just Send the Coupon**

Saves
Money

ACCEPT this free trial offer. Find out at our risk how your home can be better lighted than a city home. For here's a light that *beats* gas, beats gasoline, beats even the tungsten electric light. It is five times as efficient as the ordinary round wick flame lamp. Who says it is? The Government Bureau of Standards says so — 34 great universities say so — their exhaustive tests have proven it. This light was awarded the gold medal at the Panama Exposition as the world's best. To have this wonderful light in your home means money saved. It pays for itself, using less than half as much oil as round wick, open flame lamps.



**Half the Oil Goes Twice
as Far**

Air is the most abundant thing in the world. Out of 94% air mixed with the vapor from the oil, the Aladdin, by the use of a mantle, creates the

most mellow, restful, steady light ever produced. It burns 70 hours on a gallon of oil. Saves eye strain and brings cheer and contentment to the home. Dim lights have caused untold eye strain, headache and misery. The poor lamps of the country are responsible for the fact that one out of every five among country children has defective vision while only one out of twenty among city children is similarly afflicted.

The Aladdin banishes dim light and eye strain. Saves the children's eyes, encourages study and reading—makes them glad to stay home.

**\$1000 in Gold
For Lamp Equal to Aladdin**

To prove that our statements regarding the superiority of the Aladdin are not mere idle claims, we offer \$1000, ready for instant payment, to any person who can produce or show us an oil lamp equal to the new Aladdin. Write for circular giving particulars of this great challenge offer. This offer has been standing for more than four years, but up to the present date, not one single lamp has been submitted for a test.



**Write for Yours Today
Send No Money—Charges Prepaid**

Let us send you an Aladdin to use ten nights in your home—charges prepaid—return charges paid too in case you are not entirely satisfied. Find out how it floods the whole room with mellow, cheerful light — how it really does beat gas, electricity and acetylene for brilliancy—how noiseless, smokeless and odorless it is—how it saves half or more in oil and actually pays for itself.

**Keep the Aladdin
Without Cost**

We have thousands of inquiries from our advertising. We want a user in *your* neighborhood, so we can say to inquirers: "Go and see the lamp." If you are willing to let folks *see* your Aladdin lighted up, you can *keep* yours without cost. Send the coupon. The *first* applicant from each town is offered this chance. Send the coupon today. *Be the first.*

The Mantle Lamp Company
263 Aladdin Bldg., Winnipeg
Largest Kerosene (Coal Oil) Mantle Lamp House in the World
Also Offices and Warerooms at
Montreal, Chicago, New York City, and Portland, Ore.

**Get an *Aladdin* Free
Make a Lot of Money!**

**Just Send
the
Coupon**

Get the wonderful New Aladdin for your own home free — and in spare hours make more money than you've ever made before. You can do this without interfering with other work, without disturbing your pleasure.

No Experience is Necessary

You don't have to be a good talker. Our wonderful light "*talks*" for itself. No investment necessary. We furnish the goods on 30 days' credit. Send the coupon. Look into this wonderful opportunity now.

**Make \$100 to \$300 per month, spare time,
same as these men, without experience.**

Geo. B. Quimby, Elma, R1, wrote April 1, 1917: "I never sold anything before I started with the Aladdin. The first five days I sold 17 lamps." Claude Bridges, Macon, writing April 24, 1917, said: "In the three months' time I have been working I have sold 120 lamps." Bert Archenbronn, Grass Lake, "called at 30 homes—sold 24 lamps—and all in less than 6 days' work." R. L. Eberman, Metzger, wrote March 29, 1917: "I have sold hundreds of Aladdin lamps in a field honeycombed with electric light current." W. B. Stine, Surprise, sold 8 Aladdins in 4 hours. G. R. Baldwin, Marysville, sold 33 in one week. Rev. Theo. L. Blanken, Milford, sold 5 in one afternoon. We have thousands of letters like these from all parts of the country.

Send No Money—Send Just This

THE MANTLE LAMP CO., 263 Aladdin Bldg., Winnipeg
Gentlemen:—Send me full particulars about—

- Proof that the Aladdin Mantle Lamp gives the world's best light at a big saving in oil.
- Your offer to send the Aladdin prepaid for ten days free trial and how it can be kept without charge.
- Your plan whereby I can get an Aladdin free and make a lot of money without the need of experience or capital.

(NOTE:—If you are interested in the money-making opportunity, write a letter and attach to the coupon, tell us something about yourself, whether or not you have a rig or auto to work in rural districts, give your age, present occupation; say whether you can work full time or just part time, when you can start and what territory you would prefer. Hurry your letter before territory is taken.)

Name

P. O.

R. F. D. or Street No. Province

Western Stock Ranches Limited

Owners of the Largest Flock of Pure-Bred OXFORD DOWN SHEEP IN WESTERN CANADA

These sheep are ideal for "range breeding", they are smooth large with dense fleeces and are easy keepers. We can assure the public that we are sparing no effort to keep our fine flock up to its standard. We buy our own rams irrespective of price and we keep improving our flock in all the fine points.

We will have a nice lot of ram lambs for sale in 1918. These lambs will have size, fleece qualities, vigor and masculinity so important in stud rams.

We would ask our Customers and prospective Customers to make a point of seeing **OUR EXHIBIT** at the Calgary Fat Stock Show from Dec. 11th to 14th inclusive.

Pure bred Oxford Ewes and Rams also high grade breeding Ewes for sale at all times at reasonable prices.

Our **GRADE EWES** at the Sheep Sale at Calgary on Oct. 30th brought the fine record price of \$18.40 per head. Facts speak for themselves.

PURE-BRED JERSEYS

We will have some young males for sale next year from our pure bred Jersey herd fit to head the best foundation herds. This herd is headed by Toronto's "Olinda's Pogis" bred by E. J. Hood, Lowell, Mass, and sired by "Pogis 75th" of Hood Farm. The Dam of Toronto's "Olinda's Pogis" carries a record of 15,202 lbs. milk and 851 lbs. butter in one year, and as a two year old gave 8,627 lbs. milk and 536 lbs. butter in one year. The high quality of our stock is indisputable. It represents the blood of the greatest quality producers of the breed.

VISITORS ARE WELCOME AT OUR RANCH. WRITE WIRE OR PHONE YOUR REQUIREMENTS.

RANCH PHONE AND POST OFFICE
CLUNY - - ALBERTA

HEAD OFFICE : CALGARY
P. O. DRAWER 163 PHONE M 1514

CLYDESDALES - - CLYDESDALES

**New
Importation
from
Scotland
just arrived**



Clydesdale stallions belonging to Ben Finlayson, Olds, Alberta. From right to left they stand, "Edward Garnet," "Monteith's Splendor," "Arngibbon." "Edward Garnet" has been first in his class and champion at all the leading Western Canadian Fairs this Summer, while the other two horses have generally been next to him in the line-up.

I HAVE ON HAND A CHOICE COLLECTION OF CLYDESDALE STALLIONS, THE BEST I HAVE EVER OFFERED TO THE PUBLIC OF WESTERN CANADA.

MY HORSES ARE BIG, WEIGHTY FELLOWS OF THE RICHEST BREEDING AND INDIVIDUALITY.

I have for immediate sale 7 Stallions rising two years old by such well-known sires as "Dunure Tidal Wave," "Sir Hugo," "Royal Favourite," "Baron of Buchlyvie," "Bannockburn," and others. I have also a fine 3-year-old by the Champion, "Edward Garnet," and a four-year-old by "Iron Duke," by that great sire "Everlasting." "Iron Duke" was first at the Royal Show, England, a few years ago. In addition to these I have the CHAMPION at all the Western Summer Fairs this year, "Edward Garnet" 16578, by Royal Edward, 11495; dam, "Lady Garnet," by "Baron's Pride," "Bonnie Woodside," 18905, by "Bonnie Buchlyvie"; dam, "Edna," by "Royal Edward." This 5-year-old stallion was champion of the breed at Edmonton Spring Show this year.

Also the well-known show and stock horses "Bowhill Baron," "Dunure Tidal Wave" and others.

MARES:—I have a few really high class females to sell, all bred to "Edward Garnet."

If you are looking for a real stock horse to head your stud of registered mares, I have the horse that will suit you, or if you are in the market for a big, weighty stallion with plenty of bone for all classes of mares, I can furnish same.

SHORTHORNS:—I have also a few good Shorthorns of both sexes, various ages, of good Scotch ancestry to dispose of.

STABLES IN TOWN:—Come and see my offerings and be convinced. My **PRICES** are **FAIR** and I can suit the **MOST CRITICAL**.

B. & W. M. FINLAYSON

OLDS, ALBERTA

SUNNY SLOPE SCOTCH SHORTHORNS

One of the West's Good Breeding Herds



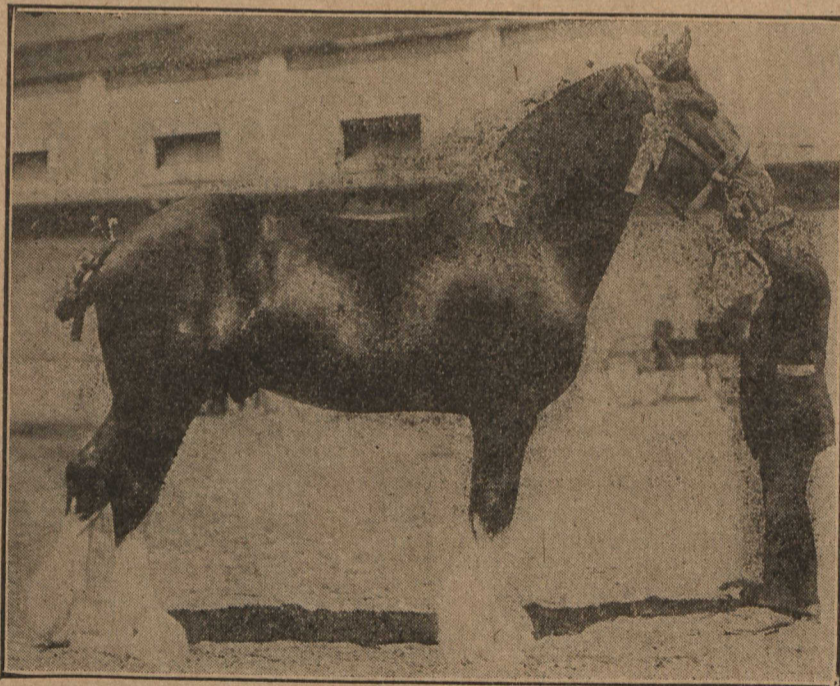
High class bulls, cows and heifers always for sale at reasonable prices. Some cracking good young bulls, by the great sire "VILLAGE PRIDE, 95785" for sale, suitable for heading high class herds, from grandly bred Scotch cows.

Write me your wants or better, visit the farm. 11 miles S.W. of Calgary. All stock loaded f.o.b. Calgary, any railroad.

NORMAN HARRISON

- -

PRIDDIS, ALBERTA



"CASTOR" 17924, Can. 18961 (Imp.). Sire "Dunure Index" 15809, Dam "Mary Blair" 21575

The horse "CASTOR" was never beaten in a show ring, was first at all the 1916 Western fairs, also winning out in his class at the Spring Show in Edmonton, 1917, got first and Reserve Grand Championship at Calgary Summer Fair, and first and Champion of the breed at Red Deer, 1917.

"DUNMORE LAD" was second at the Edmonton Spring Show, 1917, and second at the Red Deer Summer Fair, beaten only by his stable mate "Castor." He is an exceptionally fine horse. The balance of the Mares and Stallions are well known prize winners in the Western fairs. All my stock are rich in the blood of "BARON'S PRIDE," one of the greatest stallions of the breed; the invincible "HIAWATHA," the well-known "WOODEND GARTLEY" and other sires which have made the Clydesdale breed famous.

--FIRST ANNUAL DRAFT SALE--

OF REGISTERED

CLYDESDALE HORSES

AT THE CALGARY WINTER FAIR

WEDNESDAY, DEC. 12th, 1917

Sale commences at 9.30 a.m., at the HORSE SHOW BUILDING

The HORSES to be disposed of at the Sale are of an exceptionally fine type, including STALLIONS and MARES, with international reputation, and progeny from Scotland's choicest strains.

"DUNMORE LAD," 17788, sire "Hardy Lad," 7395, dam, "Cora of Dunmore," 18854.

"DUNMORE BOY," 17789, sire "Hardy Lad," 7395, dam "Kate of Dunmore," 15842.

"COUNT OF DUNMORE," 17875; sire, "Prince Bountiful," 10216; dam, "Queenie of Dunmore," 18855.

"PRIDE OF DUNMORE," 17769; sire, "Prince Bountiful," 10216; dam, "Cora of Dunmore," 18854.

"CORA OF DUNMORE," 18854; sire, "Charming Boy," 2794; dam, "Jess Kissock," 12928.

"KATE OF DUNMORE," 15842; sire, "Charming Boy," 2794; dam, "May McClean," 12917.

"LILY OF DUNMORE," 36290; sire, "Hardy Lad," 7395; dam, "Queenie of Dunmore," 18855.

A. D. McCORMACK

P. O. Box 257

CASTOR, ALBERTA

**PURE BRED
SHORTHORN SALE!**

Eighty Head of Registered Shorthorns will be offered for sale by Hon. Duncan Marshall

ON

THURSDAY, DECEMBER 13, 1917

AT THE

Exhibition Grounds, Calgary

SALE BEGINS AT 2 O'CLOCK P.M.

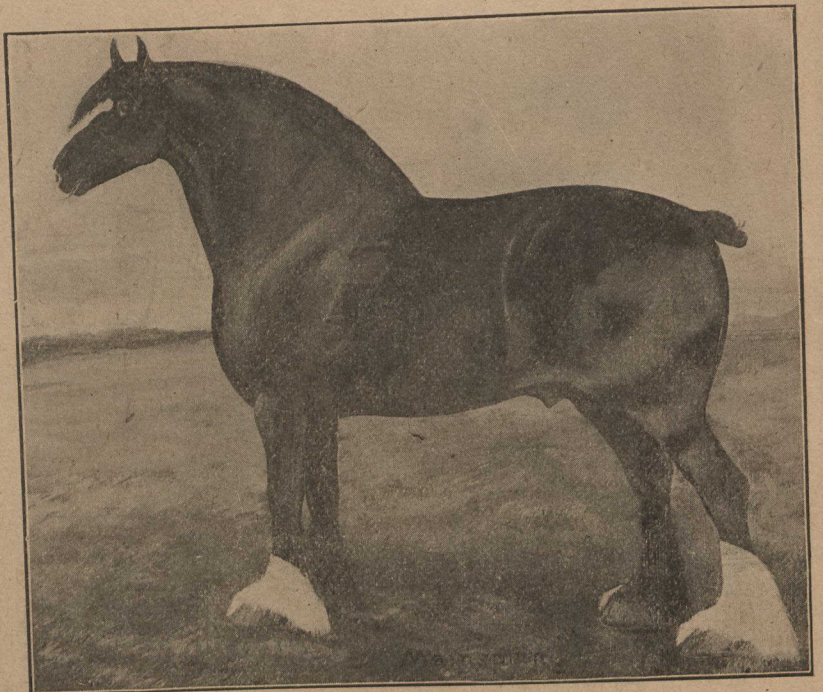
The CATTLE offered comprise a lot of extra good breeding individuals. Among them are a number of very thick mossy coated YOUNG HEIFERS some of them show propositions. About one-half the lot are YOUNG BULLS, and they are an extra good lot, both as to individual character and breeding.

The cattle will be on the Exhibition Grounds for inspection from Monday, December 10th. Write for catalogue to

**J. W. DURNO
JAMES CLENENTS
AUCTIONEERS**

**HON. DUNCAN MARSHALL
OLDS - - ALBERTA**

**HAZELDEAN RANCH
CLYDESDALES FOR SALE**



MAINSRING, (imp.) 8684, 14532, by "Ruby Pride," 7201; dam "Lady Bute," 16233. Much of my offering carry the blood of this well-known sire and show horse.

"SCOTLAND'S A.1," BY "SCOTLAND YET," AT HEAD OF STUD. I have a number of good STALLIONS and MARES for sale, sired by "Scotland's A.1," and by "Mainspring," also a splendid selection of high-class grade mares and geldings.

All my stallions have the size, substance, quality and conformation at the ground to breed the right kind for the show yard, the range or for farm work.

GET MY PRICES AND TERMS.

DUNCAN CLARK

DRAWER No. 2 :: :: CLUNY, ALBERTA

**ELKHORN STOCK
FARM**

**SHEEP and HEREFORD CATTLE
FOR SALE**

HERE IS OUR PRESENT OFFERING:

2000 Good Grade Shropshire, Oxford, Lincoln and Suffolk Ewes.
50 Pure-bred Rams—Oxfords, Shropshires, Suffolks and Cheviots; also a few grades.

Note:—Remember that the freight on sheep sent from Calgary is paid by the Dominion Government

HEREFORDS

100 HEAD consisting of Cows, Yearlings, 2-year-olds, Calves and Bulls of all ages.

THE COWS are the big, meaty, motherly, milky kind, that all breeders like, the kind that never fail to produce big, husky calves that always find a ready market at top prices. We are offering great values in these cattle, and want you to come and see them and buy them as cheaply as you can.

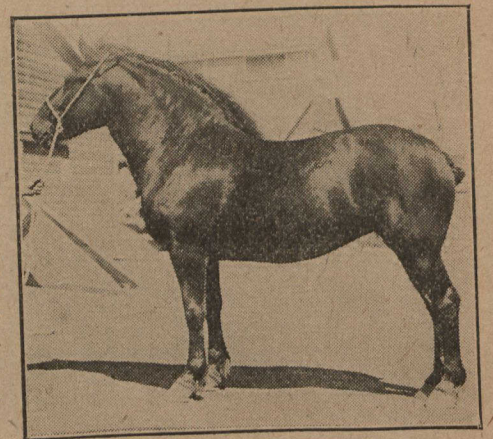
You will not be disappointed in their quality, conformation, breeding or condition. The offering includes some showyard prospects of unusual merit.

SIMON DOWNIE & SONS

CARSTAIRS ALBERTA
(FARM ONE MILE FROM TOWN)

**THE ACME
PERCHERONS**

My barn is filled with a very choice selection of both imported and home-bred Stallions and Mares. A glance at the cut in this advertisement of my four-year-old mare "Brilliantine of Acme," first prize three-year-old, Champion Canadian-bred and Reserve Grand Champion Mare, at Calgary, 1917, shows a uniformity of type and character supported on limbs of wonderful strength and admirable quality.



"BRILLIANTINE OF ACME"
THE KIND I BREED

I have a specially choice lot of young Stallions for sale, large, heavy-boned fellows with unsurpassed quality and breeding. All my horses are thoroughly acclimated. If you are in the market for a good horse, write and get my prices and terms, or better still, come and look over my stock.

MY PRICES AND TERMS ARE RIGHT

E. A. DAVENPORT

ACME - - ALBERTA

PEERLESS PERFECTION

Absolute Security

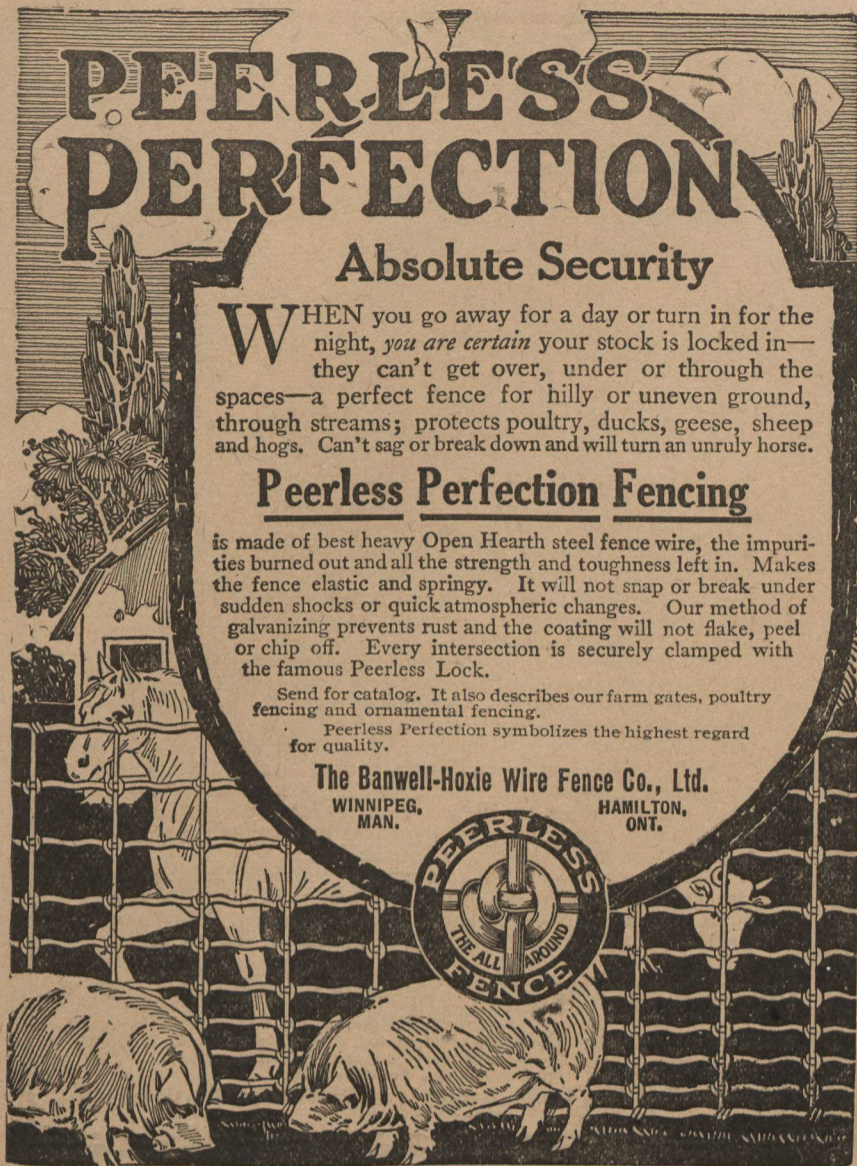
WHEN you go away for a day or turn in for the night, you are certain your stock is locked in—they can't get over, under or through the spaces—a perfect fence for hilly or uneven ground, through streams; protects poultry, ducks, geese, sheep and hogs. Can't sag or break down and will turn an unruly horse.

Peerless Perfection Fencing

is made of best heavy Open Hearth steel fence wire, the impurities burned out and all the strength and toughness left in. Makes the fence elastic and springy. It will not snap or break under sudden shocks or quick atmospheric changes. Our method of galvanizing prevents rust and the coating will not flake, peel or chip off. Every intersection is securely clamped with the famous Peerless Lock.

Send for catalog. It also describes our farm gates, poultry fencing and ornamental fencing.
Peerless Perfection symbolizes the highest regard for quality.

The Banwell-Hoxie Wire Fence Co., Ltd.
WINNIPEG, MAN. HAMILTON, ONT.



A "365" Day Liniment

YOU ARE SAYING TO YOURSELF—
"If I only knew of something to stop that Backache—help my Rheumatism—cure my Neuralgia, I would send and get it at once."

Get It. Gombault's Caustic Balsam will give you immediate Relief. A Marvelous Human Flesh Healer and a never failing remedy for every known pain that can be relieved or cured by external applications. Thousands testify to the wonderful healing and curing powers of this great French Remedy. A Liniment that will soothe, heal and cure your every day pains, wounds and bruises.

Gombault's Caustic Balsam

The Great French Remedy Will Do It

It Helps Nature to Heal and Cure. Penetrates, acts quickly, yet is perfectly harmless. Kills all Germs and prevents Blood Poison. Nothing so good known as an application for Sores, Wounds, Felons, Exterior Cancers, Burns, Carbuncles and Swellings.

"I had a bad hand with four running sores on it. The more I doctored the worse it got. I used Caustic Balsam and never needed a doctor after that."
—Ed. Rosenberg, St. Ansgat, Ia.

Mrs. James McKenzie, Edina, Mo., says: "Just ten applications of Caustic Balsam relieved me of goitre. My husband also cured eczema with it, and we use it for corns, bunions, colds, sore throat and pain in the chest."

A Safe, Reliable Remedy for Sore Throat, Chest Cold, Backache, Neuralgia, Sprains, Rheumatism and Stiff Joints. Whenever and wherever a Liniment is needed Caustic Balsam has no Equal.

Dr. Higley, Whitewater, Wis., writes: "I have been using Caustic Balsam for ten years for different ailments. It has never failed me yet."

A liniment that not only heals and cures Human Flesh, but for years the accepted Standard veterinary remedy of the world.

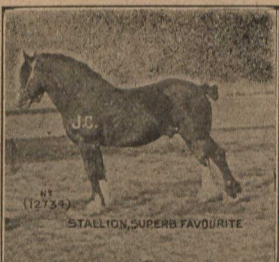
Price, \$1.50 per bottle at all Druggists or sent by us express prepaid. Write for Free Booklet and read what others say.

Cleveland, O. THE LAWRENCE-WILLIAMS CO. Toronto, Ont.

The J. C. RANCH

- ESTABLISHED 1883 -

The Largest Bunch of
**PURE-BRED
CLYDESDALES
IN ALBERTA**
To Select From.



MY STOCK HORSES ARE

"PUTCHACHAM HERO" (Imp.) 12733—Sire, "Silver Cup"; dam, "Bessie of Drumalea."

"KING FAVOURITE" 15387—Sire, "Superb Favourite," (imp.) 12734; dam, "Castle Favor," (imp.) 22024.

"SIR NORTON" 10904—Sire, "Montrave Ronald," (imp.); dam, "Bess 2nd of Dalavaddy" 21833.

Others are "Flint's Heir of Crowfoot"; sire, "Royal Favourite"; dam, "Miss Flint."

"GALLANT PEER" 17857—Stands 17.2 hands, weighs 2100 lbs.

I have also 10 head of pure-bred mares, imported and home-bred, for sale.

Come and look over my horses and get my prices. You will save money by doing so. Our ideal is the big, draughty type of Clydesdale for the Farmer and Rancher.

WE HAVE SEARCHED SCOTLAND FOR THIS KIND TO BREED FROM

JOHN CLARK, Jr.

BOX 32, GLEICHEN - ALBERTA

-200 BREEDING EWES-

FOR SALE AT REASONABLE PRICES, IN LOTS TO SUIT PURCHASERS, FROM OUR UNSURPASSED FLOCK OF

GRADE SHEEP

GEORGE WALTERS
DELACOUR on G.T.P. or DALROY on C.P.R.—
20 miles N.E. of Calgary.

CALL AT RANCH, OR WRITE WM. HUDSON, Resident Mgr.,
DELACOUR :: ALBERTA

THE BANDEATH STOCK FARM W. C. & J. A. JAMIESON, Proprietors.
Breeders of Clydesdales

We are offering for sale at the Winter Fair, Calgary, our bunch of breeding stock to square up estate of W. C. Jamieson, Sr., Partner of above firm, deceased. They are from some of the best bred mares imported to this country from sires such as Baron's Pride, Royal Favorite, Prince Alexander, Marcellus, etc. Some of these have been prize-winners at Alberta shows, others never shown, would be in the money at any show in the West.


NEW IMPORTATION

CLYDESDALE STALLIONS & MARES
ALSO
PERCHERON STALLIONS & MARES

Just Received and For Sale
by the Old Established Firm of

ALEX. GALBRAITH & SON

10129 98TH STREET - EDMONTON
Address: P. O. BOX 841



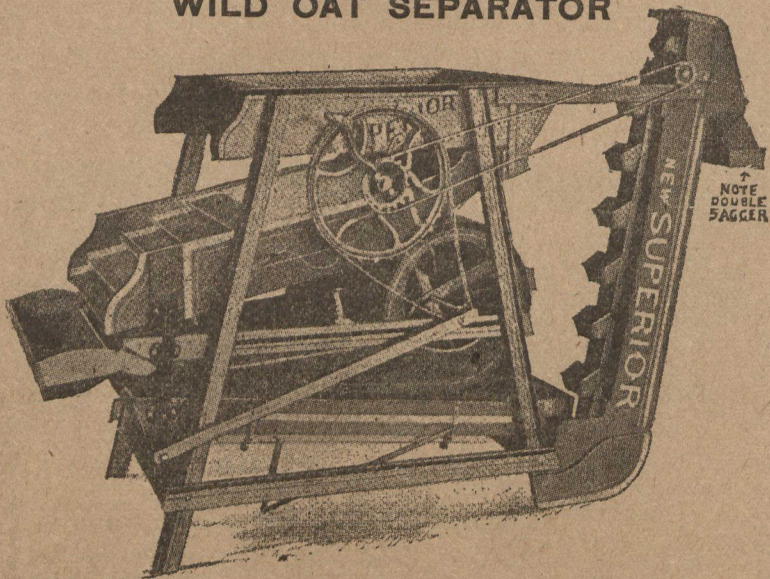
Prices and Terms Specially Attractive to Early Purchasers
SATISFACTION ABSOLUTELY GUARANTEED

SAVE DOCKAGE!

CLEAN YOUR GRAIN BEFORE MARKETING WITH

THE LINCOLN "NEW SUPERIOR"

WILD OAT SEPARATOR



THE LINCOLN "NEW SUPERIOR"

IS STRONG, WELL BUILT AND BOLTED - NOT NAILED

With our patented open and blank space sieves, it positively separates every wild oat seed, causing them to lie flat, and not up on end.

Our machine is built to clean any kind of grain and do perfect work. What the "NEW SUPERIOR" cannot do, no other can do. Exceptionally easy to operate, and is ABSOLUTELY RELIABLE. Made in sizes: 24, 32 and 42 inches wide, with or without bagger, and with power attachment for gasoline engine if desired.

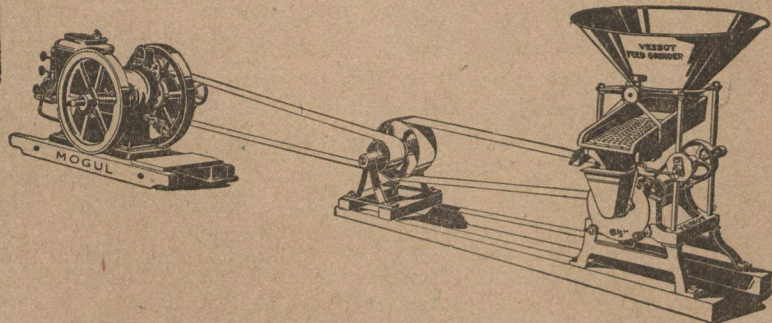
CUSHMAN MOTOR WORKS OF CANADA

LIMITED

Builders of Lightweight, High-Grade GASOLINE ENGINES for All Farm Power Work

Dept G, Whyte Ave. and Vine St. - WINNIPEG, MAN.

Fanning Mills—Smut and Pickling Machines—Vacuum Washing Machines—Lincoln Grinders—Lincoln Saws—Incubators—Universal Hoists—Langdon Ideal Self Feeders—Portable Grain Elevators—Wagner Hardware Specialties—Mountaineer and Little Giant Neck Yoke Centers—Combination Threshing Outfits.



Are You a Miller?

NO? Well, that makes no difference. You can run a Vessot "Champion" grinder just as well as any miller could. With it you can save the miller's profit on all kinds of grinding—flax, barley, corn, crushed ear corn, oats, wheat, rye, peas, buckwheat, screenings, mixed grain, or any kind of feed stuff, fine or coarse as desired.

This grinder cleans grain as well as it grinds. The spout that carries the grain to the grinder is made with two sieves, a coarse one above and a fine one below. The coarse sieve catches nails, sticks and stones, but lets the grain fall through. The fine sieve holds the grain but takes out all sand and dirt. The grain passes to the grinding plates as clean as grain can be.

And it comes from the plates well ground. Vessot plates have such a reputation for good work that we have had to protect our customers and ourselves by placing the trademark "SV" on all the plates. Look for it.

To do its best work a Vessot grinder should be run by the steady power of a Mogul kerosene engine. Then you have an outfit that cannot be beat for good work or economy. Write us a card so that we can send you catalogues of these good machines.

International Harvester Company of Canada, Limited

BRANCH HOUSES

WEST—Brandon, Man., Calgary, Alta., Edmonton, Alta., Estevan, Sask., Lethbridge, Alta., N. Battleford, Sask., Regina, Sask., Saskatoon, Sask., Winnipeg, Man., Yorkton, Sask.

EAST—Hamilton, Ont., London, Ont., Montreal, Que., Ottawa, Ont., Quebec, Que., St. John, N. B.

Cardiff KING Coal

You are sure of prompt delivery if you order your KING coal now. There's strong lasting heat in every lump and there's full generous weight in every ton.

THE CARDIFF COLLIERIES, LIMITED
EDMONTON, ALTA.

ORANGEVILLE PARK FARM

POLAND
CHINA
HOGS



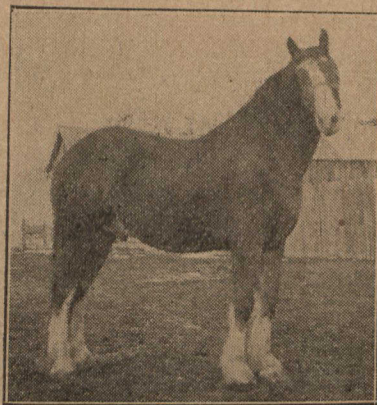
YOUNG
STOCK

Both Sexes
For Sale

J. A. KAESER, Proprietor

MOOSOMIN, SASK.

BURNSIDE CLYDESDALES



PURE-BRED

STALLIONS

AND

MARES

"COLONEL OYAMA," TWO YEARS OLD, BY "CRAIGIE LAD," BY "OYAMA."

I have a select lot of good STALLIONS and MARES FOR SALE. They possess the flat, flinty bone and good tops which go to make true draft horses.

While I do not sacrifice the breeding business for the show-ring, my horses will hold their own anywhere.

Buyers could not visit Scotland and pick up their equal at present prices.

A number of good GRADE MARES and GELDINGS at reasonable prices.

COME AND LOOK THEM OVER

JAMES CLARK

CROWFOOT

ALBERTA

Farm and Ranch Review

Volume XIII.

CALGARY December 5, 1917 CANADA

Number 23

FARM AND RANCH REVIEW

Published on the 5th and 20th of Each Month

M. D. GEDDES

Managing Editor

ANNIE A. GENGE,

Editor Home Department

EDITORIAL

We cordially invite farmers to write us on any agricultural or economic subject. We ask our correspondents to bear in mind the following rules:

1. Contributions sent to us should not be furnished other papers until after they have appeared in our columns.

2. Letters intended for publication should be written on one side of the paper only. In every case the full name and Post Office address must be given, but need not be used if so desired.

3. The regular rate paid for practical articles accepted by us is ten cents per inch printed matter, unless special arrangements have been made.

4. Manuscript rejected by us will be returned to sender if self-addressed and stamped envelope accompanies the communication.

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EDITORIAL

OUR CHRISTMAS MESSAGE

Another Christmas is almost with us and still the ever-present war cloud hangs heavy over the entire world. Never since the dawn of humanity will there be so many tear-dimmed eyes and breaking hearts as at the coming "Yuletide". It is part of our heritage that seasons of joy bring with them the keenest sorrow. The absent one is never so missed as when the "board is spread" on some festive occasion and of the many which it is our good privilege to yearly enjoy Christmas, of all others, is the "Day of Days". And so it follows that many a hallowed memory will find scope to play on the living strings of the human heart and the full flood gates of a master symphony will well-up, filling the soul, while the cloud and sunshine of days long gone by chase each other with lightning speed through the endless corridors of a throbbing brain.

To think that Christmas, the birthtime of the best thought the world has ever known, the thought that we are all brothers, should find such masses of men at each others throats is beyond comprehension, and yet it is only in so far as men and women are squaring their lives with this thought today that there is any prospect of a brighter future.

Times like the present bring out the best and the worst there is in mankind. Selfish greed and lust on one side debasing man into the class of the lower animals and chivalry, no-

bility and unselfishness on the other crowning him with that true nobility which makes it possible for the sorely bereaved ones to proudly lift their heads, realizing in a new and personal manner that living truth which He of Galilee spake when He said, "Greater love hath no man than this that he lay down his life for his friend." Sorrow abounds, but ours is not the sorrow that gropes without hope. Loved ones have died that others shall live, that freedom shall become universal and that true liberty will ultimately encircle the earth.

Although linked with the Almighty we cannot fathom the workings of His all-wise plans so cannot understand, in detail, the "why and wherefore" of this awful conflict. We know, however, that gold is purified by fire, that apparent calamities frequently prove blessings, so we lift our eyes with hope in an earnest gaze for the first glimmer of a brighter day.

Value of Individual Effort

Our hope is in the future and the future is in our hands. As intelligent beings we must realize that world improvement will never be accomplished by miracles. The Divine plan recognizes that each human life, no matter how masterful and apparently complete in itself, is but a cog in the immense wheel of progress and therefore progress is assisted or retarded by us as individuals. Permanent world improvement then can only come by individual effort—gradually leavening the human mass. This teaches us individual responsibility and there is no question that it is only through individual effort of the highest quality, reaching out and gradually permeating to the very many complex peoples of the earth, thus bringing about co-operation of the right stamp that will ring true every time, that a world peace can become assured.

The present conflict has cleared away much dross. Indications that tremendous benefits will result as the ever widening sweep of prohibition increases are beginning to be apparent; partial emancipation from the thralldom of caste and bigotry and superstition is in the air and if we could add to these the overthrow of that accursed thing Selfishness, at least in part, then the ruling power of the lives of men would become more in accord with the Divine teaching and "Peace on Earth, Good Will toward Men" become in living deeds a more real factor in world reform.

Ours is not the sorrow of those without hope; we therefore lift our hearts in confidence as we mark another milestone in the upward progress towards the ultimate goal.

CONSCRIPT LABOR FOR FARMERS

Farmers are incessantly being urged to produce more food to help fill hungry mouths while at the same time in far too many cases, their experienced helpers are being conscripted for overseas service. To us it savors too much of the old Egyptian method—making bricks without straw.

Now we feel the time has come for another form of conscription—the rounding up of all aliens exempt from overseas service to help shoulder the brunt of food production and have them placed on farms and ranches at a remuneration not to exceed that paid to our own brave boys.

Through no particular fault of ours our sons and brothers, in the common interest of a higher humanity, have responded to the call of duty and today are facing extreme privation, even death itself, while the kith and kin of those who have made this condition necessary can

walk up and down our land selecting at pleasure the kind of work they prefer at from \$3.00 per day upwards. The cost of living is daily going up and many of our best farmers and stock men are seriously contemplating giving up their present, most necessary, occupations all because of the uncertainty and high price of labor. Be it said to their credit that many farmers' sons and thoroughly experienced farm laborers were too proud to suggest exemption. Many of these men should never have been conscripted. Look at the experience of Great Britain where thousands were actually taken from the trenches either to be returned to the land or other necessary war work.

Should Reconsider

In our estimation this whole question should be reconsidered before it is too late.

Then again the Notice of Disposition of Claim for Exemption which has been sent out may be, and quite likely is, quite comprehensive to a highly trained lawyer, but unfortunately has been so framed as to render its interpretation by the ordinary individual a matter of very grave difficulty. Ambiguity in matters of such vital importance is a most serious thing.

In our report of the Western Canada Live Stock Union appearing elsewhere in this issue may be found a strongly worded resolution which was forwarded to Sir. R. L. Borden dealing with this most important subject. It also gives us pleasure to reproduce in this issue a letter by H. W. Wood, President of the U.F.A. to Sir R. L. Borden dealing with conscription.

Self preservation demands a more liberal supply of farm labor and the best method we can suggest is for the government and military council to arrange some plan on a basis of equitable distribution whereby all alien labor can be utilized where it will be of most value to the country at the same rate of remuneration that our own men receive who are doing their bit overseas.

We understand that in Great Britain the Ministry of National Service and the Home Office have decided that enemy aliens who are not in internment camps are to be given a choice between national service and internment.

Far too many young foreign laborers who have been earning unusually large wages at railroad and other employment this summer are now loafing around poolrooms and having a good time in general apparently absolutely care free, while our own loyal young men are fighting for world freedom.

Then to go farther men of our own kith and kin engaged in non-essential occupations should be utilized as far as practicable to assist in the production of food stuffs and other lines necessary to bring the war to a successful termination.

HORSE FLESH—A WAR TIME MEASURE

Since attending the recent convention of the Western Canada Live Stock Union held in Regina and hearing while there from J. D. McGregor, representative of the Dominion Food Controller, and others who had recently attended a special conference at Ottawa to discuss the serious food shortage as it affects the allies, particularly meats, the writer has given the question of utilizing horse flesh as a war time measure, for export purposes to the allied countries now using it, a good deal of study.

We know the general sentiment of Canadians regarding horse flesh for human food and so naturally would not broach a question of this kind unless there was some most vital reason for so doing.

We are told by those who have made a study of the meat situation and whose opinion is considered to be invaluable that the shortage of meats, particularly fats, is positively alarming.

In our last issue appeared a somewhat lengthy editorial entitled "Serious Shortage of Hogs" and also another article by the writer entitled "Greater Hog Production Campaign" as well as an exceedingly strong paper by G. H. Hutton, Vice-President Canadian Swine Breeder's Association and Supt. Experimental Farm Lacombe entitled "Increased Production of Hogs for 1918." These were but the forerunners of a "Greater Hog Production Campaign" which is being started all over Canada to help relieve the meat famine condition which we are facing. At the recent Western Canada Live Stock Convention, already referred to, the question of meat shortage and how best to overcome it, by increased production, cheaper feeds and more help, was the main item of discussion. A report of this convention appears elsewhere in this issue.

Situation Most Serious

These things prove to those who may not have as much information as is available to us, the real seriousness of the whole situation.

Pork, more pork and still more pork, is

what is really wanted and strenuous efforts are being made to see that a large increase of this most essential food for war purposes is made available, as early as possible next year. But what about the intervening months? Are we going to practically allow many of the inhabitants of France and perhaps some of Britain to actually starve? We are told the situation is so serious that it is not beyond the range of a probability that what we have stated might actually occur.

Horse flesh although not so desirable as the flesh of several other animals, is palatable and nourishing, and has been in use, as human food, in France, Belgium and Italy, for a considerable time and in limited quantities is being used in Great Britain and the U.S. today.

Throughout Western Canada and the Western States there are a great many range bred horses which in the fall, when grass is plentiful, are in good condition. Naturally quite a number of these are non de scripts which in many cases are not in demand so if offered for sale would not command a price nearly commensurate with what might be expected if there was a market opened up for horse flesh. Then there are blemished horses of other classes that would find a ready market through this channel so that it should prove of benefit to horse breeders through weeding out inferior stuff at

fair prices while at the same time greatly assisting the meat shortage and that is the point we wish to emphasize.

Horses dress out from 40 to 47 per cent. carcass to live weight and the average high priced cuts are less than in cattle.

Free from Disease

They are far more cleanly in their feed habits than either swine or chickens and are said to be entirely free from tuberculosis and the parasites that infest pork. Then as there is no question as to the wholesomeness of the meat we are rather forced to admit, when we begin to study the subject, that prejudice largely has delayed the use of horse flesh on this continent. War conditions have the faculty of breaking down old time customs and what may be perhaps, considered foolish notions and unreasoning prejudices are being forced to give way before the pressure of common sense in food requirements.

We feel that this is of sufficient importance to be looked into very carefully by the Dominion Department of Agriculture. There are naturally other good reasons in connection with this suggestion which for lack of space could not be incorporated in a short article, of which the leather shortage is one.

We will be very pleased to have our readers' views, for and against, for publication.

POST-WAR AGRICULTURE

By J. B. REYNOLDS, B.A.,

President Manitoba Agricultural College

WHAT will happen to any particular industry in Canada when peace is concluded, war-industries cease, and the soldiers begin to return and look for employment—is beyond the power of any person to foresee.

One thing is clear, however. Necessity will force the nations of the world to turn to the more essential industries, and of these, agriculture is the chief, for upon agriculture we depend largely for our supplies of food and clothing.

Agriculture, then, must continue. In view of the facts, the question is, what phase of agriculture in Canada should be emphasized—grain-growing or stock raising?

There is no doubt that the raising of grain for human food is vastly more economical than the raising of grain to be fed to cattle, sheep or swine, these in turn to be consumed as human food. A steer converts into meat only three per cent. of the food he consumes. Ninety-seven per cent. is used in maintaining the heat of the body, in furnishing energy for the animal activities, or passes off as excrement. A hog converts into meat twenty-four per cent of the food it consumes. If we used directly as human food the wheat, the oats, the rye, the barley, the turnips, even the alfalfa that we raise, many times the number of people could be supported on an acre of land as could be supported by the beef or the pork fed on that acre.

That is the way in which the Chinese have solved the problem of food production—a dense population forced to subsist on a vegetable diet.

But for us and for the peoples of Europe the question is not so simple. Wool must be raised somewhere, somehow, to make clothing. Hides are needed for leather. Grain and vegetables do not furnish all the essential qualities of food to which we have been accustomed—we have been used to animal fats to balance our food. The British are a meat-eating people. Our system of agriculture requires the excrement of animals to fertilize the land, and in our rotation of crops clovers and grasses enter, that are serviceable only as animal foods.

Whether grain is raised to be sold directly off the farm, or to be fed to live stock, has depended and will depend upon the relative prices of grain and of live stock or live stock products. The deciding factor is not the law of supply and demand primarily, but the cost of production in relation to the price obtainable

by the producer. If the law of supply and demand were the deciding factor farmers would not need to be urged, as they are now vainly urged, to raise more live stock. The demand for live stock products, meat, wool, leather,—has increased, and the prices for these products have increased in even greater proportion. But the supply has been steadily diminishing, not only in Europe, but in Canada. It must not be supposed that farmers are blind to their own interests, or deaf to the calls of duty. The facts are, the cost of raising live stock has kept pace or even outstripped the prices obtained for their products, while the difficulty also has increas-



ALFALFA MEANS MORE LIVE STOCK

ed, from the scarcity and poor quality of labor.

Nevertheless, though the farmers of Canada are neither blind to their own advantage nor unpatriotic, they may fail to look far enough ahead, or may fail to inform themselves sufficiently of present tendencies. Immediate advantage may point one way, while future advantage may point another way.

What of the Grain-Markets After the War?

When we speak of markets and prices, it is understood that associated factors are also in our thoughts—namely, the demand which helps to determine prices, and the cost of production, which, in relation to the price, encourages or discourages production. It is not certain that grain prices will remain high for long after

peace is concluded. It is probable that grain prices will drop back to normal soon after. It is more than possible they may drop below normal. The factors determining post-war prices will be, (1) the poverty of the peoples of Europe and their inability to buy anything that is high-priced, (2) the releasing, upon the markets of the world, of supplies that have been unable to find an outlet during the war, (3) the quickness with which the normal world-supply may be restored.

All of these three factors must operate after the war, in some degree, and will tend to lower the prices of grain. There will be no doubt of the poverty of the peoples of Europe. There is pretty good evidence of a heavy storage of wheat. It is said that 300,000,000 bushels of wheat are stored in Australia. And one good crop may restore a normal supply of the grains of the world.

It is different with live stock. Of course, the first factor, the inability to buy, will operate equally here. But the supply of live stock has been very seriously diminished by the war. There has been no hoarding of live stock, voluntary or involuntary. And while the numbers of live stock are easily and quickly depleted, the re-establishment of herds and flocks is a matter of years.

The Depleting of Live Stock

It is estimated that, since 1915, there has been a decrease in the world's supply of meat-producing animals of 115,005,000, as follows:

Cattle	28,080,000
Sheep	54,500,000
Swine	32,425,000

Since 1914, our Canadian herds have been diminishing. There has been a decrease of 31,000 milch cows, 38,000 other cattle, 49,000 sheep, and 921,000 swine.

At the same time the United States increased their supply of cattle by over 7,000,000, and of swine by over 6,000,000.

Canada a Light Exporter of Live Stock and Live Stock Products.

In 1912, Mexico exported 4½ times as many cattle as Canada, Argentina 5 times as many sheep and nearly 400 times as much beef as Canada. Denmark exported over 4 times as much pork and pork products, and Australia 3,000 times and New Zealand 4,000 times as much mutton.

Canada's population, compared with that of the United States, is about 1 to 13. In 1912, Canada's exports of beef and beef products, compared with those of the United States, were 1 to 90; of pork and pork products, 1 to 16; and of mutton 1 to 70.

Compared with the United States, then, be-

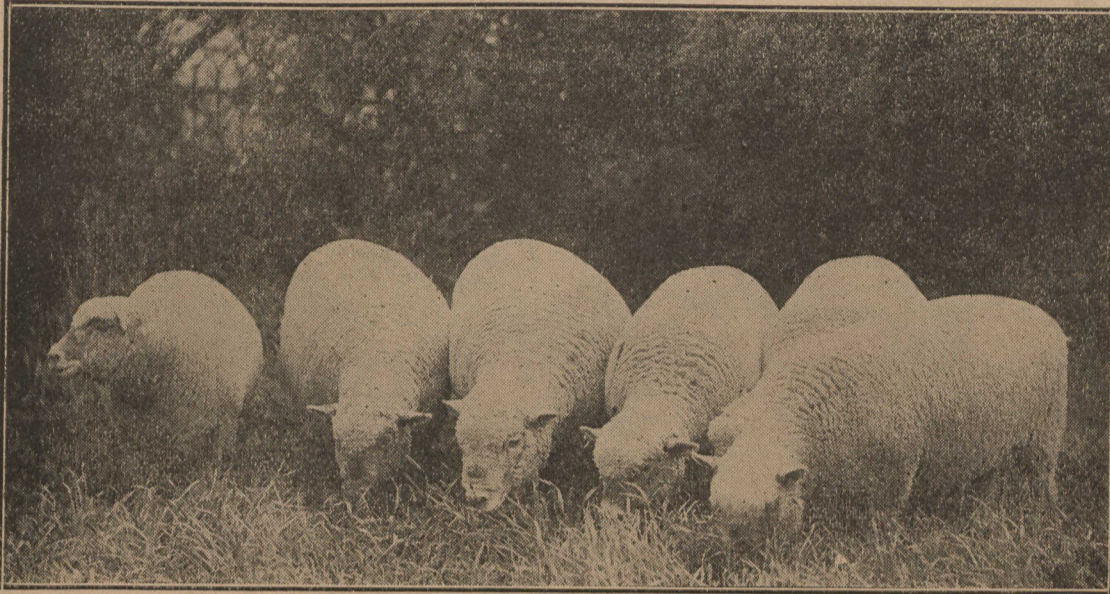
stock. How much of that will Canada be able to supply?

There will apparently be a greater relative demand for live stock than for grain for some time after the war. The price of grain may fall without a corresponding fall in the cost of production. But if the price of grain falls the

level after the war. I do not know. I do not think anybody knows. But a comparison of prospects for grain-growing and for stock raising, seems reasonably to point to a better prospect for stock-raising for those who have the means, the courage, and the foresight to prepare. There are many Western farmers in localities where stock cannot profitably be raised, from lack of water or pasturage. Grain-growing is the established practice in Western Canada, it is more generally feasible, and perhaps to most Western farmers, more attractive than stock-raising. But for those who can and will make the venture, stock-raising offers attractive prospects.

Some objections, from the farmer's point of view, still stand. He has not the capital necessary for establishing herds and flocks, and if he had, he cannot find sufficient trustworthy help to feed and care for the stock.

Since this is a national question, since the prosperity of Canada as a nation will depend upon her agriculture being able to meet demands, the nation must help to overcome the difficulties, which, after all, are not of the farmer's creating. Capital must be found willing to embark on this enterprise, on reasonable terms of interest and re-payment. Labor must be organized, now, and if necessary conscripted. It is a sorry comment on our national economic and fiscal policies that for the last thirty years the farm has found it increasingly difficult to compete in the labor market with other industries. We have had numberless promises from the political parties that this shall be reformed, more or less indifferently, but the only thing to do in the present juncture is to reform it altogether. If the Parliament of Canada is to do justice to agriculture, it must enable agriculture to enter the labor market, the money market, and the implement market on equal terms with other established industries.



"The Golden Hoof" is truly golden these days.

fore the war we had not measured up to our possibilities in live stock production. And since the war we have allowed our supplies to diminish, while those of the United States have increased.

It is estimated that after the war Europe will require 16,000,000 to 20,000,000 head of live

cost of producing live stock will fall likewise. A double argument then would seem to favor increased live stock production in preparation for post-war conditions—the argument based on demand, and the argument from cost of production. I do not wish to be understood as saying that grain prices will fall to a discouraging

OUTSIDE A STORY OF THE FOOTHILLS

By ROBERT J. C. STEAD

Author of "The Homesteaders," "Kitchener and Other Poems," "Songs of the Prairie," "The Fall Jumper," etc.

AT the crest of the hill the young man paused, flushed with the labor of his climb. A mild breeze from the southwest pressed against his cheek, and he threw out his chest to drink of its exhilaration. The big red sun was about setting; already one broken fang of the Rockies pierced its golden disc, and high in the western heaven a radiance of glory played across a sky of deepest silver. A soft, velvety blue cushioned the shoulders of the distant mountains, and nearer the shaggy sides of the valley lay in thick and gathering shadows.

For a full minute he gazed at the scene outspread before him, and, even as he watched, the fang of the mountain cut its way deeper into the descending orb. It was a moment such as travelers cross a continent to know, and he lingered in the intoxication of its beauty.

"Splendid, isn't it?" said the girl, and Gordon turned, astonished. He had thought himself alone with the evening grandeur.

"It was a shame to break the spell," she continued, in a soft, serious tone, "but I couldn't share it without saying so. Really, I didn't see you until it was too late, and then it would have looked very foolish to have galloped away, wouldn't it?"

"Very foolish—and unnecessary," he agreed. "You may look at my sunset tonight, and I will look with you." The last rays were beating in her face and he frankly raised his eyes with them. She sat astride her horse, all the grace of youth and health in her lithe young body, her face turned fairly to the west and the saffron sunlight bathing her brown hair. Her lips were slightly parted, and the glow in her eyes was not all of the sunset.

"Your sunset!" she exclaimed at length, as though the remark had passed her and come back. "I had almost begun to think it was mine. Every evening for—oh I won't say how many years, this sunset has been mine."

"Then you won't grudge it to a poor city chap who never saw it—like this—before?"

They looked westward, both of them, but even as they looked the last segment of fire sank behind the velvet of the mountains.

"No, because you will not desecrate it," she said. "Because sunshine is more to you than heat and light—something more, than gets under the surface, isn't it?"

He looked up again with his quick, frank eyes, and thought her brown and beautiful in the calm afterglow. He had seen beauty, many a time, dressed for exhibition, but here was something more deep, more subtle, more sincere. He not only saw beauty; he felt beauty, breathed, absorbed it. Suddenly he removed his hat. He had forgotten the commonplace courtesy when she first surprised him.

"You must think me a ru—a boor," he said. "My name is Gordon, George Gordon."

"I am so sorry you told me," she replied, with a note of teasing in her tone, "I had already christened you 'The Man with the Soul.' It was a pleasant conceit, and you have rather spoiled it."

"Will you spoil my conceit too, and be avenged?" he urged.

"No," she answered. "Choose a name to suit yourself."

"Then I will call you Elsie," he returned, with sudden boldness.

She leaned toward him and laughed a low, musical laugh. "That's her name," she said; "and you're homesick, just a little homesick, aren't you? When a man is away from home, and a little lonely, every woman is a reincarnation of the woman in his thoughts, isn't she?"

"Not every woman," he returned, but he was glad the twilight hid his color. The name Elsie had been wrapped close about his heart. He had torn it out and cast it away, but here, on a sudden impulse, it had sprung again from his lips, and in a new creature was centered all its old deification.

"Yes, I will call you 'The Man with the Soul,'" she repeated, after a silence. "I will have that to distinguish you. My acquaintances are mostly men—decent fellows, handy with rope and fists, and not too slow with either. They'd fight for me quick enough, if that's a virtue. But in twenty years no one of them ever rode up this hill to see the sun set. Of course they would come if I asked them; they would come for me, not for the sun. So every clear evening I ride up here by myself. It has been the single link between me and the outside."

Gordon wondered at the depth of this foothill girl; wondered how many of his city friends could have grasped and presented this truth so simply; wondered, too, whether her frankness was born of sudden friendship or detachment. He wondered how Elsie—

"But you get letters, surely, and books, and magazines?"

"Not from the Outside," she answered. "Books and magazines are printed in the cities. The stories are of little things. They take themselves with hopeless seriousness. With an occasional exception—they have been conventional so long—"

"Indeed, some of them are far from conventional. They are rather shocking—"

"But it's conventional to be shocking. Don't you know that? The unconventional thing is to be simple, sincere, and unshamed; to meet and talk—well, as we have met and talked."

She swung herself from her horse and dropped lightly to her feet. They were in the valley, and, although the light of the long even-

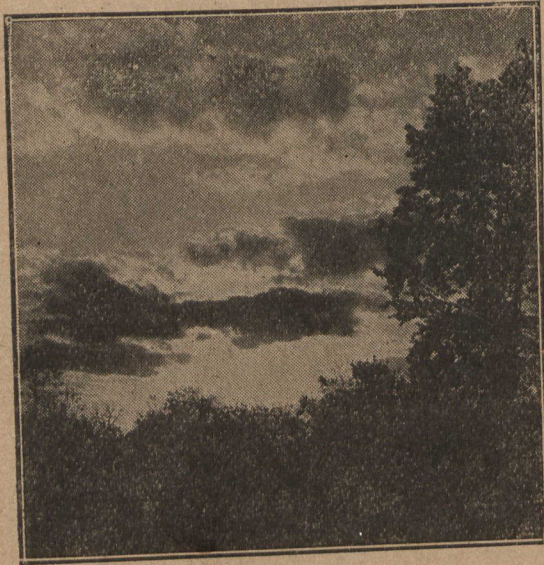
ing still streamed far into the sky, it was growing dark about them.

"I should like to know you," said the young man, fervently.

"Why?"

"Because—because you know there is an Outside."

"Yes, that is it. I do not know it, but I know it is. And you know it is, or you would not have troubled climbing the hill to look for it. We have a rare and mutual knowledge."



"For a full minute he gazed at the scene outspread before him"

She started back down the hillside, and he walked by her stirrup, unbidden and undenied.

"But tell me your name?"

"Have I not told you a great deal more? Do you not know me much better than if I had simply said, 'I am Miss Somebody?'"

"Yes, you have. And yet—I would like to know your name."

One by one the stars came out. The faintest breeze stirred the spruce needles. The horse, finding his rider took no interest in his progress, had stopped and was browsing by the roadside. Presently he pursued some juicy herbage in among the trees, and a limb brushed against the girl's shoulder. She slipped her foot from the stirrup and dropped lightly to the ground.

"He won't go far," she said to her companion. "But I forgot; I was taking you to supper. You must be hungry."

"No, I'm not. And I couldn't be your guest tonight. It wouldn't be—quite in order."

"Why?"

She had an inconvenient habit of taking nothing as stated. He found that a mere assertion only led him into deeper explanations.

"Well, you know, it is scarcely customary for young men to accept invitations from ladies with whom they are not acquainted—whose names they do not know."

"Neither is it considered 'correct' for young people who do not know each other's names to engage in long conversations, chaperoned only by the spruce trees and the stars."

"That is true," he admitted. "It is a defiance of those conventions with which society doth hedge itself about, in order that it may properly classify its scandals. And yet, although trained to observe those conventions, tonight they seem strangely crude and unnecessary."

The outline of a dead tree by the roadside beckoned to them through the gathering dusk. "Sit down and tell me about yourself," she said.

The young man sketched his quite ordinary past. He had been born in the country, and had faint recollections of the sights and sounds of farm life that had left their impress upon the delicate receptiveness of infancy. His boyhood and manhood had been the life of the city. He held a minor position in a company, and not so long ago had cherished ambitions of a strenuous career crowned by what men call success. But of late he had thought more deeply of the purposes of life; he had begun to question the real value of those things which were commonly held to be of first importance. A grey hair here and

there reminded him that Time was moving on; already the day was looming before him when he would no longer be able to call himself young. The first realization that the young must grow old had crashed into his brain with paralyzing effect. He now accepted the fact calmly, but the knowledge placed a new value upon life. The days were leaden-footed with the monotony of business, yet he was amazed how the weeks and months flitted by to join the dead ages of the past. And continually the cry was in his ears, "Get out, get out; you are wasting yourself. Seek the open spaces; dawn, and sunset, star-light, moonlight, mountains, storms, water—life—life!" And he had half answered. His brief vacation he was spending, not in seeking Pleasure in the beaten haunts, where much hunting has made her wary, but in calming the mind to that receptive attitude which never fails to tempt her.

And she told the story of her life; briefly, simply, the simple life of a rancher's daughter, companioned only by a few good books, a few brave men, and the great, broad out-of-doors which had become so much a part of herself.



Plum trees in blossom at the A. Mitchell Nursery, Coaldale, Alberta.

But when she touched on present times her voice stopped, and he knew that she was withholding that which her soul most clamored to reveal.

"Tell me—the rest," he said, gently.

"Yes, there is more," she continued, after a pause. "My mother is dead; my father is growing old, and he is determined that I should be 'settled in life,' as he calls it. He has chosen a young man of the ranches. We are to be married—soon."

"The old villain," muttered Gordon. "And you are submitting?"

"Why not? He is a man after my father's heart. He is honest and kind; strong and fearless; a man you would admire at sight; every inch a splendid—animal!"

"You know what I mean. He has not seen the Outside, and I cannot make him see it. If he comes with me to the hilltop it is to be with me, not to look at the sun. He will be true, as I will be true, but he will never understand me; he can never share life."

"But if you met someone who could—who would—share in your real life, who understands you at least in part, would you still be bound? Would you wreck yourself to satisfy the mistaken notion of your father? Would it not

be really kinder and altogether better to follow your own path?"

"A promise is a promise—"

"But a mistaken promise—"

"Is still a promise. The world rotates because it is faithful, though so many at its breast are false. Suppose the sun should change his mind and seek another harem of planets?"

She shivered slightly and sprang to her feet. He was beside her in an instant.

"I have sat too long," she said, and she glanced from side to side hurriedly, as though in fear. "I must go home."

"But you will see me again? You will not refuse to see me again?"

He could feel her eyes through the darkness. "I will see you again," she said, simply.

She extended her hand, and he took it in his. It was not until that moment that he knew. In a sudden ecstasy he would have clasped her to him, but she held him gently away.

"No, it must not be," she said. . . . "I will go now, please."

Spurring her horse, she galloped into the darkness.

The next evening Gordon again watched the sun set from the hilltop. He saw the fang of the mountain pierce the crimson ball, and he watched it settle slowly behind the blue velvet cushions. For a moment the mountain crest stood burnished in gold; then the light faded from it and the colors fled far up the sky. He turned to speak to her, but she was not there.

The next night he came again, and the next, and the next, and the next. A week passed. The second week was nearing its close, but she who had so wondrously read the secrets of the Outside came not. On the last night before his return to the city Gordon again mounted the hill, with heavy steps. For the last time he watched the glorious sunset; as he watched he heard the clatter of horse's hoofs, and knew that a rider drew up beside him. For a moment he denied himself the delight of looking around. When at last he turned he saw a bronzed and handsome man, and the words leapt up before him: "Every inch a splendid—animal!"

When the stranger spoke his voice shook, and Gordon noted a great sadness in his eyes.

"I guess you won't never see her again, friend," he said.

"What? She is not—"

The horseman bowed his head. "Caught a chill, somehow," he said at last. "None of us thought it was nothin'. First thing we knew—noomownyuh. Then it was too late."



A fine team of young Clydesdales, showing quality and substance in an unusual degree. To be sold at P. M. Bredt & Co.'s big Combination Sale at Calgary, December 11th and 13th.

Gordon placed his hand tenderly upon the stranger's arm. "She told me—about you," he said.

There was a moment's silence. "Twasn't never to be expected," he said. "She was too good—she was of a different world from me. I'm thinkin' p'raps she was more like you. She wrote you a little letter before she went—sealed it with her own lips, and made me promise to give it to you here at sunset. She knew you'd be here."

He drew a small envelope from his pocket. Gordon opened it as a sacred thing and turned the letter to the light.

"I am waiting for you—Outside," it said.

Tractor Ratings—Is There Any Kick?

ON being asked to discuss the farm machinery problem, I decided to deal with the question of Tractor Ratings. Undoubtedly there is a great deal of misunderstanding connected with this subject. The solution is that every man who owns a tractor ought to understand that since 33,000 foot-pounds of work per minute constitute one horsepower, he can readily calculate the power of his engine if he knows the distance travelled in a minute and the pull in pounds. It is just as easy to make this calculation as it is to know how many dollars 1789 cents make, when you know that there are 100 cents in one dollar. Every district representative ought to be able to test and demonstrate this power problem in a practical way. Every short course in Agriculture is incomplete if it does not take up simply and clearly this most important point in the power farming business. Owners, and prospective owners, should attend any and every gas engine short course they can. Learn more about "why" certain things must happen and then they can more easily understand "how" to fix them.

Make Sure Before You Purchase

There is an opinion abroad, among farmers in some districts, that implement dealers are crooks and are trying to do them. Nothing is further from the truth as far as the manufacturer is concerned. If they have an excessive duty to pay that is not the fault of the manufacturer. The following information is taken word for word from a catalogue and it is mighty good advice. Follow it and you will be satisfied with your investment in a tractor.

"When you buy a horse you ask how old he is, and then you look at his teeth to see whether the facts bear out the answer that you get. You enquire about his weight and then drive him across to the scale to make sure. You ask about how he travels and then hitch him up and drive him around to make certain that he has the kind of action that is claimed for him. You know what a good horse is and you investigate the facts behind the claims that are made.

"Buying a tractor is just like buying a horse. Of course, men have not had so much experience in buying tractors, but by careful investigation and comparison you can find out what points are necessary to make a good tractor, and then carefully investigating the claims of each machine you can determine the tractor that has the features you want."

Design and Construction of Tractors

You study the design and construction of a tractor from two points of view—first, the design and construction of the individual units, and, second—the results of the combination of these into the complete machine.

There are nine units in every tractor:

- | | |
|------------------|---------------|
| Motor | Clutch. |
| Fuel System. | Transmission. |
| Ignition System. | Frame. |
| Oiling System. | Wheels. |
| Cooling System. | |

You should investigate the design and construction of each of these nine units and then consider how well they are combined into the complete tractor to produce these nine results:

- | | |
|---------------|-------------------|
| Durability. | Speed. |
| Reliability. | Economy. |
| Simplicity. | Accessibility. |
| Light Weight. | Ease of Handling. |
| POWER. | |

A chain with a broken link is useless. A boat with a hole in it will sink, even although the rest of the boat may be all right. So it is with the tractor—if any part fails, the whole tractor fails."

Importance of Power

A correspondent writes: "I have a tractor running a 24x42 in. separator. The en-

By PROF. J. MACGREGOR SMITH
of the College of Agriculture, University of
Saskatchewan, Saskatoon

gine pulley is 14 in. and runs about 600 revolutions per minute. The separator runs about 1,000 revolutions per minute. It has a bagger and blower. The belt slips off and will not begin to drive the separator. Would it do any good to lag the pulley of the engine?"

The answer is very evident. The engine has not sufficient power to drive the separator. The important issue is, Who Is to Blame?

The fall of 1917 has been a better threshing season than that of 1916. But the above question, sent by a small thresherman, represents a state of affairs which has been a source of great confusion and trouble, and, indeed, always will be until something is done. The answer is that both the manufacturer (or his representative, the dealer) and the farmer are at fault and all are equally desirous of finding a solution to the problem. The ever-increasing demand for the small tractor, which is flooding

in this line and no consideration is taken of the power which must be lost in transmission of the power from the motor to the belt pulley, or the drawbar. Other cases may have been due to the failure to make proper allowance for a change from gasoline to kerosene burning equipment. It would seem that the tractor interests, in the long run, would profit by conservative and uniform ratings—that the practice of overrating is shortsighted.

Cases Illustrating the Point

From this general discussion let us proceed to see what is the present situation regarding tractors and threshing machines. A man goes to a dealer and asks: "How many plows will your engine pull?" He might as well ask: "How long will your engine last?" as far as a definite answer is concerned. It may take 500 pounds or it may require 1,500 pounds to pull a 14 in. plow in breaking, depending on the kind of soil, condition of the soil, adjustment of the plow and so forth. But on the other hand, should the farmer ask, "What drawbar horse-



Two Horse Power—No Trouble in Rating.

the West, just as its big brother did a few years ago, makes the situation acute. Before we suggest a remedy let us discuss some aspects of the situation.

Prior to the introduction of the internal combustion engine there was practically no confusion concerning tractor ratings. While steam tractors were underrated, they were all underrated in about the same proportion. The fact that there was practically no trouble on this basis shows that the farmers would soon adapt themselves to any method of rating which might be decided upon unanimously. Provided all manufacturers conformed to the chosen standard whatever it might be. Reliable manufacturers would be eager to do this, in fact they have done so already, and the rest would soon be eliminated. In rating gas tractors no attention was paid to the customary method of rating steamers, gas tractors were rated in brake horsepower (B.H.P. = power developed at the belt for threshing, grinding, etc.) and Drawbar Horsepower (D.B.H.P. = power developed at the drawbar, the power available to pull a plow or a road grader, etc.) It is also a curious fact that while to the makers of steam engines there was a real, or supposed, advantage in underrating, with the gas engine manufacturers we find the machines rated at their actual capacity. Cases of overrating may have been due to the fact that some tractor concerns get their motors from a plant which specializes

power has your engine?" that is, how many pounds can it pull (say 4,000) at the rated speed (say 2 miles per hour), then he can get a definite answer. Because:

$$\begin{aligned} & \text{Pull in pounds X Distance in} \\ & \text{feet per minute} \text{ --- } \\ & 33,000 \text{ (foot pounds of work} \\ & \text{per minute required to make} \\ & \text{one horsepower)} \\ & \text{---} \\ & \text{---} = \text{Horsepower of engine} \end{aligned}$$

In the problem:

$$\begin{aligned} & 4,000 \text{ (pounds) X } 176 \text{ (feet} \\ & \text{per minute)} \\ & 33,000 \text{ (one horsepower)} \\ & 704000 \\ & \text{---} \\ & \text{---} = 21\frac{1}{2} \text{ D.B.H.P.} \\ & 33,000 \end{aligned}$$

(This part of the problem might be discussed at greater length if readers were interested in the term HORSEPOWER and what it really means).

It may be that the owner of an engine goes to a company for a separator and asks: "What size of a separator shall I get for my 12-25 engine?" The dealer replies I will guarantee that our engine rated at 12-25 horsepower will run our 22 in. x 36 in. separator. The man buys, takes it home, starts threshing and finds he has not sufficient power. The result is a black eye for both engine and separator in that community, and worst of all a discontented owner.

Better Judgment Needed

It is well known that farmers as a class are guilty of overloading their power machine, the hired man included. The writer had his attention called to a case where a man took a tractor home, being told that it would pull three plows, which it did, in spite of the fact that the operator who was starting up the outfit put the plows down 10 in. so that the hubs of the coulters were dragging through the ground. Was that good reasoning? Another case in which a separator capable of threshing 1,000 bushels per day was plugged and plugged to such an extent that it only threshed at the most 700 bushels per day. An expert was called and the result was that the man got a good rubber belt in place of an old canvas one, used good common sense in feeding when the separator easily handled its rated capacity. Are there any men in your community who use their machinery this way and then kick at the cost of upkeep? Does that sort of care pay? No.

The Proposed Solution

When an engine is sold, the power it is capable of developing must be clearly stated. When a separator is sold the power required to operate it under normal conditions must also be stated. If these statements were given conscientiously a cloud would be lifted from the power problem. In some provinces according to law the company must state the number of plows their engine will pull. Again I say this question cannot be answered definitely. But the number of horse power the engine can develop can be stated definitely, and with a dynamometer can be accurately tested. Each Province could have one or two dynamometers and disputes could be easily settled if an engine did not do all that was claimed for it. Should the engine develop its rated capacity let the farmer pay the expenses of the test, if it did not then the company would have to take it back. This would have to be done within 10 days from the time the engine was received. This would be a

necessary condition to protect the manufacturer as far as the power of the machine was concerned.

The good engines would easily hold their own and the others would trouble us for a very short time. All engines are tested at their respective factories and in the case of a dispute about the brake horsepower, an engine could be taken from stock and tested at some central point, the Colleges for instance.

Local demonstrations show what an engine does in a certain kind of soil and give an approximate answer as to the number it can pull in that community. Some companies are to be commended for the educational work they are doing, and if other companies did likewise they would save thousands of dollars otherwise paid out to keep an expert staff in the field, and at the same time many farmers would be saved loss through unnecessary delays.

The scrub stallion is having a hard time to exist, let the scrub tractor have a harder time. We want only the best engines in the hands of good men.

THE HOPE AND THE OPPORTUNITY

NO one travelling over the vast Western Prairies and who has studied Human Nature, Agriculture, and Economics generally, and who has a general love for and interest in his fellow creatures, there will come some such thoughts as these:

"How vast it all is and how terrible must be the isolation of those who have ventured to wrest a living from nature on these vast prairies." The utter impotence of each individual denizen of the prairies working as a separate unit is brought forcibly to mind. A closer acquaintance with developments which have taken place, however, and with actual conditions as they exist will reveal a great hope and an unprecedented opportunity.

As one passes on through the prairie towns there are strong evidences that great forces and great minds have been at work, that great organizations have sprung up and that at least the greater minds have sensed the wonderful opportunities awaiting those who will organize to take advantage of them.

One hears of the Grain Growers' Associations, the United Farmers of Alberta, the Agricultural Societies and Women's Institutes that have accomplished such great things already, and is led to wonder if there can be a single farmer's family, one member of which at least, is not a member of one or other of these organizations.

Then comes the realization that Agriculture is the basic industry of the world, the foundation upon which we all stand and upon which our very existence depends; and that notwithstanding the mighty efforts which have been made, it is still the least organized of all industries.

A very casual study of Agricultural Conditions will convince the unbiased that the farmer does not receive a fair share of the reward of his labors, notwithstanding all that has been attempted and accomplished by existing Agricultural organizations.

In the last decade our Canadian Prairie farmers have accomplished a great deal in the way of Agricultural co-operation and attempted more. The marvel is that with such splendid efforts made by the comparatively few who have been leaders and who have worked unselfishly and courageously in the face of the greatest discouragements that more has not been accomplished.

Some will say, "It is quite useless to appeal to the large majority of farmers, they are alike the world over." This is not so. Let us look to Denmark and what do we see? The Danes have actually risen to the occasion, urged on perhaps by poverty, they have long since thrown off individualism and taken on not co-

By T. A. BENSON, EDMONTON,
Dominion Poultry Representative for Alberta

operation but the true spirit of co-operation and coherence; they stood together as one man with eyes riveted to a distant goal.

Not even the most alluring temptations could induce them to turn aside, not even the greatest discouragements could shake their faith in the future and EACH OTHER. It was "Each for all and all for each". They won the battle, they lifted themselves from chaos to organization, from poverty to plenty, from inferiority as a class to a dominant position in the State,

hours, whereas, combination with them is the only hope.

There must be community spirit and fraternization which must reach out beyond the limits of the community to the broader provincial and National fields.

Every farmer should strive to educate himself as perfectly as possible in all phases of his business. Just as those engaged in all other industries make a point of doing, he should endeavour to practice thinking constructively. Attending Agricultural Meetings and Social Meetings should not be regarded as time wasted but they should be attended by all farmers in the



It is difficult to say which feature of this picture is more beautiful, the wonderful scenery on the Elbow River at Golden West Balgrogan, or the Shorthorn cattle that are enlivening it

from a terrible condition of unrest to contentment of mind, and happiness and comfort in the farm homes.

This is the bright hope to which we may look, and the opportunity is here on our vast prairies calling to every individual farmer to throw off individualism and take on the spirit of co-operation and coherence.

Every farmer should study the history of the Danish farmer and he might do well to look even nearer home and study what has been accomplished in that little "Denmark of Canada", Prince Edward Island.

So long as each farmer continues to think within the limits of his own home and farm only, he will be in competition with his neigh-

community, in a spirit of open mindedness with a determination to help in solving all problems effecting farm activities or community welfare which may be brought up.

The writer once listened to a very able speaker at a meeting of prairie farmers, their wives and children, who commenced his address very foolishly by warning the farmers against listening to men who did not come to farmers' meetings, as he came, with the evidence in his appearance that he was fresh from the farm.

This gentleman entirely missed the point that such men had more than probably spent many years on a farm and had since had an opportunity of studying the farmers' difficulties in a calm and unbiased state of mind and with

a wealth of sympathy, respect and good feeling towards farmers as a class. Agricultural meetings and all meetings at which problems effecting community welfare are likely to be discussed should be attended especially by those farmers who make a point of never attending such meetings.

The greatest pride should be taken in all affairs effecting the welfare of the community

well to realize that in the schools may be found the great hope for the future.

They should see to it that the true spirit of co-operation, pride in the community and its welfare, and trustfulness of each other, are planted in the minds of the children and carefully cultivated and nursed to maturity.

The parents in the farm homes should carefully study this matter, thus obtaining the true

paratively small number of instances does it strike home that opportunity's call is to each and all, young and old, strong and weak. A call to lead or to follow faithfully, unswervingly.

This great problem so vitally affecting the immediate and distant future of the Prairie homes, should be continually discussed and kept before the children in the homes. Every single individual must take some part.

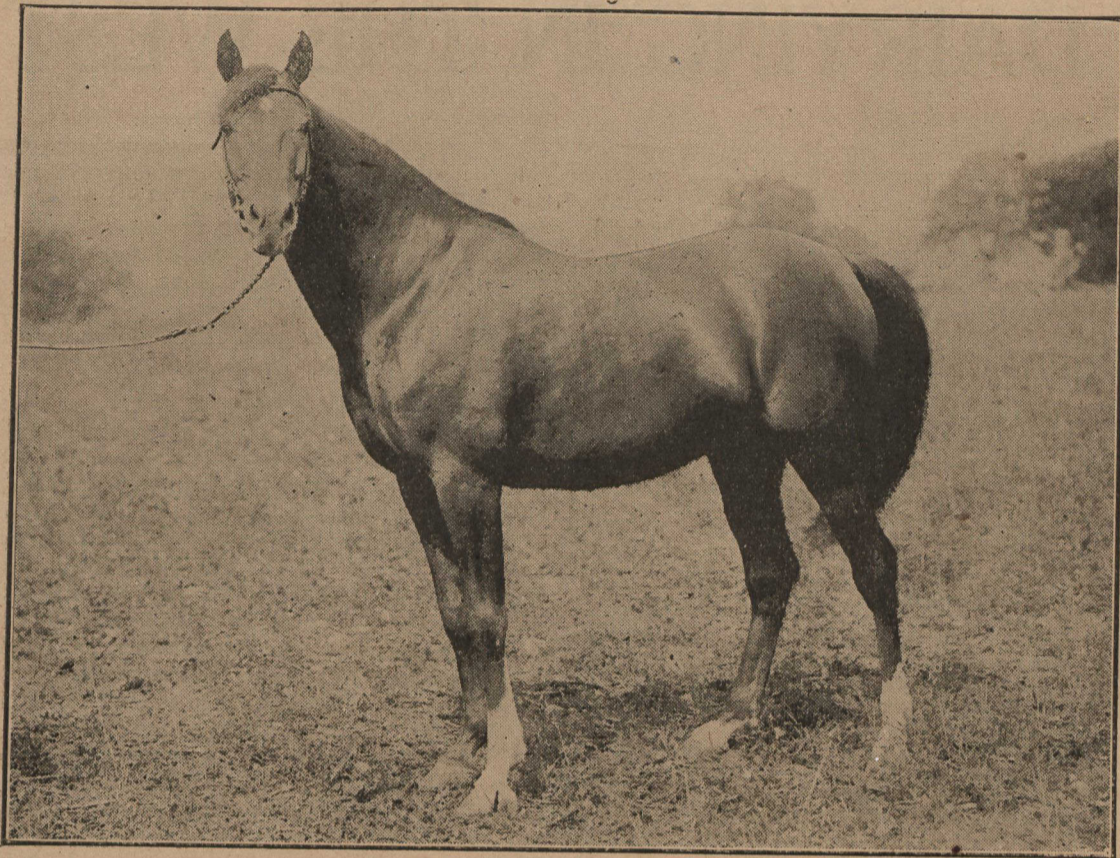
The very fact that merchants, railway men, manufacturers, bankers, labourers, teachers, mechanics, middlemen and others have strong organizations that give official expression to the opinions and demands of these various classes, upholding and championing their ideals, and in fact, steadily and surely bringing about their consummation, should convince farmers that such steadfast, general and absolute cohesion is the only hope.

It is by no means suggested that farmers should aim at monopolization of any one of their several lines of agricultural marketing activity, but rather that they should take a place in the marketing as well as the producing field, and make such a marked success of what is undertaken as will affect and regulate the whole trade in each line to the benefit of all who have a legitimate place on the marketing line from producer to consumer just as has happened in Denmark, notwithstanding, all that was said and all the objections which were raised by those who viewed co-operation among farmers as detrimental to their interests.

The hope then is in what has been accomplished already, both in Denmark, some other European countries, Eastern and Western Canada.

And this hope is not merely the mercenary hope of accumulating wealth, but a hope of peace, plenty, power and a life of comfort, including recreation and enjoyment with no excessive working hours on the farm so that a larger proportion of the children born on the prairie farms will be happy in staying by and helping on the farms.

Will our Alberta farmers respond to the call of opportunity?



Arabian Stallion Khaled, a well-known prize winner.

and there must be both men and women leaders.

None should be so narrow as to regard these leaders with either indifference or jealousy. Neither should these leaders be discouraged or abashed by slights, indifference, or unjust criticism.

They should never complain that they are not thanked for their efforts to help their fellows and their cause, because if they work honestly and courageously, their reward will surely come.

These leaders should keep continually before all, old and young, the fact that the farmer's calling is of the very highest, that the world depends upon him, that a just share of the profits from the land belong to him and that this just share can only be secured by staunch, true and loyal co-operation in spite of all temptations to break away from and forsake whatever organization may have been formed with that specific aim in view.

Nearly every co-operative agricultural failure has been directly due to half-hearted support or actual disloyalty by those taking part; this half-hearted support or disloyalty being engendered either by apathy, selfishness or groundless suspicion.

Nothing but team work can ever bring about the complete realization of the avowed ideals of such organizations as the United Farmers of Alberta and the other organizations, the leaders of which have accomplished so much, not for themselves but for their fellow farmers, and none should criticise who have not lent their full support, loyally sharing in the discouragements and benefits keeping the ultimate goal in sight.

Every farmer who does not lend his whole-hearted, faithful and loyal support is helping to perpetuate the very conditions of which he complains, and is thus handicapping not only himself but his fellow farmers.

It cannot be repeated too often that the only hope that the farmer's reasonable desire to secure a fair share of the fruits of his labors, can only be realized by true and faithful co-operation and leaders in communities will do

vision of what might be. Many of the parents know to their sorrow what lack of true co-operation, true brotherhood and the get-together spirit has lost for the farm home life.

These parents know and yet only in a com-

THE PRAIRIE PIONEER

By A. A. TITUS, Napinka, Man.

THE spring and summer of 1882 brought such a rush of homesteaders as was never before known to the prairies of Canada. The main line of the Canadian Pacific Railway ran west to Flat Creek now known as Oak Lake and east to Rat Portage now Kenora. All traffic came up over the St. Paul M. & M. Ry. Brandon was a tent town. From there south to Turtle Mountain not a dozen farms or buildings were in sight from any trail. Our sign posts were corner stakes, our dwellings, tents, our meat, ducks, chickens and plover, our fruit, saskatoon and strawberries, our motors, oxen, for only the rich had horses and we were short in all necessities bar courage. A few years later wood was teamed 20 to 30 miles, wheat drawn 50 to 60 and a little from Moose Mountain to Brandon via Napinka because of wet country in the nearer route, making 180 miles of a trip. We sold wheat amber in color and running up to 62 or 63 lbs. for 45 cents a bushel or less. Hired men worked in a few cases for \$120 per year. Yearling cattle in the fall fit to dress 400 lbs. brought \$10.00 each. 2 year olds dressing 600 brought \$25 per steer. Pork dressed brought 5 cents, eggs from 5 to 8 cents per doz.

Social Difficulties

One suit of hand-me-downs costing \$8 to \$12 filled our dress clothing needs for about three years after which we wore them every day. Our dances in the winter were well attended and only the humble wore their mocassins there. We sometimes drove as far as sixteen miles to these events and always got home to breakfast

unless caught by a storm. The violin went into the case at four in the morning and \$5.00 was due and payable to the violinist. Courtship was conducted with some difficulty and publicity where the men were present five or six to one girl. A few batchelors are even yet! alas.

Early Farming

The first binders cost the farmers \$300 and took an expert, a blacksmith shop and plenty of profanity to keep them in action. Along in the early 90's the machine companies had to buy new safes to keep farmers' notes in, all drawing 12 per cent. looked upon as nearly valueless but which were nearly all redeemed with interest enough to cover the note once or twice. In 1887 a friend told me he had bought a wagon less box in Manitou long before for \$75 notes—had paid \$125 up to date and still owed \$27 and the wagon was worn out. That man has a station and small town on his farm now. The grain was stacked before the threshing machines started and much of the grain was threshed in November and December.

The hardest pioneer privations often fell on the women. They wore and looked well in hats from two to ten years old, cooked twenty-one meals a week from very little, cooked with a few vegetables salt and pepper, seasoned with vanilla and allspice; sometimes cooked with the firewood they had personally rustled. Many a man now wealthy would have quit except for the courage and faith of his wife.

Some think the country owes nothing to the

homestead pioneer man, but it should not be forgotten they risked life frequently bore years of hardship and privation without complaint, proved the country and made good. The weaker quit, discouraged when the crops froze, or dried out, or blew out, or got hauled out or sold out; quit when the wind blew the dust in their eyes the parting out of thin hair and the grass cut

the shine off their shoes, but the heart of a man is proven in all who stayed.

The pioneer conditions no longer apply to the older districts yet the memory of old difficulties overcome should encourage us all for the future, facing our troubles like the pioneer did, we surely can follow where they broke the road.

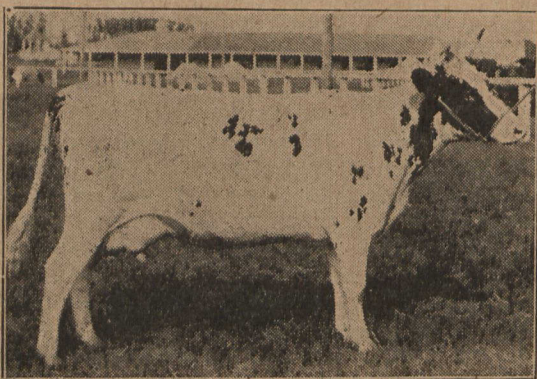
I must mention the freemasonry of the pioneer before I close. Often in Toronto or other Eastern city or on trains have I recognized with certain assurance, the Westerner, by the clear eye, balanced poise, self reliant mannr, quiet yet positive; recognized him by the lack of fuss and frills, but with a dominating personality not to be mistaken.

PROGRESSIVE DAIRYING IN THE WEST

DAIRYING in the Prairie Provinces has made great strides forward since my first trip to Western Canada eight years ago. Then everything was in embryo. A trip through the West last summer revealed to me changed conditions,—advanced conditions, on every hand. This advancement may be classed under four heads:

1. Increased output.
2. Improved quality of products.
3. Businesslike management.
4. Improved live stock.

1. **INCREASED OUTPUT.** The output of butter, cheese, cream and milk has had a phenomenal increase in each of the three prairie pro-



Birdie of Lone Spruce, 36404. Sire, Spring Brook Hero 2nd; dam, Bella of Lone Spruce. Prize winning Ayrshire cow at all the leading Western Summer Fairs of 1917. Owned and exhibited by Rowland Ness, De Winton, Alberta.

vinces. Examination of statistics show an increase of over 300 per cent. since 1911. 1

This increase has been made through a well organized system, carried out successfully by the Departments of Agriculture, under the supervision of the Dairy Commissioners of the three provinces in question. Also, the organization of large dairy companies in the largest centres has been a strong factor in promoting the dairy industry. These companies handle large quantities of milk and cream and have receiving stations on the various lines of railway. Over 85 per cent. of the milk consumed in the cities is brought in by rail. What is the result of this increased dairy output? It may be answered in two words—**GREATER PROSPERITY.** Through all the hard times in which the West has passed, the dairymen felt the pinch the least of any, as he usually had a cheque each month for his milk and cream, which enabled him to meet his obligations. Is this not the best argument in favor of dairy farming? Frequently the grain grower has had to secure credit from his local bank or merchant, to tide him over until the next harvest. The returns to the dairy farmer are sure and regular.

2. **IMPROVED QUALITY OF PRODUCTS.** This has been most marked. At all exhibitions this year where Western butter competed against butter from Eastern Canada, the highest awards went to the Western make, thus indicating its superiority. Primarily this is due to the cool climate of the West, but principally to the system of grading the cream, to pasteurization and to churning the cream while sweet. This gives a mild, nutty flavored butter with splendid keeping qualities and which requires less salt. Such butter sells for the highest price on any market. The quality of the Western cheese is the best—

By W. F. STEPHEN,
Secretary Canadian Ayrshire Breeders' Association.

of fine texture and flavor. A high quality of milk is demanded by the cities, and such is delivered.

3. **BUSINESSLIKE MANAGEMENT.** I emphasize the business end, as this is of great importance. Business methods have been adopt-

THE SONG OF THE PLOW

By Nina Moore Jamieson

I will sing you a song of the cleaving plow,
A song of the wandering breeze,
A song of the sun in the radiant sky,
A song of the greening trees
Forth in the crisping morning air
With my horses down the lane—
I answer the call of the ancient earth
When the spring draws round again!

Now the world is new from the winter's sleep!

The clouds are faint and high.
The fair wind frolics upon the hill,
The shadows skip and fly!
Then hey! for the plow and the moist black earth

With promise of life and health!
My treasure lies in my little farm,
My body is all my wealth.

I own no silver or minted gold
Save only the glowing sun—
The stars are my jewels rich and bright
To wear when the day is done.
A sweet content and a strong right arm—
What more can a mortal ask?
The daily toil meets the daily needs,
The plowman joys in his task!

The whole outdoors is my work-shop vast
The plow is my ready tool;
With the rain and the sun I toil to feed
King, commoner, sage and fool!
The royal wheat in its beauty tells
The path of my gallant plow,
I would thank the Lord for my golden chance,
I would thank Him—if I knew how!

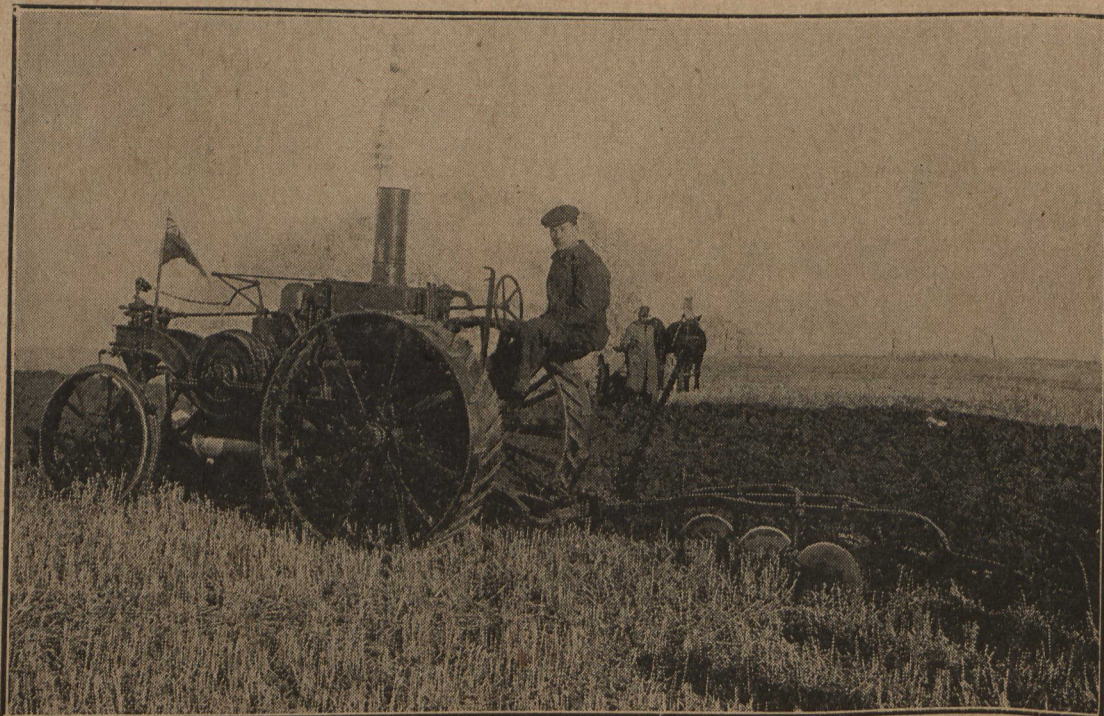
ed from the start, by both the companies and the Dairy Divisions of each province. The latter has encouraged and fostered the dairy industry in their respective provinces. The Live Stock Div-

isions have made it possible for the farmers to get dairy cattle. The dairy companies pay the producer regularly. If a producer delivers 4 per cent. milk or 40 per cent. cream he is paid accordingly. All milk is paid for on its butter fat content, as it is now recognized that the true value of milk can only be estimated by its butter fat content. This is having the effect of causing farmers to be careful in selecting sires from high testing families.

4. **IMPROVED STOCK.** The success that has followed the dairy farmer has caused many to turn to that line of production, especially now that a market is available for dairy products. This has caused a big demand for good dairy cattle in the Western provinces. The farmers want them large, well developed and with good teats. The demand for pure bred sires is on the increase. Only by selecting dairy cattle of quality and from ancestry with a good backing of records, high in production and fat, will the dairy herds of the prairie provinces continue to improve. The Western dairymen should insist when purchasing cattle to improve their herds, that they belong to that class mentioned above. It is not simply cows that are wanted, it is **producers.** For these dairymen must be willing to pay a price consistent with the quality required, only then will strong dairy herds be built up in the West.

While I have no desire to discredit any dairy breed, yet I am strongly of the opinion that the Ayrshire cow is as well, if not better, adapted to the Prairie Provinces than any of the recognized dairy breeds. The fact that the Ayrshire in her native heath had to hunt for her living on the Scottish moors and hills, has made her exceedingly hardy, a quality which she has maintained under the severe climate conditions of our land. Her hardiness, willingness to rustle for her living, her adaptability and her ability to produce large quantities of milk, make her an exceedingly profitable cow.

In selecting foundation for new herds dairymen in Western Canada could not do better than to look into the merits of this breed of **profit makers** for the dairy.



Helping Overcome the Food Shortage

Bacon Is A Military Necessity

Bacon is the most compact form in which meat and fats can be supplied to the armies.

It takes up the minimum of space in freight cars, ships, transport wagons and in supply depots at the front. It is easily handled, and it keeps.

Bacon, on account of its large percentage of fat, is the great outdoor food. Men who work and travel hard, sleep in the open air, and are exposed to the wet and cold, require a large amount of fatty foods, because such foods best

supply the nutriment, the energy and the heat-producing qualities necessary. Bacon fortifies the body against exposure, repairs the wear and tear of hard work and is easily digested. It is also easily and quickly cooked.

The Allied Armies require enormous supplies of bacon, the British Army ration allowing $\frac{1}{4}$ pound per man per day. With the United States raising great armies, the demand for bacon will be still further increased. Where is the supply to come from?

32,425,000 Hogs Short

There is a shortage of 32,425,000 hogs in Europe. The hog population of the United States is 10% below normal. The number of hogs slaughtered in Canada in September, 1917, shows a decrease of nearly 27% compared with September, 1916. Despatches from Denmark state that the total prohibition of exports of pork products is

anticipated in order to insure an adequate supply of meats and fats for the Danish population.

The situation is serious. The armies must be assured adequate supplies of bacon. A great increase in the production of hogs in the United States and Canada is a military necessity.

Save the Young Sows

Young sows which are slaughtered now only produce about 150 pounds of meat per sow, whereas each of these sows, through her progeny, could produce at a moderate estimate 1,500 lbs. of meat within a twelve-month period.

The United States has committed itself to greatly increase its hog production. Canada will do her share. Every pound of pork that can be raised is urgently needed.

The Dominion Government and the Provincial Governments are co-operating to encourage greatly increased production in hogs and to safeguard the growers.

Already steps have been taken to control the spread in price between that received by the producer and that paid by the consumer. The grower is assured *his fair share of the price* paid by the consumer.

The Flour Mills are under a form of license and allowed a profit of 25 cents per barrel on the

flour only—the bran and shorts will be sold at cost, and are to be free from adulteration.

The huge United States corn crop is under effective American control to prevent speculation and to insure none of it going to Germany. There will be an abundance of feed from this source as the 1917 crop is 600,000,000 bushels greater than last year's.

The buying of the meat for the Allies will all be done by the one Commission representing the Allies which will be an influence in stabilizing the market and preventing wide fluctuations in price.

The great shortage of hogs in Europe and the vast demands of the Allied armies for pork products indicate a bright future for the swine industry in Canada.

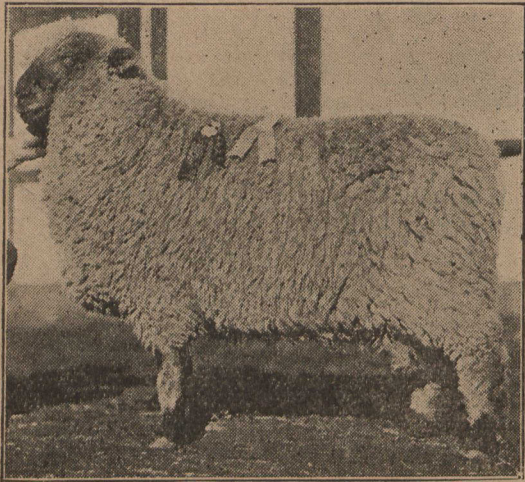
There is *individual responsibility*, and every man who can raise hogs should seriously consider the possibility of raising one or two extra litters in 1918.

Dominion of Canada Department of Agriculture

**LIVE STOCK BRANCH
OTTAWA**

A CHRISTMAS GREETING

WE are approaching the festival on which we celebrate the principles of the "Prince of Peace", the festival at which the very spirit of "peace on earth and good will to men" should reign supreme and all humanity be drawn together as one great family, cemented by true affection and exalted in brotherly love.



Champion Oxford Ram at the recent Calgary Sheep Sale, sold by Geo. Walters, Dalroy, to Fred Cowman, Cremona, for \$250, being the highest price paid at the sale.

But as the morning sun encircles the earth on this day of the 1917th year of the "Prince of Peace" it will light up a scene to break the heart of man and make angels weep. Embattled nations at each other's throats; Nations, over which the wheels of accursed war have been driven, lying in hopeless ruin, desolation on

By H. W. WOOD, President of the U.F.A.

desolation, woe on woe, misery and despair, till it would seem that Peace, Love and Hope had fled from the earth and that brutal hate had unchained the hounds of hell to tear the heart of humanity and prepare the earth as a great sepulchre of a lost race.

Who has done this evil and monstrous thing? Who is this great enemy to humanity, to peace, to the "Prince of Peace"?

The perpetrator of this foul crime is not a man, not a being, not a person, it is something impersonal, a spirit, that broods like the shadow of death over the earth, ready to set man against man, class against class, nation against nation till all is utterly destroyed. This accursed thing is Selfishness.

Selfishness is the great unconquered enemy to peace and good will on earth, the enemy that sets the hand of man against his fellowman and makes Ishmaelites of us all, that promotes competition, discord, strife, conflict, war. It makes man look down, not up, and sets his heart on things that are not rightly his but belong to all. It draws him to the jungle, the fighting ground of the primitive beast, where strength overcomes weakness and growls and fights for more and still more. It advocates false principles with subtlety and seeks to make wrong look right and right look wrong. It kills co-operation, peace, harmony, truth, love. It stations highwaymen all along the channels of commerce and seizes from the people the fruits of their toil. It destroys the spirit of democracy and promotes the spirit of autocracy. It has set up the Kingdom of hell on earth and where the Kingdom of Heaven should exist.

Co-operative Efforts will Crush Selfishness

Can we overthrow the Kingdom, lead captive the King, redeem humanity, and build a true civilization that will bring Peace on earth and good will to all humanity? Where the selfish will cease from troubling, and the people be at rest.

These are some of the thoughts that should fill our minds and some of the questions we should ask ourselves during our Christmas festivities. If the world is ever redeemed from the bondage of error, it will be by the united co-operative efforts of the people themselves. In finding the true way to social regeneration and social redemption we have got to realize individual responsibility. Each man and each woman must not only strive to conquer selfishness within self, but must ally himself or herself with the forces that are trying to co-operate under the law of unselfishness. Under this law only can we succeed in the supreme test of humanity. Each must do his individual duty. All must do their co-operative duty.

If each man and woman in Alberta, who reads these words will think deeply of these things, and seriously determine to do individual and social duty, and faithfully lives up to that resolve, we will become a force that will be a real contribution to the great world forces that are mobilizing for that conflict.

What province, what people, is more fitted, even to take the lead in this great upward struggle?

Remember that WE will be responsible for the kind of Alberta the Christmas Sun of 1918 lights up.

Fighters and Workers Must Have Meat

BY W. F. STEVENS,

Live Stock Commissioner for Alberta.

The British Market

We who have enjoyed the advantage of free access to Britain's enormous consuming market have accepted it as we do the air we breathe and the water we drink. But what if the capacity of this market were reduced, or if adverse trade relations were imposed upon us by the conquering power? What then would be our

greater and final struggle which would be sure to take place as soon as Germany had marshaled her resources and decided to revenge herself against the democratic countries of America.

Fourth. We would have to do all of these with our trade dominated by a hostile country.

Is the prospect pleasing? If not, then it behooves you to think less of the comforts and profits of today and more of the liberties of tomorrow.

Appeals for greater food supplies for our

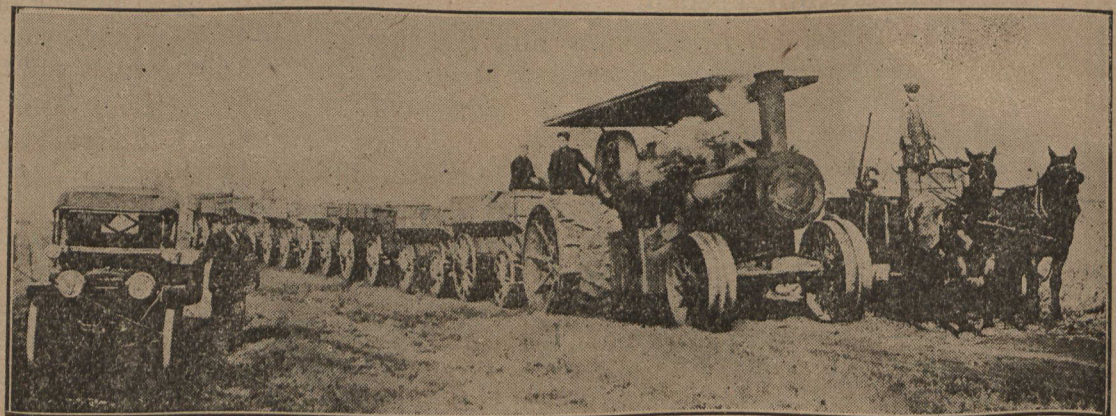
In order to keep an army up to standard in fighting efficiency, the men must have meat. A variety is of course necessary, but there is not one kind that lends itself to war conditions as does bacon. Unlike other classes of meat, curing improves rather than impairs its palatability. Being cured, it will keep for an indefinite time if protected against moisture and flies.

Men engaged in hard labor or exposed to the weather, require fat, and the fat of bacon is more palatable than is that of either beef or mutton. Besides, a soldier can carry more nourishment in his knapsack in the form of bacon than of any other kind of food. Hence the ever increasing demand for bacon for war purposes.

But the world's supply is diminishing. Denmark, once a heavy producer, is exporting little to Great Britain. The same is true of Holland. The output of Ireland is also growing less. Therefore Canada and the United States must assume the burden of supplying the allied armies with this most necessary class of food.

Two questions at once occur to the reader—the one, can they do it; the other, will they try?

Naturally the man who has had a son or brother at the front can be relied upon to do his utmost to this end. He who prizes the liberties he enjoys under a democracy and who values the esteem of his neighbors, will not want to have it said of him that while he haggled about prices a soldier fell because he had not been sufficiently nourished. But he who has neither kith nor kin in the trenches, and who cares naught for the good or ill will of his neighbors, should seriously contemplate how futile would today's profits be to him in the event of an adverse conclusion to the war.



Hauling 1,200 bushels of grain in North Dakota with a 30 H.P. Rumley Engine.

future? Let us enumerate some of the things we would have to face.

First. We would have to meet the war debt we have contracted.

Second. We would have to meet an enormous war indemnity which no country knows how to impose so vindictively and crushingly as Germany.

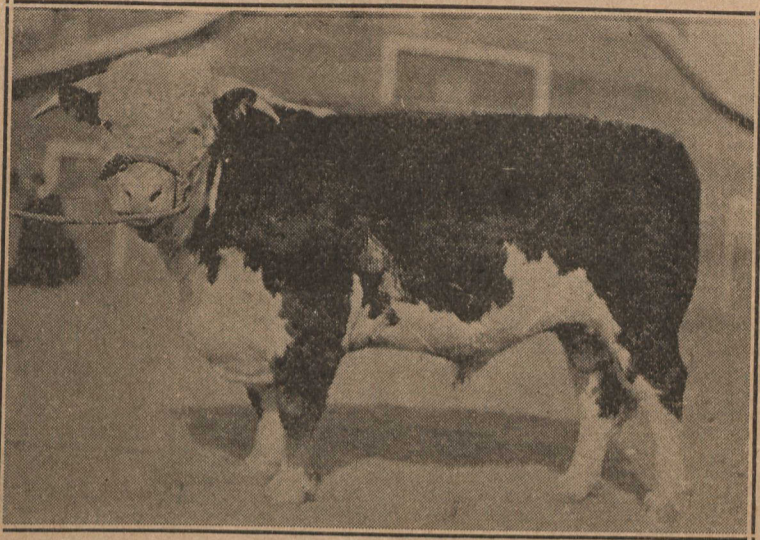
Third. We would have to prepare for that

armies are usually directed to the farmers. The duty rests as heavily upon the residents of the city. The exports of a country are not measured by the amounts produced, but by the amounts that are not consumed. If the country will produce and the city refrain from consuming, there is no danger of our armies being underfed.

The appeal is to both, because a heavy duty rests upon both. Will they discharge it?

- WILLOW SPRINGS HEREFORDS -
Canada's Premier Hereford Herd

OVER 400 HEAD



"GAY LAD 40TH," one of the greatest Herefords on the American Continent.

I have for sale a number of one and two-year-old Bulls of outstanding merit, the kind which maintain the high standard of my herd. I have also a number of females, all ages, to dispose of, and they will please the most discriminating buyer.

I WILL BE GLAD TO SEE YOU AT THE RANCH,
 NEAR CROSSFIELD, ON THE C. & E. LINE OF THE C.P.R.

HERD HEADED BY:—

GAY LAD 40TH,
 BEAU PERFECTION 11TH, and
 GOVERNOR HADLEY.

The progeny of the above sires from females of outstanding type and merit such as seen in the illustration have the constitutions, size bone and hair imparted by the altitude, climatic conditions and grasses peculiar to Alberta.



Some of the females on Willow Springs Stock Farm

FRANK COLLICUT, 636 Eleventh Ave. **CALGARY, ALBERTA**
 ——— West ——— GEO. MURDOCH, Mgr. CROSSFIELD, ALBERTA

HEREFORD CATTLE

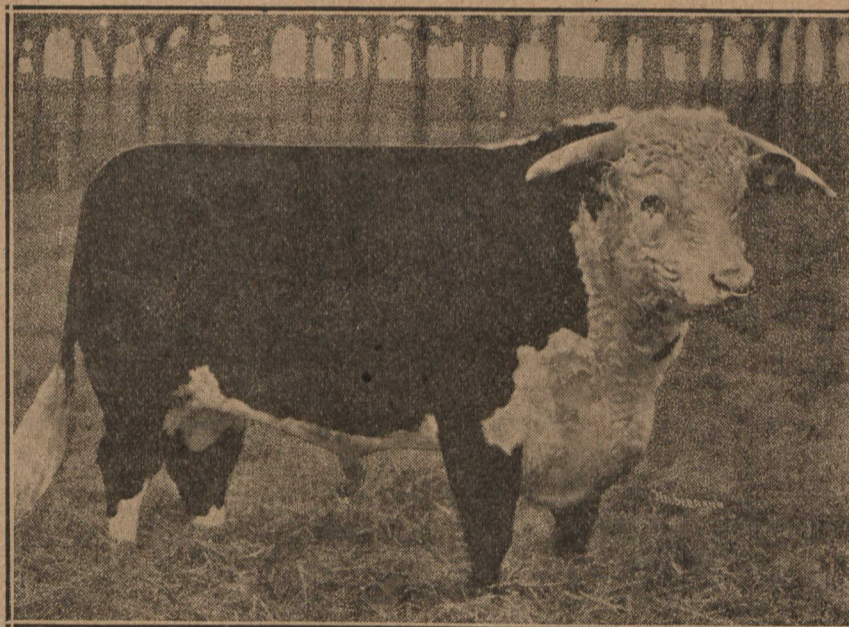
STOCK FARMS

SUFFOLK HORSES

GIRVIN, SASK.

MIDNAPORE, ALBERTA

HERD BULLS



"MARTIN FAIRFAX"

"BRITISHER, Jr."

**REGISTERED
 SUFFOLK HORSES**

"ASHMOOR OLIVER"

at head of Stud.

We are offering for immediate sale a number of young bulls sired by "Paul Mack," our old herd bull, some of them out of "Perfection Fairfax" dams. I have also a few to offer sired by "Britisher, Jr.," by "Britisher."

These bulls carry some of the best blood of the Hereford breed, and have an entire life of usefulness before them.

We have also some 2-year-old stallions for sale, good, big, weighty fellows with blood and breeding.

WRITE US YOUR WANTS.

YOUR CORRESPONDENCE WILL BE PROMPTLY ATTENDED TO BY EITHER:

THE ARM RIVER STOCK FARM,
 GIRVIN, SASK.
 GEO. E. FULLER, Prop.
 M. L. FRENG, Mgr.

or

Geo. E. FULLER

MIDNAPORE

ALBERTA

MOUNT PLEASANT STOCK FARM

Clydesdales & Shorthorns

We have a number of high-class Stallions and Mares for sale at the present time. The Stallions are all of big size, with strong, smooth conformation and superfine quality. Our Mares are splendid breeding matrons of high individual merit.

Our young stock which we have for sale are sired by our CHAMPION SHOW and breeding Stallion "Crowned King" 12378. Sire, "Gartly Bonus" by "Everlasting."

SPECIAL OFFERINGS:—2 STALLIONS, rising three years old, by above sire, out of imported dams. Several Brood Mares and a few exceptionally fine filly foals.

We are also offering as an extra special bargain, the Stallion "Crowned King" with a selection of Mares. This is an exceptional opportunity for anyone starting in the pure-bred Clydesdale business. Our Horses have stood high in the show ring, at all the Fairs in Western Canada. See picture of our Mares in another part of this issue.

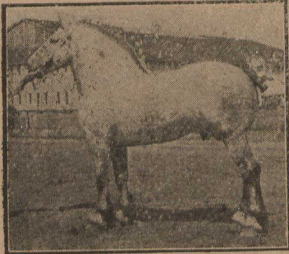
WRITE FOR FURTHER PARTICULARS

McKIRDY BROS.

NAPINKA

MANITOBA

PERCHERONS - PERCHERONS



I have just imported a fine lot of two-year-old stallions. They are of superior size, breeding and quality, with heavy, clean, flinty bone, and they have the making of sires and show horses of the highest order. The majority of these youngsters will grow into 2,100 lb. horses and as the right kind of stallion is not plentiful when it comes to looking them up, prospective purchasers would do well to see my horses.

I have also a number of stallions of all ages and can fill any requirements. These will challenge comparison and give a good account of themselves in any show-ring.

Geo. P., 1st in aged class and champion of the breed, Regina, 1917, Summer Show.

Come and look over my Stables or write me your requirements.

Dr. HEAD

REGINA

SASK.

CRAIGIE MAINS CLYDESDALES

ONE OF THE BEST COLLECTIONS
OF CLYDESDALES IN CANADA.

We have just what you want in STALLIONS, MARES or FILLIES.

Our Stallions are young and acclimatized.

They are the get of sires that have made Clydesdale history in Western Canada, and are bred for quality and size to meet the most critical demand.

We have also some extra good Stallions for hire to horse breeding clubs.

WRITE US FOR FULL PARTICULARS

A. & G. MUTCH

LUMSDEN

::

::

SASK.

-Sunny Slope Shorthorns-

FOR IMMEDIATE SALE

A great selection in FEMALES, richly-bred Cows and Heifers, in calf and with calves at foot, by noted bulls, at rock-bottom prices. Some yearling and two-year-old HEIFERS also; and a few BULLS.

Write me for prices, or, better, visit the farm.

All Stock Loaded F.O.B. Cars, Calgary, any Railroad.

FARM 11 MILES S.W. OF CALGARY ON PRIDDIS TRAIL.

NORMAN HARRISON

PRIDDIS

ALBERTA

Livestock

FINISHING LAMBS FOR THE BLOCK

By E. S. ARCHIBALD,

Dominion Animal Husbandman.

No branch of farming offers better inducements than that of sheep raising, and no other class of live stock will make greater profits. Markets for lambs, mutton, and wool are high, and will remain so for many years. With lambs selling at \$9 to \$11 per cwt. live weight in the fall and from \$12 to \$15 in the late winter, a large profit is assured. Add to this wool (unwashed) selling at 58 cents to 68 cents per pound, and sheep raising becomes the most profitable farm industry. There is every possibility for the intelligent farmer to establish a flock even at present prices and make 50 to 75 per cent net profit per annum on his investment. There are, however, many possible means of losses, such as light lamb crops, heavy mortality in lambs and ewes, feed waste, lamb stunting, intestinal parasites, and many similar troubles which, in the case of the careless or indifferent shepherd, will convert these large profits into an even greater loss. One of the most common losses to the farmer is due to improper marketing. Only well-finished lambs can top the markets and bring the maximum profit.

of such conditions all over the Dominion, a large amount of investigational work along these lines has been conducted on the Dominion Experimental Farms throughout Canada. Details of this work may be seen in the annual reports; however, a brief summary of the work to date may be timely.

Profits in Winter Feeding Lambs

In the seven years' work conducted on the Experimental Farms system, the profits on the winter finishing of lambs have ranged from 25 cents per head to \$3.82 per head over the cost of feed. In other words, the Experimental Farms and Stations have purchased unfinished lambs on the open market or from drovers and, after charging good prices for marketable farm feeds and cost prices for other roughages, have made from 3 to 33 per cent on the investment in the lambs, labor not included. Even allowing a fair margin for labor, this is as profitable a line of feeding work as can be carried on, and shows a return on investment greater than is usual in the finishing of steers or shoats.

The sex of lambs to finish for the block is at this stage of the sheep industry in Canada a most important consideration. Owing to the great scarcity of breeding ewes and

Humanity Expects To-Day That Every Farmer Will Do His Duty

PORK is as essential as bullets in the successful termination of the war, therefore it is the farmer's peculiar duty to see that every suitable sow is bred this year, and then use special care to see that the litters are well looked after, so that 1918 will find a big Canadian increase of all pork products.

On the Dominion Experimental Farms some interesting results have been obtained from a number of experiments in lamb feeding conducted during the last few years.

The large percentage of Canadian lambs are marketed in the fall direct from the pastures, which is undoubtedly the most profitable practice, providing the lambs are well finished on grass alone or on an added grain ration. All the lambs from the farmer's flock are usually lifted at the same time, which means that the well-finished lambs of good weight must help to sell the light, thin lambs, which may be as well bred but, being late lambs or twin lambs, have not done as well as their flock mates. Well finished lambs of uniform weight invariably command a higher price than mixed lambs varying in size, weight, and finish; hence it is always more profitable to hold the lighter lambs and sell only those of uniform weight and finish. Again, the selling of the most of our Canadian lambs during the fall months practically always causes a slump in price. Lambs not required for immediate consumption are held in cold storage to the profit of the wholesaler in view of the usual increase in price of from \$1 to \$3 per hundred pounds between the months of November and April.

When the farmer appreciates these two conditions, the lamb trade will be revolutionized and the farmer will finish his work and reap full profits for foodstuffs consumed by, and labor expended on, his sheep. Many farmers, with abundance of roughage, can well afford to finish from one to three carloads of lambs during the winter months, thereby making top market prices on the farm produce and a good margin of profit in addition. Realizing the existence

the immediate needs of enlarging the output of the sheep industry, all ewe lambs fit for breeding purposes should be saved and held over for breeding when shearlings. Aside from being a national duty, this is also an excellent investment, and is appreciated as such by the farmer.

All good pure-bred ram lambs are in great demand, and should be used as breeders. All inferior pure-bred rams and all grade ram lambs should be castrated early and finished for the block. The high-class market always discriminates against unaltered ram lambs and against unstocked lambs. The wise feeder also realizes that greater and cheaper gains follow these two necessary simple operations.

The class of lamb to buy depends largely on the lambs available, and market requirements. Usually, the well-bred lamb showing plenty of constitution and thrift and weighing from 60 to 80 pounds is the best stocker lamb to put into winter quarters.

Lambs weighing from 80 to 100 pounds, if thin, may be profitably put in the feed lot for a short finish, and if good fall pastures are available this may be as profitable a line of work as any. The finished, heavy lamb weighing from 80 to 110 pounds should never be purchased for feeding purposes. The time when greatest profits can be made in purchasing lambs is usually between the months of August and November. However, the condition of the pastures and of the lambs themselves, as well as the markets, will regulate the time for purchase. The proper time to sell the lambs is when they are finished, whether this be November or April or any intervening month. This applies also to the selling of lambs off grass. Finished

BIG COMBINATION SALE

OF

175 SHORTHORNS and 55 CLYDESDALES
2 HACKNEY STALLIONS and
4 HACKNEY MARES



Some of the fifteen beautiful calves to be sold at Messrs. P. M. Brett & Co.'s Dispersion Sale, December 11.



Some of the fine Shorthorn cows with their calves at foot, all included in P. M. Brett & Co.'s big Dispersion Sale, Dec. 11, 1917, at Calgary Exhibition Grounds.

On account of the failing health of Mr. P. M. Brett, the senior partner of Messrs. P. M. Brett & Co., and also on account of the shortage of experienced labor, they are going to sell out their entire herd of Shorthorns.

Mr. Norman Harrison of Priddis

will also sell a splendid selection at the same time, including Males and Females of true Scotch character and breeding.

The whole offering will consist of 20 cows with calves at foot; 36 2-year-old heifers all bred to the very best Scotch bulls; 14 head of yearlings; 16 head of heifer calves; 20 head of bulls from six

months to 3 years old, among them the great SHOW and BREEDING BULL "RED MAJOR," 19 months old, 1st as junior yearling, Calgary Summer Show, 1917.

Balance are young cows safe in calf, many of them ready to calf, and all bred to the best Scotch bulls.



Some of the 2-year-old Clydesdale Stallions to be sold December 13th.



Some of the Clydesdale Mares to be sold December 13th.

- The CLYDESDALES -

consist of 18 HEAD OF STALLIONS, choicely bred, high class individuals, from one year old up, and 37 HEAD OF MARES and FILLIES.

Those of breeding age are chiefly bred to the imported Stallion "Punctuality," a son of the famous "Up to Time," and to other good stallions.

SALE TO TAKE PLACE AT THE

Sale Pavilion: CALGARY EXHIBITION GROUNDS

TIME OF SHORTHORN SALE IS DECEMBER 11th (First Day of Winter Fair) at 6.30 in the evening
TIME OF CLYDESDALE SALE IS DECEMBER 13th, same place, at 6.30 in the evening.

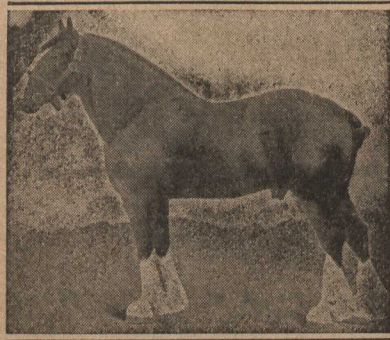
NORMAN HARRISON,
Priddis, Alberta

P. M. BRET & CO.,
BOX 2089 Calgary, Alberta

DURNO & PAISLEY, AUCTIONEERS

Terms Cash—If not otherwise arranged between parties.

VANSTONE and ROGERS



IMPORTERS OF CLYDESDALES, PERCHERONS AND - BELGIANS -

We have over 100 HEAD of STALLIONS in our barns from yearlings up, and we will have new shipments arriving every two or three weeks. These Horses will please even the most exacting admirer of size and quality in a draft horse. We have sold 48 stallions since August last (12 of them by mail), and every one of our purchasers is satisfied with his bargain. This record speaks for itself. At the present time we have a number of Stallions in Southern Alberta, under charge of Mr. A. A. McDonald, moving from point to point, and we have also a string in Southern Saskatchewan moving from Assinibola west, under Mr. James Brooks.

Anyone wanting information regarding these horses can write to us direct and either of our men will call on him.

SPECIAL OFFER:—We are clearing out at reduced prices some aged CLYDESDALE and PERCHERON STALLIONS before the busy selling season commences. These Stallions we took in exchange at from \$250 to \$600; they are all sure foal-getters, quiet to handle, and broken to harness. They have been worked all Summer and are not carrying any superfluous flesh, but they are well-bred and will make good, useful sires.

This is a particularly good opportunity to get a good sire CHEAP.

WRITE AT ONCE FOR FULL PARTICULARS

BRANCH AT:
MEDICINE HAT FAIR GROUNDS,
MEDICINE HAT, ALBERTA.
A. A. McDONALD, in charge.

VANSTONE & ROGERS
NORTH BATTLEFORD
SASK.

CLYDESDALES AND SHORTHORNS NEW IMPORTATIONS

I have just had landed from Scotland a new importation of CLYDESDALES and SHORTHORNS which include the following:

CLYDESDALES—Among them are the Glasgow Premium Horse "Prince of Balcairn" and the big good horse "North Seaham", also two young stallions by the \$47,500 "Baron O' Buchlyvie." The others are well bred of excellent conformation, and will give a good account of themselves both in the show-ring and at stud.

I have also a number of other stallions of various ages of excellent blood lines, and sure stock getters.

SHORTHORNS.—In my recent importation are 4 bulls and 6 head of females of such breeding as the "Augusta", "Roan Lady", "Broadhooks" and "Lovely" families.

I have also a number of well bred females, 10 cows and heifers, five of them with calves at foot, and in calf again to a well bred bull.

None of the cows are more than eight years old. I will make a special price to anyone taking the above lot of females.

(I have Animals for either Showman, Breeder or Farmer)

JOHN GRAHAM

THREE HILLS, Alberta - CARBERRY, MAN.

lambs will make small gains at a very high cost per pound, which cost will usually be far in excess of the market price at that season. In addition to this, the markets are demanding a well-finished lamb, not overdone, and ranging from 85 to 105 pounds live weight, depending upon the breed and season of the year. This, of course, does not apply to the young-lamb trade of the spring and early summer.

Feeds for Winter Lamb Finishing

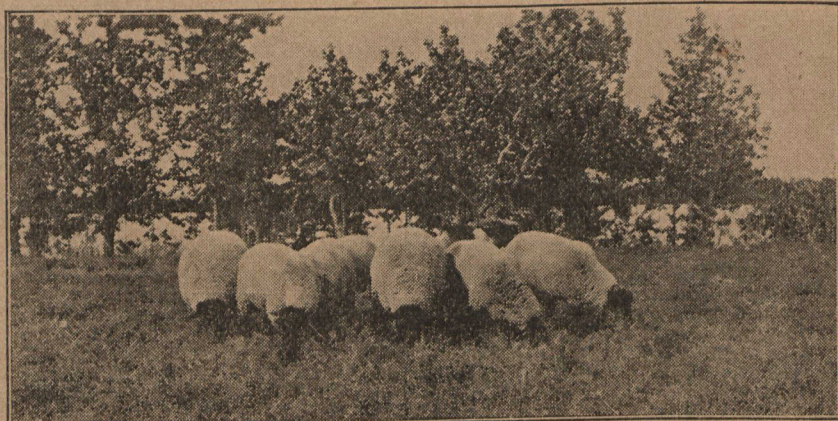
The selection of feeds for winter use should be to replace good pasture grass in every way possible. Grass is the ideal ration for sheep, not only in cheapness but also in nutrition, palatability, and succulence.

A large number of feeds have been tried in this work, and these may be briefly treated under the four headings: dry roughages, succulent roughages, grains and mill feeds.

Of the dry roughages, alfalfa hay is an easy leader closely followed, however, by fine clover hays and fine mixed hays. At the Experimental Station, Lethbridge, Alberta, it has been found that alfalfa hay, when properly fed with succulent roughages and grain, is worth \$21 per ton for the finishing of lambs. It has also been found that alfalfa hay alone or with meal is less profitable than when succulent roughages, such as roots (turnips and mangels) or green oat sheaves, are also fed. What applies to the rich alfalfa hay also holds true with clover hays. Good quality clover hay is worth from 10

Again, these succulent roughages are cheaply grown and are rich, nutritious foods in themselves. Where corn ensilage may be raised for \$2 per ton it is the cheapest and best succulent roughage for lamb finishing. When fed with clover hay and grain it will produce 5 per cent greater profits than a mixture of turnips, clover hay, and grain. However, a mixture of turnips and ensilage with hay and grain will usually give greatest profits. The turnip is the safest root to feed in finishing lambs, particularly where wethers or even ram lambs may be found in the pens. Mangels, particularly, may have a dangerous influence on the kidneys of wethers and rams.

The grains which may be most profitably fed vary considerably from year to year with the market values of those grains commonly found in Canada. Oats, barley, and feed wheat are all excellent grains for lamb finishing, and may be fed whole or crushed, but never fine-ground. A mixture of these three will usually give much better results than any one grain singly. Corn is another grain which excels in the fattening of lambs, particularly those requiring only a short finish. Corn-fed lambs on the Central Experimental Farm have reached a profit of \$2 per head, making great gains at a reasonable cost. However, at the present market prices corn would not be profitable for this purpose. Elevator screenings also are very valuable in lamb finishing, varying in value, however, in direct proportion to the variation in the quality of the screen-



A group of Suffolk ram lambs on Invermark Farm, owned by A. G. Stewart, Stettler, Alberta.

to 50 per cent more in lamb feeding than timothy or similar grass hays. Proving the value of succulent roughages, it was found also that good quality timothy hay plus mangels gave from 15 to 20 per cent more profitable gains than clover hay alone. A hay made from peas and oats, well cured, will produce satisfactory gains, but at least 10 per cent less profitable than alfalfa or clover or a mixture of these with oat sheaves.

Fine corn stover will also make profitable gains, but there is a large percentage of waste. However, a small amount may be fed satisfactorily as a supplement to good quality leguminous or grass hay. Coarse hays commonly found in marsh lands are approximately 50 per cent less valuable in lamb finishing than good quality timothy hay, and approximately 60 to 75 per cent less efficient than clover or alfalfa hay. A limited amount of straw may be fed satisfactorily in finishing lambs, but this should only be as a supplement to clover hay and roots. Generally speaking, the richer the hay and the better it is cured, the more profits will be made in feeding it to lambs. Coarse, dry roughages of any sort are less palatable, more wasteful and less profitable than are the finer feeds of the same varieties.

Succulent roughages play a very large part in profits from lamb finishing. Generally speaking, good succulent roughages, such as turnips, mangels, sugar beets, corn ensilage, pea and oat ensilage, or the like, make the dry roughages and grains more palatable and more digestible.

Where there is a high percentage of broken kernels of wheat and barley and oats, screenings may have a good value almost equal to a mixture of barley, oats, and wheat. Elevator screenings containing a high percentage of black-seeds and foreign matter have less feeding value. Screenings with dirt and black seeds screened out give the greatest gains and profits. A mixture of whole screenings with barley and oats has given from 10 to 40 per cent greater profits than the screenings alone, the variation being due to the varying quality of the screenings. Black-seeds alone are most unpalatable and are dangerous to feed, in that a large proportion of the feed will pass through the lambs in an undigested condition and will again germinate on the land. Black-seeds fed alone are unprofitable, and the lambs will make small gains if compelled to depend on this feed for their sustenance.

It is doubtful if, under average conditions, any high percentage of mill feeds can be fed profitably in lamb finishing. However, where grains are very expensive the following meals may be profitably used: Bran is an excellent addition to a grain mixture, especially in the absence, or partial absence, of succulent feed; linseed oil cake might often be profitably added to the grain ration to put a final finish on the lambs; gluten meal is even superior to the linseed oil cake; cottonseed, when not exceeding 10 per cent of the ration, may often be a profitable addition to the grain ration; middlings, shorts, and fine-ground grains are of a pasty

DOLLAR'S CLYDESDALES

The chief value of the Clydesdale is his incomparable breeding.

There are more great families in this than in any other of the draft horse breeds.

CLYDESDALE blood is the refining influence.

CLYDESDALES breed true to type.

CLYDESDALES have pulling power.

CLYDESDALES have endurance.

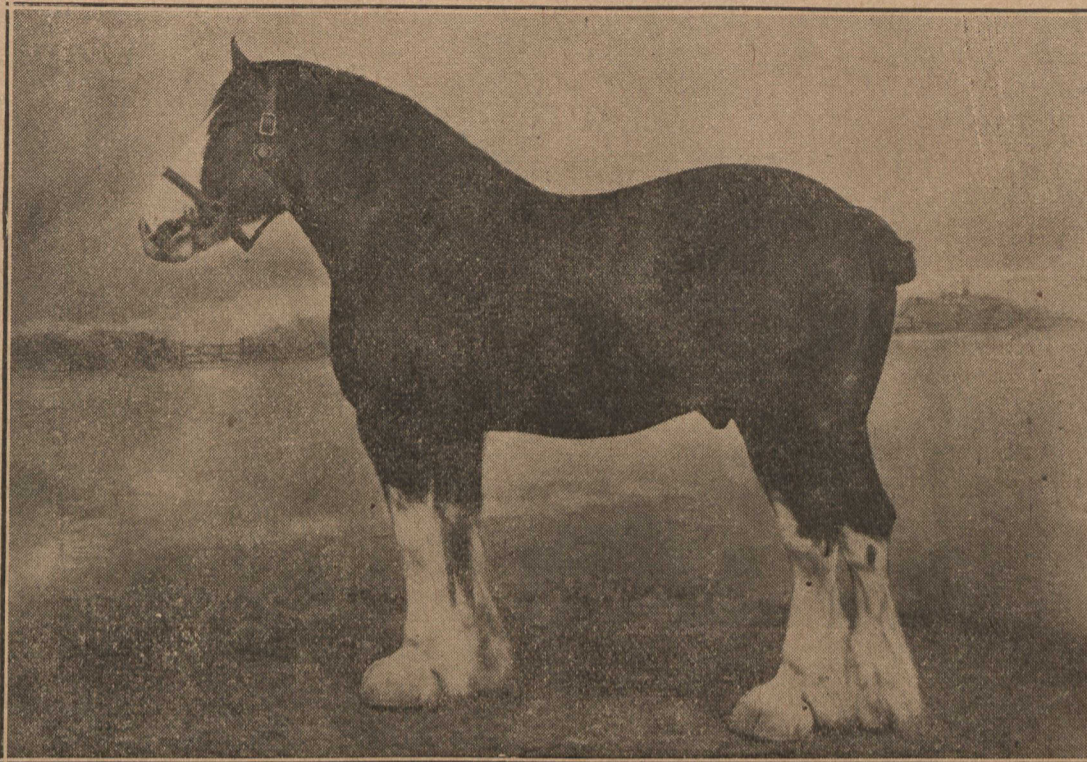
CLYDESDALES are models of draft horse excellence.

CLYDESDALES have clean flat bones.

CLYDESDALES have breeding back of them.

CLYDESDALES breed on and up.

CLYDESDALE type is the last word in constructive draft horse breeding.



NEW IMPORTATION JUST ARRIVED

9 HEAD—4 aged, 3 three-year-olds and three yearling stallions by such sires as "Scotland's Yet," "Mendel," "Dunure Vintage," "Scotland's Victor," and other leading Scottish sires.

AUCTION SALE of CLYDESDALES on Dec. 12th (DURING CALGARY FAT STOCK SHOW WEEK)

I will offer for sale at auction 13 HEAD OF CLYDESDALE STALLIONS from yearlings up. Among them are "Cumberland Stamp" (imp.), "Scotland's Victory" (imp.), "Scotland's Echo" (imp.),

"Scotland's Yeoman" (imp.), "Alberta Sentinel" (imp.), and "Highwood," Canadian bred.

These are all Stallions carrying the best of blue blood and breeding, and the kind required for this Western country. They can be seen at the Exhibition Stables, Calgary, after December 8th.

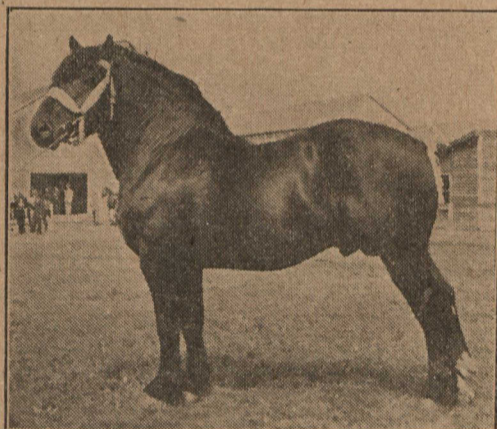
WRITE OR CALL ::

ENQUIRIES INVITED

HIGH RIVER

A. L. DOLLAR

ALBERTA

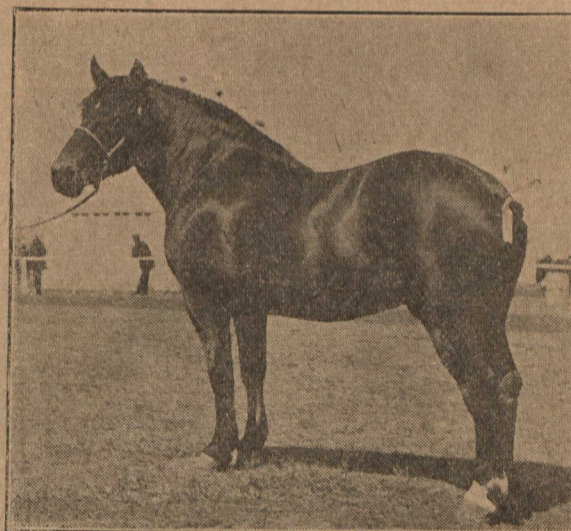


"Caesar De Naz," a well-known Belgian Champion at the Western Summer Fairs. One of my stock horses.

CANADA'S CHAMPION STUD OF BELGIAN HORSES

This Stud is headed by "Comet" 792, a grandson of "Brin D'Or," and "Paramount Wolver" 977, whose sire is "Farceur," sold by public auction, Oct. 16, for \$47,500, said to be the greatest living stallion today.

MY SHOW RECORD OF 1917 IS AS FOLLOWS:



"Beauty" (843), 3-year-old Belgian filly, weighs 2,100 lbs., Champion Female of the breed at Brandon and Weyburn.

BRANDON WINTER FAIR—

First in aged stallions.
First and second in two-year-old stallions.
Second in three-year-old stallions.
Second in yearling stallions.
First in three-year-old and two-year-old mares.
First in yearling mares.
Grand champion stallion and mare.

LAMPMAN SUMMER FAIR—

First and second in two-year-old stallions.
First in four-year-old, three-year-old, two-year-old and yearling mares.
Silver cup for the best animal on the ground of any breed was won by "Amarilla Queen." This cup becomes my property, having won it three times in succession.
First for best team hitched to wagon.

ESTEVAN SUMMER FAIR—

First for brood mare and first for foal.

REGINA SUMMER FAIR—

First and fourth in two-year-old stallions.
First and second in brood mares.
First and second in foals.

I handle nothing but the BEST and am showing quite a number of my STALLIONS and MARES at the Chicago International Exposition this year.

VISITORS ARE WELCOME AT MY FARM

First in four-year-old and three-year-old mares.
Second in two-year-old mares.
First in yearling mares.
First in team, and three best mares owned by exhibitor.
Grand champion mare and reserve champion stallion.

SASKATOON SUMMER FAIR—

Second and third in two-year-old stallions.
Third and fourth in brood mares.
First and fourth in yearling fillies.
First in four-year-old, three-year-old, two-year-old and yearling mares.
First for stallion and three mares.
First for three the get of one sire.
First for two the progeny of one mare.
First for best team, any breed, bred and owned in Saskatchewan.
Canadian-bred and grand champion female.

WEYBURN SUMMER FAIR—

First and second in two-year-old stallions.
First and second in brood mares.
First and third in foals.
First in four-year-old, three-year-old, two-year-old and yearling mares.
First for draft team, any breed, hitched to wagon.
Grand championship for stallion and mare.

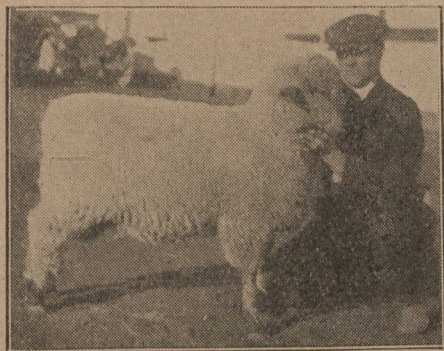
LAMPMAN

GEORGE RUPP

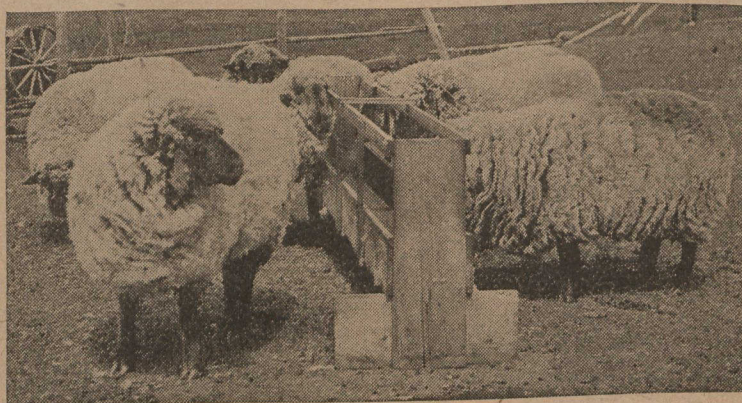
SASK.

- WILLOW RIDGE STOCK FARM -

SHORTHORN CATTLE and OXFORD SHEEP



This Ram lamb was bred by me and sold at the recent Association Sale in Calgary, to the Western Stock Ranches, Cluny, for \$125.



Group of Oxfords at Willow Ridge Stock Farm.

In SHORTHORNS, I have a FEW COWS for Sale, the kind that are good milkers, and desirable beef specimens, and which are sure to bring in good money. I have also SEVEN YOUNG BULLS for Sale, by a son of "Gainford Marquis" and these are of uniform conformation and typey individual charac-

ter, showing clearly that they possess the width and depth and beauty of lines which go to make the good sire.

In OXFORD SHEEP, I have a number of high class ewes, bred to the sire of the \$125 lamb, whose cut is re-produced in this advertisement.

Write me your wants.

Satisfaction guaranteed and Prices right

H. S. CURRIE

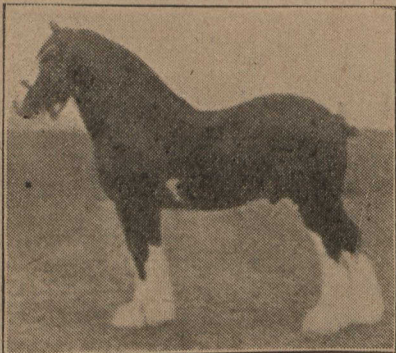
CASTOR

ALBERTA

-The Kilallan Stock Farm-

CLYDESDALES

I have for immediate sale the Clydesdale Stallion "Cumberland Seal," (imp.) 14769, 17209, foaled June 19, 1911. Sire "Cumberland Stamp," 14834, by "Lothian Again," 7430. Dam "Royal Kate," 24349, by "Blacon Baron," 4908.



This sire has left me a large number of the right kind of breeding stock of true draft type, combining size and quality. My reason for parting with him is on account of his fillies coming back to him.

Buyers can also have the choice of colts and fillies by such good stock getters as "Baron's Henschman" and "Dunure Pebble," out of mares by "Everlasting," "Pride of Blacon," "Baron Winsome," "Cumberland Seal" and others of the most fashionable breeding. Size, substance and quality are fully maintained in Killallan Stock Farm Clydesdales. I have some particularly nice young animals, both sexes, for immediate sale.

WRITE FOR FULL PARTICULARS

N. A. WEIR

OHATON

ALBERTA

UNRESERVED

AUCTION SALE OF HOLSTEIN FRIESIAN CATTLE

The White Star Ranch, Munson, Alberta

WILL SELL AT

THE EXHIBITION GROUNDS, VICTORIA PARK, CALGARY

ON

Friday, 14th December, 1917

Their high-class Dairy herd of Holstein Cattle.

Owing to a change in farming operations, and the scarcity of labor, it has been found necessary to disperse this good herd, and the stock offered will include among others the following:

Sir Lyons Walker, No. 139109, the richly bred three-year-old Stock Bull, bred by H. A. Moyer, Syracuse, N.Y. Several of his calves are also in this sale.

Princess Hanna, No. 13181, calved Feb. 10th, 1910, made 17 lbs. butter in 7 days official, Nov., 1917. Freshened Oct. 23rd, 1917.

Jean Ormsby Princess, No. 43044, calved Oct. 26th, 1915, daughter of Princess Hanna, bred to Sir Lyons Walker, due to freshen Jan. 10th, 1918.

Victoria Korndyke Pontiac, No. 17005, calved Mar. 20th, 1911, gave 19.50 lbs. butter in 7 days official, Nov. 1917. Freshened Oct. 20th.

Victoria Johanna Burke, No. 14491, calved May 5th, 1910. As senior 2 year old in 7 days made 17.5 lbs. butter, officially tested. She was 1st all breeds competing in 2 days dairy test at Calgary, 3 years in succession. Best day's milk, 82 lbs.—bred to Sir Lyons Walker, Sept. 13th, 1917.

Heifers from these cows will also be sold, also other cows of good milking strain. Write for catalogue—ready Dec. 1st.

TEAMS—CASH, UNLESS OTHERWISE ARRANGED.

IRVINE HAMBLY & SONS

OWNERS

MUNSON

ALBERTA

nature when moist, and should not be fed.

Briefly to summarize the feeds, one might say that the character and quantities of feeds depend largely upon market conditions and feeds available. A ration including some good succulent roughage and properly balanced as to nutritive contents will almost invariably give greatest profits. Generally speaking, it will not pay to exceed 1 1/4 pounds of grain per lamb at the finish, nor will it be profitable to feed more than 5 pounds of succulent roughage and 3 to 5 pounds of dry roughage per head per day at any time during the finishing period.

Cost of Equipment

The cost of equipment for the finishing of lambs is very light. Warm quarters are not necessary for sheep of any class. Sheltered sleeping quarters, free from draughts and having a dry floor, are usually all that is required. A good, tight, single-board shed with doors opening to the south or, for the Prairie Provinces, a straw shelter or even the protection of the bush or the straw stacks, would, under average conditions, be ample for this purpose. Cheap, convenient racks and troughs, or a combination rack and trough, will cost little per carload of lambs fed and, if made portable, may be used for both summer and winter feeding. No other class of stock requires so little in cost of equipment, in buildings, utensils, preparation of feeds, or in any other way as do sheep. In these days when labor is

derived from the formation of the proposed association the meeting appointed committees to draft up a constitution and resolutions.

While the committees were at work the other breeders were shown over the buildings and grounds connected with the School of Agriculture by Prof. W. J. Elliot, principal of the school.

The breeders having been invited by the Hon. Duncan Marshall to visit his home, the Elderslie Stock Farm, located about eight miles N.E. of Olds, accepted the invitation and visited the farm after lunch, Mr. Marshall having provided cars.

After spending an hour or two looking over the fine herd of Shorthorns owned by Mr. Marshall which of course includes the animals which he is disposing of at his stock sale in Calgary on Dec. 13, 1917, the party returned to the school and resumed organization work.

The meeting decided to accept the report of their committees and the association was formed to be known as The Provincial Shorthorn Breeders' Association of the Province of Alberta. Its officers are:

Honorary Pres., Hon. Duncan Marshall.

Hon. Vice-Pres., A. E. Meyer.

President, Senator P. Talbot.

First Vice-President, Wm. Sharp.

Second Vice-President, H. Wright.

Secy.-Treas., C. G. Beeching.

Directors: W. J. Sissons, A. S. Fowler, G. G. Carlyle, J. H. McArthur, O. H. Patrick, O. C. Arnstad, W. D. Latimer.

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meets every modern building requirement for interior Walls and Ceilings.



GYPSOFIBRE WALL BOARD

consists mainly of Gypsum—that indispensable building material from which all reliable Wall Plasters are made, mixed with fibrous wood—to give strength and toughness for effective nailing—rigidly compressed between two layers of high grade fibre binding. Standard thickness 5-16in. Made in sizes 32x36, 32x48 and 32x60.

ADVANTAGES OF GYPSOFIBRE OVER COMMON WALL BOARDS:

- It is Fire Resisting
- It is a Nonconductor of Heat and Cold
- It is a Nonconductor of Sound
- It will not Warp or Buckle
- It makes Permanent Walls
- It is Economical in Price, and
- GYPSOFIBRE is the only Canadian made Wall Board that can be successfully used either as a Panel Board, or as a Lathing material instead of wood or metal lath.

SOLD EVERYWHERE IN WESTERN CANADA

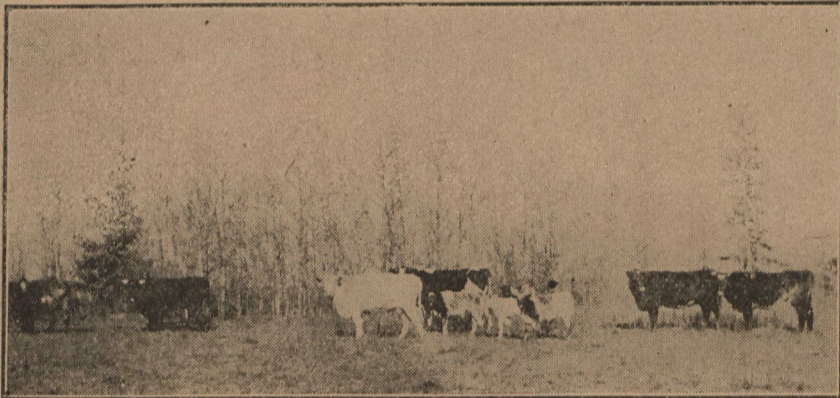
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MANITOBA GYPSUM COMPANY Ltd.

WINNIPEG

MANITOBA



Though leaves are down cattle do well in the open with their calves in Sunny Alberta. All are included in P. M. Bredt & Co.'s big dispersion sale, Dec. 11, 1917.

extremely scarce, this phase of animal husbandry should appeal strongly to the farmer who has not sufficient labor to go into dairy husbandry, swine, or even beef cattle.

SHORTHORN BREEDERS ORGANIZE

A meeting of the Shorthorn cattle breeders of the province was held on Monday, Nov. 12, 1917, at the Provincial School of Agriculture, Olds. The convention had been called by a number of the prominent breeders so that the question of the organization of a provincial Shorthorn Breeders' Association might be considered.

The attendance was fairly large and representative, there being about forty shorthorn breeders present besides a number of others interested in matters affecting the promotion of the interests of the Shorthorn breed.

The convention was fortunate in having in attendance Mr. Wm. A. Dryden, of Brookline, Ont., the president of the Dominion Shorthorn Breeders' Association.

Mr. Wm. Sharpe, Pres. of the Alberta Provincial Cattle Breeders Association was made chairman of the meeting and Mr. C. G. Beeching, Nanton, Secretary.

After listening to addresses from prominent breeders including the Hon. Duncan Marshall, Minister of Agriculture, Mr. Wm. A. Dryden, Senator Peter Talbot of Lacombe and A. E. Meyers, assistant superintendent of Alberta Demonstration Farms expounding on the advantages to be

The next annual meeting of the association will be held in Calgary in November, 1918. The exact date to be decided by the officers during the year.

The membership fee was set at \$3 and 34 breeders paid their fees and joined the association.

It was of course realized that but a small proportion of the Shorthorn breeders of the Province was in attendance at the meeting but arrangements were made so that all breeders who were not able to attend this meeting could join the association by forwarding their name, address and membership fee of \$3.00 to the Sec.-Treas., Mr. C. G. Beeching, Nanton. After the business of the meeting had been disposed of the breeders were invited to a banquet by the staff and students of the Olds Provincial School of Agriculture.

The after-dinner speakers included the Hon. Duncan Marshall, Wm. A. Dryden, Senator Peter Talbot, Mr. Wm. Sharpe, also Messrs. A. E. Myers and S. D. Carlyle, of the Demonstration branch of Provincial Dept. of Agriculture.

The constitution as drawn up by committees was accepted and resolutions were passed as follows:

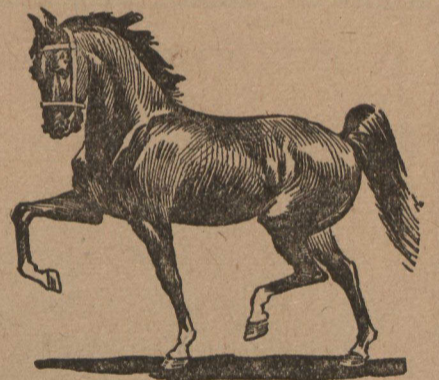
Resolved that the Alberta Provincial Shorthorn Breeders' Association in convention assembled, places itself on record as being strongly in favor of having complete reciprocity in herd book registrations, between Canada, Great Britain and the United States.

Resolved that the Alberta Provincial Shorthorn Breeders' Association

Horses Needed

for the Army

Top Prices Paid—but the Animals MUST BE SOUND



You are truly doing National Service, when you sell to the Government, horses sound in limb and body.

Every branch of the Service needs our sturdy mounts.

But inspectors are not interested in lame or blemished horses—they must be sound.

ABSORBINE

Puts your Horses in condition to command top prices

Have you a horse which might be rejected because of a Spavin, Thoroughpin, Bursal Enlargement, Shoe Boil, Capped Hock, Swollen Gland, Thickened Tissue, Enlarged Veins, Rheumatic Deposit, or any Puff or Swelling?

ABSORBINE will remove the blemish—stop the lameness—strengthen the weak part—make the horse sound.

ABSORBINE does not blister or remove the hair; absolutely safe; and the animal can be worked while being treated.

ABSORBINE is economical, because only a few drops are required for each application.

\$2 a bottle—at druggists or sent post paid on receipt of price. Book "A" free.



W. F. YOUNG, P.D.F. 122 LYMANS BUILDING MONTREAL, Can.

Bow River Ranch Clydesdales

REGISTERED MARES FOR SALE

At Exhibition Grounds, Calgary, on
Thursday afternoon, December 13,
during Fat Stock Show Week.

12 REGISTERED CLYDESDALE MARES

well bred, all good producers, ranging in age from four years old up. Some of them have been well known prize winners at Calgary Fairs, and all are believed to be safe in foal. Not one of these mares has brought me less than \$1,000 from foals. They will weigh from 1600 to 1800 lbs.

TO BE SOLD WITHOUT RESERVE.

TERMS CASH.

G. E. GODDARD

Bow River Horse Ranch

GLENBOW - - - ALBERTA

J. W. DURNO, Auctioneer,
Calgary.

Cold Springs Stock Farm

BREEDER AND IMPORTER OF

Registered Holstein Cattle and O.I.C. Swine



"Forester," No. 14332 57413 (O.I.C.) Bred by the L. B. Silver Co., Cleveland, O. Farrowed April 15, 1916.

Young Bulls on hand from high record cows. Herd Tuberculin tested and prices reasonable.

In my herd is also C. C. Haig, a boar sired by "Schoolmaster," the highest priced boar of the breed, and Grand Champion at the 1916 Chicago International.

EARLY FALL PIGS for sale, sired by Forester, and later sows bred to any one of my three imported Boars.

G. E. WHITE - - - Lacombe, Alta.

HEREFORDS! HEREFORDS!!

Clifford still pays the freight, Manitoba, Saskatchewan, Alberta.

A number of Bull Calves for sale, half brothers to "Lord Fairfax 5th," Junior Champion and Reserve Grand Champion at all the Western, 1917, Summer Fairs. All these calves are sired by "Lord Fairfax." Also a number of young heifers. Car loads a specialty. Satisfaction guaranteed.

Write,
L. O. CLIFFORD

OSHAWA, ONTARIO

would recommend to the Dominion Shorthorn Breeders' Association that historical literature with respect to shorthorn cattle, be published by the said Association, in pamphlet form, for distribution among breeders and others interested in raising good cattle; that these pamphlets be compiled with a view to giving brief sketches of the past history of Shorthorn cattle, and the breeders thereof, and also of their present-day achievements.

Resolved that the Alberta Provincial Shorthorn Breeders' Association place itself on record as strongly favoring a closer inspection and weeding out of undesirable bulls offered for sale at auctions conducted by the Cattle Breeders' Association of the Province.

Resolved that the Alberta Provincial Shorthorn Breeders' Association memorialize the Dominion Shorthorn Breeders' Association to give a special prize of \$200 to the champion steer at Canadian Fat Stock Shows, when the said steer is sired by a Shorthorn bull.

And resolved, that the Alberta Provincial Shorthorn Breeders' Association would recommend to the Dominion Shorthorn Breeders' Association that two Field Agents be employed by the said Dominion Shorthorn Breeders' Association, for the purpose of promoting the interests of the breed throughout Canada; that one of these agents be charged with work for the Association in the Provinces of Manitoba, Saskatchewan, Alberta and British

chasing several of the best horses for its various experimental farms.

Some of the most notable sales were:

Moselle, Dominion Govt. Farm, Indian Head, Sask., \$1,250.

Boquhan Queen and colt, Colony Marcellus, Dominion Government Farm Indian Head, Sask., \$1,150.

Welcome Guest, F. W. Rounsfell, Vancouver, B.C., \$1,100.

Colony Peggy, Dominion Govt Farm, Indian Head, Sask., \$1,100.

Solway Princess and colt, Colony Everlasting Favorite, D. Montgomery & Sons, Ladner, B.C., \$1,025.

Colony Jess, D. Montgomery & Sons, Ladner, B.C., \$850.

Colony Belle, Dominion Govt. Farm, Indian Head, Sask., \$800.

Colony Warrior, J. W. Forrester, Nateby, Alta., \$750.

Colony Heiress, J. W. Forrester, Nateby, Alta., \$550.

Bowhill Baron, B. Finlayson, Olds \$550.

SHEEP FOR SOUTH ALBERTA

The ranchers and farmers of Southern Alberta are still heavy buyers of sheep and a million sheep in Southern Alberta within the next couple of years is the prediction of Mr. J. L. Peacock of Lethbridge the big sheep man.

As an indication of the manner in which farmers and merchants throughout the South are entering the sheep business it may be mentioned that Mr. Peacock has, during the fall sold in the neighborhood of 13,000

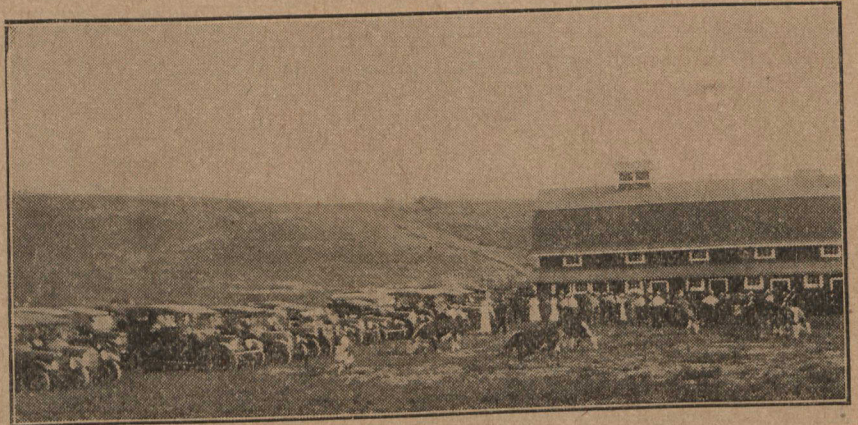


Photo taken at Frank Collicut's ranch last Summer when he entertained the Calgary Auto Club. A very large number of Calgary's citizens accepted his hospitality on that occasion and the accompanying photo shows some of the cars and a portion of the crowd.

Columbia, and the other be charged with similar work in Ontario, Province of Quebec, and the Maritime Provinces; that these two Field Agents be entirely under the direction of the Dominion Shorthorn Breeders' Association, so that their work may be carried on in a co-operative manner, and that they exchange places from time to time, in order that they may become conversant with the entire field of operations throughout Canada.

Resolution

Resolved that the Alberta Shorthorn Breeders' Association in convention assembled do recommend its members and other Shorthorn breeders resident in the province who are members in good standing of the Dominion Shorthorn Breeders Association to support as directors of the Dominion association Messrs. J. L. Walters, Clive, Alta, and A. D. Paterson, Ladner, B.C.

HORSE SALE AT COLONY FARM

At the sale of Clydesdales and Shire horses which was held at Colony Farm, Coquitlam, B.C., on Oct. 23rd, 1917, thirty-two animals were disposed of.

Upward of two hundred and fifty prospective buyers were present and comprised breeders from all parts of Canada even from as far east as Nova Scotia.

Of the horses sold twenty-two remained in British Columbia and it is to be noted that the Dominion Government was a heavy buyer pur-

sheep, and these have mostly gone in small lots. Eleven of these lots have been taken by farmers who are only starting in the sheep business.

Recent sales made by Mr. Peacock include 520 wethers to Lathrop and Delaney, Coaldale, who will experiment in winter feeding with alfalfa, 300 yearling ewes to J. F. Neilson of Cardston, and 20 bucks to W. G. Smith of Leavitt, who recently secured 1,200 ewes from Mr. Peacock. From these figures it would appear that the industry is really only now getting a foothold among the farmers.

PATRICK SHORTHORN SALE

Good prices were the order of the day at the J. H. Patrick sale of Shorthorn cattle which took place at Lethbridge a few days ago.

Thirty head of choice heifers brought an average price of over \$300 the highest price realized being \$600 for a "Viceroy" heifer a daughter of "Martha 16th" and a really splendid animal. The bulls averaged well over \$400, the highest priced bull bringing \$575. When these figures are compared with those which prevailed a very few years back they are very satisfactory. The breeders of even recent years thought \$150 a long price for a heifer of even the most fashionable breeding.

Keep the sleeping places dry and clean in caring for the Fall litter, as pigs are very susceptible to rheumatism if exposed to chill and dampness.

ADOPTS A NEW NAME

The name of the Taylor-Critchfield-Clague Company, one of the largest advertising and merchandising concerns in the U. S. has been amended to Critchfield & Company, by the unanimous vote of its stockholders.

This means no change whatever in the personnel or control of the organization, except that Mr. Stanley Clague, whose release was granted a few weeks ago in order that he might accept the management of the Audit Bureau of Circulations, is no longer connected with it.

Major E. E. Critchfield has been active in the Company in an official capacity since the founding of the organization and has been its president for nearly six years. Under its new title the management of the organization, its standard of principles and the make-up of its directorate are the same.

This formality in the way of change of name means no revision of policy. The company will continue to serve its clients in the way that has enabled it to arrive at its present position in the advertising field.

A HANDBOOK ON THE DEBATING CLUB

Why cannot we have a few live debates in our school houses during the coming winter? That is a question that the intellectual leaders of many a rural community are asking themselves just now. And echo answers "Why Not?"

It is true that many young men are away at the war; and it is also true that Red Cross and other activities are engaging the attention of many people; yet, in spite of all this, there are still a great number of young and middle-aged married folks, young women and advanced youths—yes, and older people as well—who would thoroughly enjoy and profit by a hearty debate now and again, relieving the monotonous stretch of the long winter evenings. And as the knitting may be taken along, the time need not all be lost, either.

As a right-close-at-home, self-acting, post-graduate means of polishing up an education, and of wearing the rust out of the joints of one's mind, there are not many institutions more effective than the debating club. A winter's experience as a leader in such a line of activity has helped many a young man really to discover himself, and has inspired and helped to fit him to become a public leader in other community enterprises as well.

To guide those who may wish to conduct a series of debates, G. A. Sproule, Professor of English at the Manitoba Agricultural College, has written a 16-page bulletin entitled "Debating Clubs." This bulletin goes fully into such questions as how to organize, duties of officers, how to plan a season's program, how to debate, how to judge debates, and how to do business in a parliamentary manner. A list of 40 suggested topics of debate is appended.

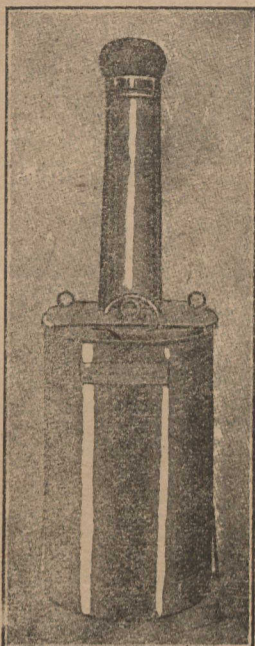
Free copies of the bulletin may be had either from the Manitoba Agricultural College or the Publications Branch, Manitoba Department of Agriculture, Winnipeg.

ANOTHER BIG IRRIGATION DITCH FOR SOUTH

In preparation for the extension of the A. R. & I. irrigation system east and south of Lethbridge to supply irrigation water to the Taber project, the C.P.R. has run lines for a big irrigation ditch in the south for the purpose of draining the necessary volume of water from the Belly river west of Cardston into the St. Mary's river. Only the preliminary steps have been taken, but the scheme has been found to be feasible.

The plan is to take the water from the Belly river, which rises in the vicinity of Waterton Lakes park, and carry it east through a ditch through Leavitt and empty it into the St. Mary's river above the present intake of the A. R. & I. main ditch.

SHEET METAL MANUFACTURING CO. LIMITED
MANUFACTURERS



Our Trough Heaters are made of heavy sheet steel, with cast top and grate. The seams are welded, and are water tight.

Size: 14 In. Diam. by 24 In. High. Price - - - \$8.00

One of our CORRUGATED STEEL TROUGHS and a HEATER is a necessity on every farm.

We make Corrugated Water Troughs and Storage Tanks, any size to suit your requirements.

For Sale by Leading Hardware Merchants, or you can order direct from us.

OUR CATALOGUE OF FARM SPECIALTIES IS FREE. SEND FOR ONE.

P. O. BOX 1078

CALGARY, ALBERTA

This great project is made necessary owing to the great drain on the present waters of the St. Mary's. The waters of the St. Mary's are now practically all used. The United States reclamation service is taking a large volume of water from the St. Mary's for the Milk River reclamation project near Havre, Mont. The ever-increasing irrigation area on the A. R. & I. ditch is taking more and more water, and in August of this year the St. Mary's river below the irrigation system intake was so low that it could be crossed almost anywhere with an automobile.

It is understood the C. P. R. intends to commence work on the Taber project next year, and if so the diverting ditch through Leavitt will also be put under construction.

WORK OF THE EXPERIMENTAL FARMS

For the convenience of specialists, farmers, and others interested in the different lines of agriculture dealt with in the three-volume annual report of the Dominion Experimental Farm, the several subjects have been issued in separate pamphlet form. These include the reports of the Dominion Animal Husbandman, of the Dominion Cerealist, of the Dominion Horticulturist, of the Supervisor of Illustration Stations, of the Dominion Apiarist and of the Dominion Tobacco Husbandman. Any of these reports can be had on application to the Publications Branch, Department of Agriculture, at Ottawa.

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Domestic Science Gymnastic Training Course Home Nursing

The Hill School
51 ST. CLAIR AVE. WEST

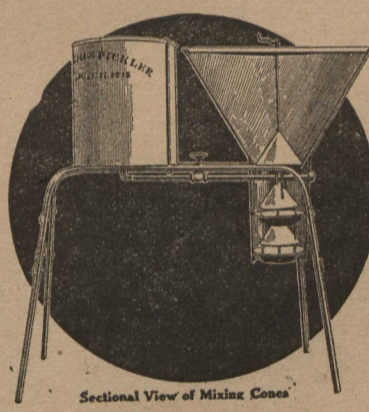
Boarding and Day School Large Grounds Games

Junior School
278 ELOOR ST. W. (Late Westbourne)

Preparatory and Kindergarten for Boys and Girls

TERM OPENS JANUARY 10

MISS KNOX, PRINCIPAL, TORONTO



Sectional View of Mixing Cones

BUY A "FOX"

The Most Efficient, Best Constructed, Automatic One-Man Grain Pickler on the Market.

Construction—26 gauge galvanized iron, with steel frame; no wood used.

Capacity—125 bushels per hour.

Efficiency—Thoroughly sprinkles and then turns the grain over four times.

PRICE: Galvanized Iron for Formalin - \$18.00 Strongest Pickler ever sold. Lasts a life-time, and gives constant satisfaction.

For further particulars write to W. J. BELL, 101 Simpkins Blk., Regina, Sask.

WHEN WRITING ADVERTISERS, KINDLY MENTION THE "REVIEW"

THE BULL DOG FANNING MILL

The Bull Dog is the fanning mill that gives best returns for time and money invested. It is equipped with galvanized, non-rustable screens and zinc sieves. It is the only mill with patented, non-sagable sieves, supported with angle irons so they cannot sag. Its work is unequalled for cleaning all kinds of grain.

We sell over 5,000 of these mills in Western Canada yearly and they give perfect satisfaction. They are fully guaranteed, strongly built, hardwood frame—bolted, not nailed. Seager Wheeler, the Wheat King, who won the World's First Prize for Marquis Wheat, has used ONLY the Bull Dog for the past five years. This is the famous mill manufactured by the Twin City Separator Company of Winnipeg.

Should your local Agent not handle the BULL DOG, write for descriptive catalog before you put any money into a fanning mill. Investigate the Bull Dog and remember that the man who buys the best is never sorry.

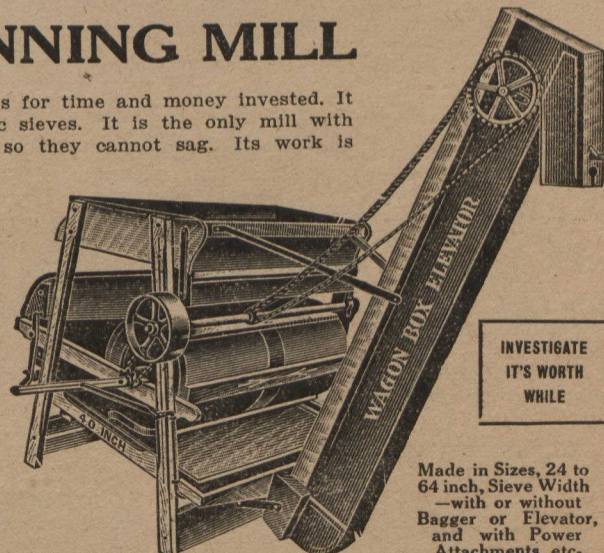
R. W. DOW

EXCLUSIVE Jobber and Selling Agent for Central and Southern Alberta.

1007 FIRST STREET EAST, CALGARY, ALBERTA

P. O. BOX 1406.

PHONE M3128.



INVESTIGATE IT'S WORTH WHILE

Made in Sizes, 24 to 64 inch, Sieve Width—with or without Bagger or Elevator, and with Power Attachments, etc.

SPECIAL UNRESERVED AUCTION SALE

Instructed by the owners I will offer for sale the entire stock of PERCHERON BRED HORSES from the Ranch of GILCHRIST BROS., Battle Creek, who are going out of the Horse Business and also from the Ranch of LINDNER BROS., Maple Creek.

AT

ALBERTA STOCK YARDS, CALGARY

ON

Wednesday, Dec. 12th, 1917 at 1 o'clock

390 HEAD OF HORSES

COMPRISING:

- 40 HEAD MARES and GELDS, 1,300 to 1,500 lbs. Shire and Clyde Bred, all halter broke, 3 to 4 years old.
- 100 HEAD MARES, 1,300 lbs. and over (50 head have been worked).
- 50 HEAD GELDS, 1,300 lbs and over (mostly broke).
- 30 HEAD MARES, 1,000 lbs. and over (have all been bred).
- 30 HEAD GELDS, 1,050 lbs. (including extra good saddle horses).
- 40 HEAD TWO YEAR OLDS. Good boned. (Percheron bred).
- 40 HEAD YEARLINGS. Good boned. (Percheron Bred).
- 60 HEAD SUCKING COLTS. Good boned. (Percheron Bred).

NOTE: The above will be sold in lots to suit purchasers and absolutely without reserve. The mares have all been bred to the best Imported Percheron Studs in the country.

A. LAYZELL, Auctioneer
CALGARY - - - ALBERTA
TERMS CASH. PHONE M2260

WINTERING IDLE FARM HORSES ON THE PRAIRIE

With the advent of the winter and the completion of the season's work farmers are considering the best methods of wintering their idle farm horses. For years the general practice throughout the Indian Head district and in other parts of the Prairie Provinces has been to turn idle horses loose to rustle as best they may on the open prairie, around straw stacks, and, quite frequently, around a neighbor's granary, resulting in serious losses to farmers. However, before adopting this as the most economical practice, farmers interested in the future of the horse industry should consider the efficiency of their horse power in the spring after being wintered under such conditions; their growth and development, especially of the colts; and the loss through abortion and other unnatural conditions.

On the other hand, the pampering of idle horses, and especially of brood mares, is detrimental to their condition for spring work and also to strength of foals. For the past few years experiments have been conducted at the Indian Head Experimental Farm relative to the different methods of wintering idle horses. The work horses were divided into three lots of four each. The experiment lasted ninety days. Horses were weighed before and after the experiment.

Lot 1 were kept on light work, such as hauling feed, straw, manure, etc. Their daily ration consisted of one pound oat chop to every 100 pounds live weight with the addition of one pound bran per horse per day, and all the good hay they would eat. The average gain per head during the experiment was 31 pounds, and the average feed cost was 29.8 cents per head per day.

Lot 2 consisted largely of brood mares in foal and were allowed sufficient exercise to keep in good shape. Their daily ration consisted of four pounds oat chop, two pounds bran, eight pounds hay, and all the good oat straw they would clean up. The average gain in weight was 80 pounds per head and the average feed cost was 12.9 cents per head per day.

Lot 3 were turned out daily and allowed the freedom of a straw stack and stabled at night. Their daily ration consisted of five pounds oat chop, one pound bran and all the oat straw they would eat up clean. The average gain during the experiment was two pounds per head and the average feed cost per day was 9.85 cents per head.

From the foregoing results it will be noted that Lot 1 made an average daily gain of approximately one-third pound per head; Lot 2 made an average daily gain of .88 pound per head; (of course, this is only to be expected with mares in foal). Lot 3 remained practically the same.

From observations during the spring after the horses were put to work it was noted that those having done light work during the winter were in much better shape to withstand the heavy spring work. Even the brood mares were in better shape than Lot 3 which received only the maintenance ration.

It is obvious that farmers are losing thousands of dollars annually by careless methods of handling their idle horses and brood mares.—Experimental Farm Note.

STABILITY IN HOG PRICES

When asked to increase his output of hogs, it is only natural that the farmer should inquire what is being done to protect him from loss. The result of any action to increase hog production which may be taken at the present time will not be apparent on the market until about twelve months have elapsed, and the farmer fears that something may happen within twelve months which will influence the price of hogs, and possibly wipe out his profit. It is only fair, therefore, that a clear statement should be made as to what has been done and what is under way to protect the interests of the farmer.

Our Food Controller has made an

announcement that the profits of packing houses will, in future, be limited, and, that such action will be taken that the farmer who produces the hogs shall receive as his share a fair proportion of the proceeds derived from the sale of the hogs. This action on the part of the Food Controller brings about a condition of affairs such as never before existed in this country, and should help to give the farmer confidence that his interest will be protected and that he will not be left at the mercy of any large corporation.

In addition to the action of our own Food Controller, we are assured by Mr. Joseph P. Cotton, Chief of the United States Food Administration, Meat Division, that the Food Administration will see that the producer at all times can count on a fair price for his hogs. He also states that a rigid control of the packers will be established and that serious breaks in prices of hogs will be stopped. He closes his statement in the following words:

"Let there be no misunderstanding of this statement. It is not a guarantee backed by money. It is not a promise by the packers. It is a statement of the intention and policy of the Food Administration which means to do justice to the farmer."

In the Breeders' Gazette of Chicago, under date of November 15th, the announcement is made that the buying power of the United States government, both on its own account and that of its allies, will be utilized for the purpose of stabilizing the hog market. Whenever a heavy run of hogs occurs, the Food Administration will support the market by placing heavy orders so that the packer will not be under the necessity of hedging in the provision pit against the daily cost of his hog drive.

Further, it is stated that American packers' cellars have never been so bare of hog product at the inception of a winter packing season as this year. During October, thirty-one million pounds of meat were taken out of Chicago warehouses alone, and a similar raid was made at other points.

If we consider carefully the facts which have been stated regarding the attitude of Canadian and American Food Controllers, we must come to the conclusion that there is very little danger that a serious break in hog prices can occur. Influences which are brought to bear in connection with United States markets are bound to reflect in turn upon our Canadian market, and the lack of supplies on hand in the United States, together with the decision of the American Food Administration to support the market when a heavy run of hogs takes place, should give the farmers confidence that hog feeding gives promise of being a profitable branch of stock raising, and that the farmer who responds to the world demand for increased production of meat at the present time cannot very well suffer financial loss.

CALF FEEDING COMPETITION FOR EDMONTON SPRING SHOW

The Edmonton Exhibition Association, with the object of encouraging the boys and girls to take greater interest in the rearing and caring for live stock, have decided to make a calf-feeding competition one of the chief features of the Spring Show, which will take place April 2 to 6, 1918. The first prize will not be less than \$100 and from fifteen to twenty prizes will be given. No entry fee will be charged. The following conditions have already been decided upon:

Rules of Competition

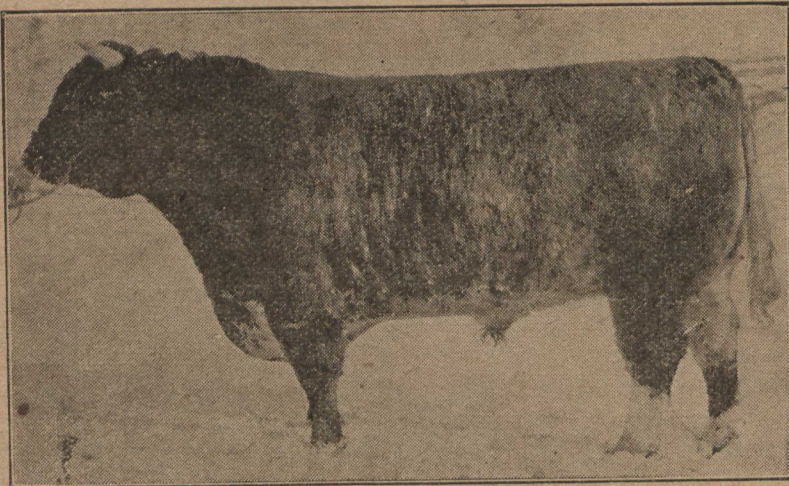
Open to boys and girls over nine and under seventeen years of age.

Open to steers or grade heifers calved in 1917.

Competitors must have fed, cared for and fitted the animal from the first of January, 1918, and must personally exhibit the animal in the show ring when judged or paraded.

One or more entries may be made from one family or farm, but each competitor can only make one entry.

KINMEL SHORTHORNS



"MISSIE'S PRINCE," One of the Greatest Sires of the Breed

Herd headed by "MISSIE'S PRINCE" by "Prince Imperial." "MISSIE'S PRINCE" was a well-known prize-winner at all the leading shows throughout the Dominion and one of the greatest sires of the breed. His sire sold for \$10,000 at Chicago.

Owing to a shortage of feed we are offering all the 1917 Heifer Calves by this great bull at the ASSOCIATION SALE AT CALGARY,

THURSDAY MORNING, DECEMBER 13, 1917

This blood is valuable, and this sale is one of the few rare opportunities to purchase really high-class stock.

T. BERTRAM RALPHS

PHONE RURAL 811

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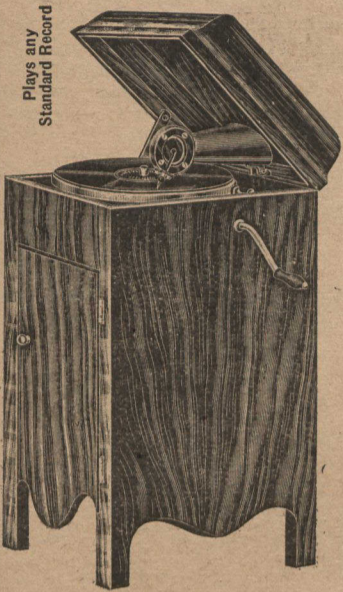
BOX 2311, CALGARY, ALBERTA

Have You a Copy of Our Wonderful Free Catalog

showing thousands of articles to make your home comfortable. It will make dollars do 20 to 50 per cent. better when purchasing. Send a postal card today for your copy, it's free.

25⁰⁰ The Widely Advertised Talking Machines are now offered in a limited number of Xmas purchases at Special Delivered Prices. Every Machine Guaranteed. 48⁰⁰

CAROLA The Nightingale of Phonographs PRIMOLA



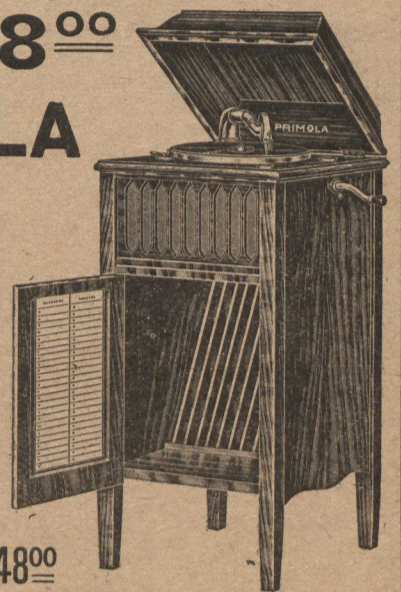
Plays any Standard Record

Carola You must hear the sweet strains of this Carola to appreciate its richness. And remember if it does not satisfy you in every way, ship it back at our expense, and it will not cost you a penny. Possesses a richly finished steel mahogany cabinet, 31 in. high, when open, 13 in. wide, 11 in. deep. Nickel plated No. 1 sound box. Tone arm is of violin fibre, eliminates any rasping, metallic ring. Brake and speed regulator. Double spring, spiral drive motor (can be wound while playing). Observe lift cover as found on machine sold elsewhere at 50 per cent. more. Shipping weight, about 40 lbs.

No. 402—Price Delivered any town in Man., Sask. or Alta. 25.00

Your Opportunity You don't have to be deprived of the pleasure of hearing the great singers just because they may not happen to visit your home town. With this excellent instrument you can hear your favorite singer render your favorite selections as often as you've a mind to. This one can be secured with a fumed oak or mahogany cabinet. Is 38 1/2 in. high, 16 in. wide, 17 in. deep, large turntable. Nickel-plated Primola sound box, tapering tone arm and goose neck sound box tube, brake, speed regulator and indicator. Extra heavy double spring, spiral drive motor (can be wound while playing). All metal parts nickel plated. Shipping weight about 85 lbs.

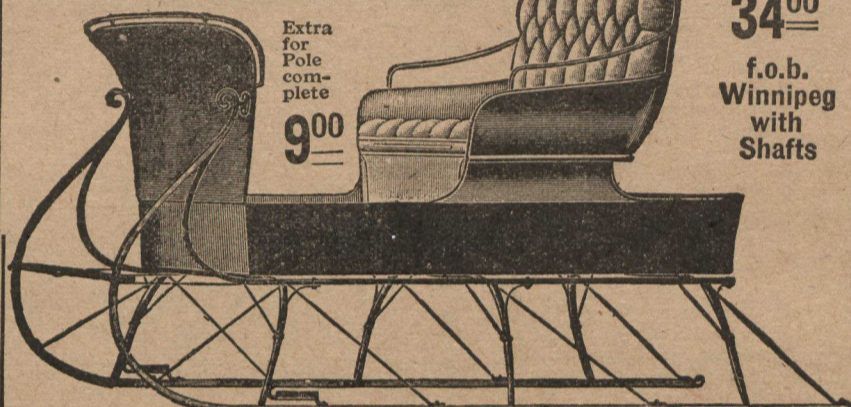
No. 404—Price Delivered any town in Man., Sask. or Alta. 48.00



48⁰⁰

At Your Station 38 1/2 in. High, 17 in. Deep, 16 in. Wide Fumed or Mahogany Finish
The Primola will play equal to any machine you can purchase. If you don't approve of it on arrival send it back at our expense. Large record cabinet in base. Gilt finish.
No. 2720—Mahogany 48.00
No. 2721—Fumed. Delivered 48.00

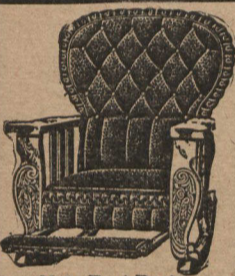
PIANO BOX CUTTER



Extra for Pole complete 9⁰⁰

34⁰⁰ f.o.b. Winnipeg with Shafts

No. 6050—PIANO BOX CUTTER—Body is standard size, painted black, decorated and with seat trimmed in cloth. Arm rails and dash rail are nickel-plated. Back of the body fitted with a boot. Gear is painted green and striped. Steel shoeing on the gear, and the knees and cross-beams are well ironed and braced. Shafts are two-bar shifting cutter style, for use, either side-draft or centre-draft.
No. 6050—Price at Winnipeg, complete, with shafts \$54.00
No. 6051—Price at Winnipeg, with pole, without shafts \$39.00



Big Solid Oak Morris Rocker

A big value shown in our catalogue, has adjustable foot rest, full spring seat, full tufted adjustable back covered with high grade imitation leather. The frame is made of solid oak in a beautiful fumed finish.
No. 1491—Winnipeg Special price 12.50

Note Foot Rest

Comfort in this Solid Oak Rocker

At a price you can easily afford to pay. Has spring seat and neatly shaped back, covered in a high grade imitation leather. Frame is extra strong and made of solid quarter cut oak, golden finish. This is a good sample of our big values.



No. 1332. Price at Winnipeg 9.75

Order the CHALLENGE WASHER

The clothes are placed between the two rub boards and are rubbed, then squeezed, the hot soapy water being forcibly driven through every fibre. All wood parts are made of Louisiana Red Cypress. Has wringer attachment which allows water to flow back into machine. With this Washer you will have your washing done in half the time. A few turns of the handle and out come the clothes perfectly clean. Order one on trial from this advertisement.



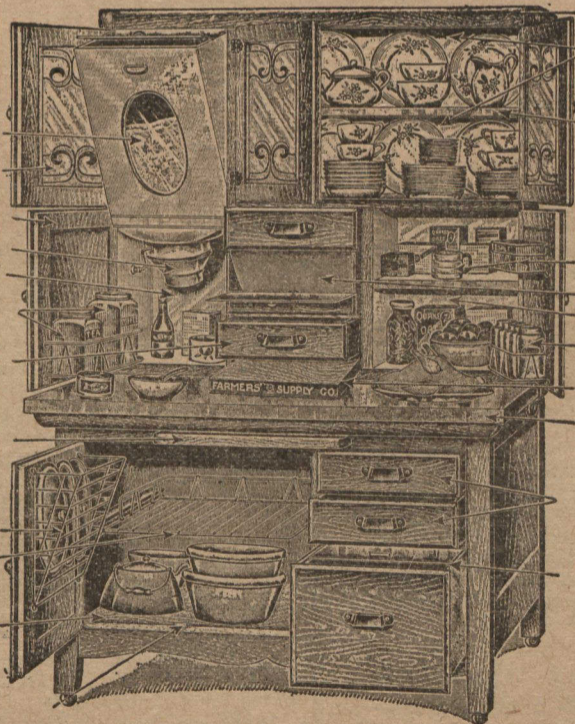
No. 410

ON TRIAL 14⁷⁵

Price at Winnipeg 14.75

45.00 EXCELLO KITCHEN CABINET 45.00

at Winnipeg Sliding Top, White Enamel Lined At Winnipeg



Made of Solid Oak. Finished a dull golden. Top has large automatic flour bin, holds 50 lbs. of flour; large china cupboard (full white enamel lined); large sugar bin, heavy chopping board and cutting drawer; entire top enamel lined. Base has sliding nickel top below which is a pastry board, large cupboard with sliding wire rack. To the right is a large sanitary bread and cake box, cutlery drawer and linen drawer. It would be impossible to make a cabinet more complete and practical. Cabinet stands 75 inches high, is 42 inches wide and 26 inches deep, and sliding top gives a working surface of 42 x 38 inches when open. 30 days' free trial.

Free Just 50 9-piece Kitchen Sets to the first 50 orders we receive from this advertisement for one of these Kitchen Cabinets. Sells regularly at \$3.75.
DELIVERED PRICES 46.25 48.25 49.40
Any Town in Man. Manitoba Saskatchewan Alberta

JUNIOR Worldlight

Burns Coal Oil or Gasoline
335 Candle Power
Burns 8 hours for one cent only.
Consumes 3% oil 97% air.

Lamp is made of brass, beautifully nickeled, has fancy standard and chipendale shade 12 inch diameter, lamp stands 19 inches high. Fancy what an addition this beautiful lamp will be to your home, no more dull rooms, and at hardly any cost, as you can burn this lamp for 80 hours for 10 cents. Order one to-day and test it for 30 days. We will refund your money if you are not entirely satisfied.
No. 794—Price at Winnipeg 9.75



9.75

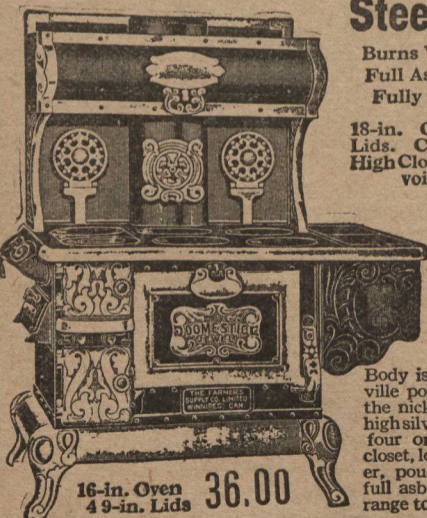
Renowned Improved Domestic Jewel Blue Steel Range

Burns Wood or Coal
Full Asbestos Lined
Fully Guaranteed

18-in. Oven, six 9-in. Lids. Complete with High Closet and Reservoir. Price

F.O.B. Winnipeg 39⁰⁰

Extra large oven, bakes to perfection. Body is made of Wells-ville polished steel and the nickeled parts are high silver nickel. Has four or six lids, high closet, long front damper, pouch feed and is full asbestos lined. A range to last a lifetime.



16-in. Oven 49-in. Lids 36.00

ROYAL DOMESTIC RANGE

AS SHOWN 20-in. OVEN

F.O.B. Winnipeg 78²⁵

Full tile high closet. Beautifully nickeled. Extra large oven. Burns wood or coal. Heavy steel body. Asbestos lined. Large copper reservoir.

You will find this range all and more than we state. It is built to last a lifetime; will bake perfectly; is economical in consumption of fuel and is worth fully

\$25 more than what we ask. When you order the Royal Domestic you get the best 20-in. oven. Six 9-in. lids. Complete with high closet and reservoir 78.25



Full Nickel Base

Seed Grain

Purchasing Commission

This Commission, appointed, on the recommendation of the Honorable the Minister of Agriculture, by the Federal Government of Canada, has for its aim the procuring of a supply of clean, sound seed grain to meet the requirements of Municipalities, Farmers' Organizations and Farmers in districts affected by draught, frost and other causes.

All seed grain purchased and distributed by the Commission is handled at the Government Interior Terminal Elevators at Moose Jaw, Calgary and Saskatoon. It is all inspected by the Seed Inspection Staff of the Dominion Department of Agriculture on arrival at these Elevators and must conform to the following Standards after recleaning:

WHEAT

CLASS No. 1 MARQUIS SEED WHEAT

No. 1 Hard and No. 1 Northern Seed Wheat shall be composed of practically pure Marquis Wheat, sound, clean and free from other grains, and free from noxious weed seeds under the meaning of the Seed Control Act and weigh not less than 60 pounds to the bushel.

OATS

CLASS No. 1 SEED OATS.

No. 1 Seed Oats shall be composed of grades No. 1 and 2 C.W. Oats, shall contain 95 per cent. of white oats, sound, of strong vitality, clean and free from other grains, free from noxious weed seeds within the meaning of the Seed Control Act and weigh not less than 34 pounds to the bushel.

BARLEY

CLASS No. 1 SEED BARLEY.

Canada Western Seed Barley shall be composed of the six-rowed variety, sound, plump, clean and free from other grains, of good color and free from noxious weed seeds within the meaning of the Seed Control Act and weigh not less than 45 pounds to the bushel. ("Within the meaning of the Seed Control Act" means not more than one noxious weed seed per pound of grain).

The Government Seed Inspectors have been instructed to select and specially bin such cars of grain as can be cleaned, at reasonable cost, up to the above mentioned Standards.

The Commission will purchase No. 1 and 2 C.W. Oats, 3 C.W. Barley and No. 1 Hard and 1 Northern Marquis Wheat, subject to official grading and weighing, accepted as suitable for seed by the Seed Inspectors and stored in the Interior Terminal Elevators at Moose Jaw, Saskatoon and Calgary, and pay therefor a premium of 5 cents in advance of the closing cash price on the Winnipeg Grain Exchange on day of purchase; all purchases to be made on basis Ft. William. When requirements are nearly filled, the Commission will notify farmers and grain dealers, through the Agricultural Press, that no more grain will be purchased after a date specified in such notification, which will be given at least two weeks in advance.

The Commission invites the co-operation of farmers and grain dealers in carrying out its objects, so that there will be no possible danger of any shortage of seed grain for next Spring's seeding and the expectations of the Allies for a plentiful supply of food-stuffs from Canada will be fulfilled. In purchasing and inspecting seed grain the services of the Commission and the Staff of the Dominion Seed Branch will be available free of charge and the grain will be sold to farmers at actual cost plus cleaning and other necessary charges.

All correspondence should be addressed to A. E. Wilson, Commissioner and Chief Agent, Post Office Building, Regina, Saskatchewan.

Canadian Government Seed Grain Purchasing Commission

A. E. WILSON

COMMISSIONER AND CHIEF AGENT.

In making entry the name, address, and date of birth of the competitor must be furnished.

The date of birth of the animal entered, name of sire, and breed, must be given.

Parents, guardians, or employers must certify that the boy or girl is over nine and under seventeen years of age at the time of the Edmonton Spring Show of 1918, and that they have taken care of and fed the animal from the 1st of January, 1918, and must also certify to the age of the animal which is exhibited.

The competitors are advised to select steer calves wherever possible, and to reserve the heifer calves for breeding purposes. After this year, it may be necessary to limit the competition to steer calves.

The total prizes offered will amount to about \$1,000, and in addition to the cash prizes a number of special prizes will be offered. Miss E. C. Hind, of Winnipeg, has already signified her intention of adding a \$25 gold wrist watch to the prize money won by the girl standing highest in this competition. A number of other specials are being arranged for, and the complete list of prizes will appear at a later date.

GREASE TROUBLE

A number of our readers who are in the horse-breeding business have been troubled at times with grease trouble. Our investigation goes to show that this complaint is usually

As a preventive common vinegar if used to thoroughly cleanse the skin and hair is of great value, not only may it be used as a preventive when washing is necessary, but its use with proper feeding and exercise have even been known to effect a cure where the trouble was taken in hand at an early date.

If the trouble is of long standing however, a disinfectant should be applied such as lysol, creoline or bichloride of mercury. This may be followed every second day by an application of ointment made up of lard and 20 per cent. oleate of mercury. A scurf may collect and form into scabs but this will soon be cleaned out by rubbing in the ointment regularly.

ANOTHER LOT OF HIGH CLASS HEREFORDS FOR THE PROVINCE

George E. Fuller of Girvin, Sask., the owner of one of the largest Hereford herds on the continent is establishing a ranch near Calgary and is placing thereon a large part of his Hereford herd including the noted bull "Martin Fairfax."

This news will be of considerable interest to cattle breeders as the advent of this herd places Alberta in the front rank for Hereford cattle and bulls.

The province is already the home of five of the highest priced bulls on



"Dot" and "Ruth". Two coming champions, both the property of Geo. Rupp, Lampman, Sask.

due to improper feed, lack of exercise and gross neglect or more often still a combination of these causes.

If the horses are getting heavy, strong feed, they should get frequent exercise and care should be taken to see that they are not allowed to stand in moist, dirty quarters. The feet and legs should be given frequent and thorough brushing and if it is found necessary to wash the feet they should at once be dried perfectly by rubbing with any good moisture absorbing substance such as bran or sawdust.

In buying a new horse a purchaser should always be on his guard against animals which are already affected or show a tendency to have poor legs. Clydesdales or Shires with an excessive growth of long mopy hair or Percherons and Belgians with extra large, round, neat legs are very apt to go wrong unless they receive specially good care.

Practically all breeds of horses are subject to this trouble and as bad cases have been found with the Percherons and Belgians as with Clydesdales or Shires.

Feeds and feeding methods are quite important in trying to avoid this trouble. A good line of feed consists of oats, bran, roots and hay, clean timothy and clover mixed also a little alfalfa daily. Getting feed of this kind and plenty of exercise will put and keep horses in good form and condition and if their stabling is what it should be very little trouble from grease will be experienced.

the continent including "Gay Lad 16th" owned by S. C. Moore, Claresholm and costing \$20,000, "Beau Perfection 48th" owned by Curtice Cattle Company and also valued at \$20,000 and "Gay Lad 40th" owned by Frank Collicutt and valued at \$11,900.

It would thus appear that the province bids fair to lead the continent before long in Hereford cattle.

LANGDON FARMER INJURED

While driving cattle on horseback, Mr. James Johnston, a partner of the firm of Johnston Bros. farmers and ranchers of Langdon, was the victim of a painful accident on Wed. Nov. 14, 1917.

His horse fell throwing him off and in the mix up his foot was caught in the stirrup. He was dragged for some distance and the accident resulted in two fractures in his leg.

THORBURN & RIDDLE AND OTHERS SELL CLYDESDALES

On the night of December 13th, Messrs. Thorburn and Riddle, De Winton; A. L. Dollar, High River; W. S. McKinnon, Olds, and John Jamieson, of Halkirk, will sell a number of outstanding aged stallions, as well as some two- and three-year-olds. There will also be offered a choice selection of females from Thorburn & Riddle's ranch, many of them in foal to his famous stallion "Scotland's Splen-

dour," which was a champion at the principal Alberta fairs last year.

A. L. Dollar will have a good bunch of Canadian-breds to offer, a useful lot of horses, the buyer of any of which can be sure that he has got a good horse. He will also offer a number of young imported horses.

RECENT INVENTIONS OF INTEREST TO AGRICULTURE

C. J. LYNDE,
Macdonald College, Quebec, Canada.

Spray Betrays Submarine.—This invention deals with a subject which interests us all at this time. The floats are so attached that they throw up a spray when the net is moved and betray the submarine to the patrol boats. The boats then destroy the submarine by depth bombs. (See cut 751). (William A. Stewart, East Orange, New Jersey. U. S. Patent 1,242,386.)

Simple Animal Poke.—This poke is made from three lengths of stout wire bent as shown. Make a model out of light wire to get the proper lengths and then make one for use out of stout wire. (See cut 752). (Edgar G. Goff, Chattanooga, Oklahoma. U. S. Patent 1,241,842.)

The Lamp Prevents Freezing.—The metal box of this heater opens and closes at the bottom and is made water tight by means of a gasket and thumb screws. It has pipes for the inlet and outlet of air, also one for oil, and one for the wick regulator. The oil pipe has a float indicator to show when the lamp is full. (See cut 753). (N. D. Riemenschneider, State Center, Iowa. U. S. Patent 1,241,555.)

Hand Protector for Steering Wheel.—The pad here is made preferably of tanned sheep skin with the wool side out. It is sewed to a thin sheet metal frame, which prevents it from sliding, and it is attached to the rim by straps. (See cut 754). (Elmer Clarence Burrows, Basin, Wyo. U. S. Patent 1,235,549.)

Supports the Strainer in Two Positions.—The object of this invention is to provide a support which will hold the strainer above the top of the separator bowl when the bowl is to be entirely filled or below the top when this is not the case. (See cut 755). (John Trond Svaren, Fayette, N. D. U. S. Patent 1,241,573.)

Storm Door With Canvas Sides and Roof.—The new feature of this storm door is that it has sides and roof of canvas or other cloth. The advantages claimed are that it is easily taken down and put up and that it is cheap. (See cut 756). (Burton Herbert Gedge, Anderson, Indiana. U. S. Patent 1,230,148.)

You may never use one of these ideas in exactly the way described here each issue, but you will certainly use many of them in your own way, to make farm work easier. Advise your friends to read this column each week in Farm and Ranch Review.

A SATISFIED READER

Elbow, Sask.
Nov. 18th, 1917.

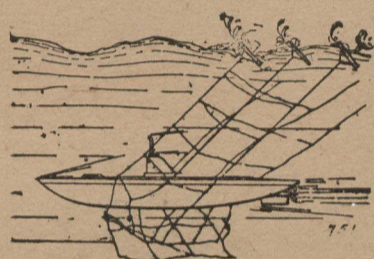
Farm and Ranch Review
Calgary.

Dear Sirs:

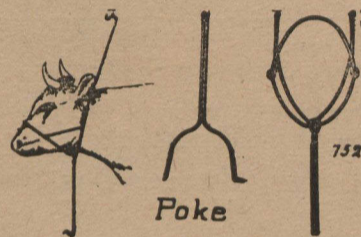
Inclosed find \$2.00 for which extend my subscription as far as it goes. I sure like the "Review" and we all look forward to its coming, wish it would come weekly as it's sure a good live farm publication. Wishing you good success in the coming year. I must remain, yours truly, (Sgd.) Norman Ganes.

Sow grasses for pastures that ripen at different periods.

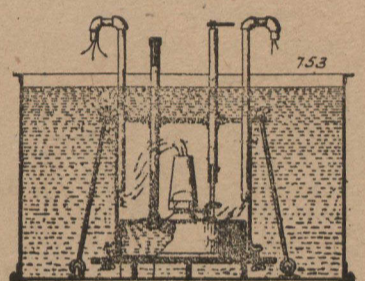
Brother farmers, here is a habit worth forming, that of throwing off before going to bed at night all cares and anxieties of the day—everything that can possibly cause added wear and tear or deprive you of rest.



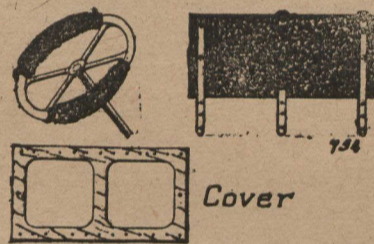
Sub Detector



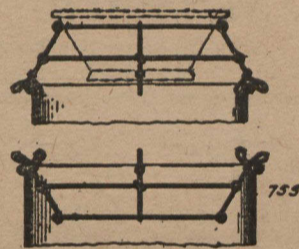
Poke



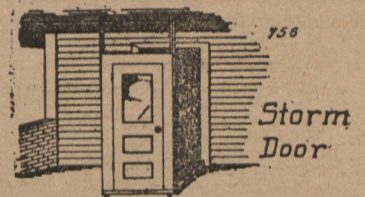
Tank Heater



Cover

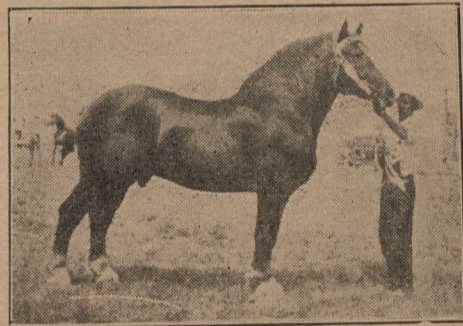


Strainer



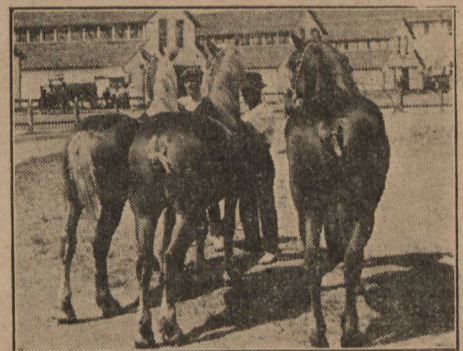
Storm Door

THE ARLINGTON STOCK FARM



Orange de Hofstade, champion Belgian stallion at the Regina Exhibition, 1915, and sire of many of the good things at Arlington Farm.

THE HOME OF THE BELGIANS



Arlington, Belle Isle and Lillian Lovaine, winning group for get of sire. All sired by Orange de Hofstade.

EVERY HORSEMAN AND FARMER KNOWS that the importation of Belgians from their native soil has stopped and it may be years before Belgium sends us another stallion or mare. But this noble horse must not be allowed to decrease and eventually die out. It is up to the Canadian horseman to make good in the breeding and raising of this great and docile drafter. At Arlington Stock Farm we have already acquired a reputation for breeding and raising Belgian horses with all the qualifications and characteristics which go to make the ideal horse.

OUR BELGIAN STALLIONS AND MARES have quality, underpinning, size and weight. The Belgian cross on grade mares gets you the saleable kind of gelding.

We have a number of good stallions for sale, all ages. Prices to suit you.

WE WOULD LIKE TO HEAR FROM YOU.

The farm is reached from Govan, or Cymric on the Pheasant Hill Branch, C.P.R.

A. A. DOWNEY

ARLINGTON BEACH

SASK.



"HAPPY FARMER TRACTOR" handling 3-bottom 14-in. Plows, back-setting Timothy Sod at a depth of 8 inches on the farm of Sir Rodmond Roblin, Carman.

HAPPY FARMER TRACTOR

MODEL B—12-24 h.p. has the only twin cylinder motor built that is completely water-jacketed—that means uniform coolness — perfect compression — absolutely no loss of power, and it

BURNS CHEAP COAL OIL

This perfect kerosene burner makes friends with the hired man or boy from the start—it's so simple to operate—so easy to care for and so capable of continuous service. Its all steel construction and hyatt bearings proved themselves as good points at the

BRANDON DEMONSTRATION

where it hummed along without vibration, without the need of even a wrench, plowing an acre clean and clear in 45 minutes with a petty 31c worth of coal oil—Ask us for the whole story.

BUY NOW!

WE TEACH YOU FREE!

Easy terms — half down — half next fall—or 5 per cent. discount for all cash. Three days' expert service of a factory man free. Let the "Happy Farmer" make you more profit in 1918. Write tonight.

LIVE AGENTS WANTED

Some good districts are still open for live dealers.

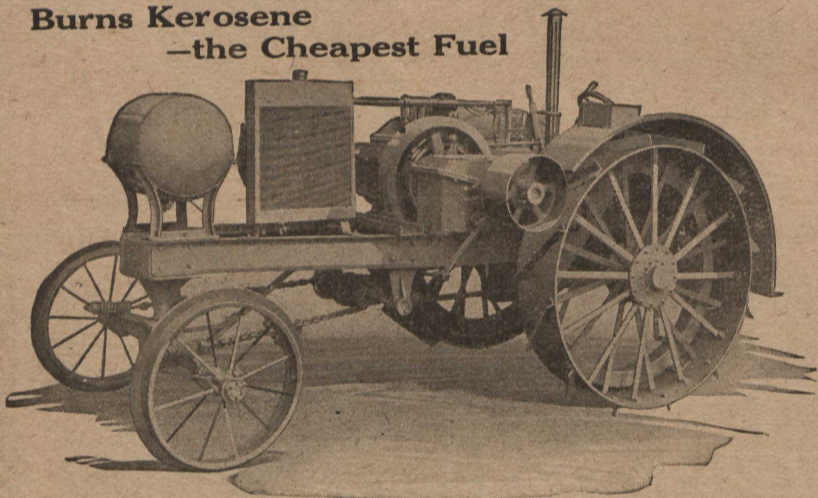
WIRE YOUR RESERVATION

J. D. ADSHEAD COMPANY, LIMITED

WINNIPEG

MAN.

Burns Kerosene —the Cheapest Fuel



"THE WATERLOO BOY HAS THEM ALL BEAT"

"I have owned five different tractors from 12-24 to 40-80 and I figure the Waterloo Boy has them all beat," writes E. J. Terril of Regina. "I have had dealings with several machine companies but you have given me the best service of any. The engine I bought of you fourteen months ago has certainly done more than I ever expected of it. I figure it the cheapest way to do general farm work. It certainly gets along on KEROSENE fine and that is what we need, for gas is too high for farm work."

WATERLOO BOY ONE-MAN KEROSENE TRACTOR

Developing 12 H.P. at its drawbar and 24 H.P. at its pulley, the Waterloo Boy has ample capacity for every power requirement of the farm.

Waterloo Boy Tractors are in actual use the country over. They are increasing farm production and lowering the cost. They are offsetting the existing lack of labor. They are returning their owners profits.

You need a Waterloo Boy—and you need it NOW. Let us send you full particulars.

Waterloo Boy Kerosene Tractor of Canada, Limited
WINNIPEG

H. P. Norton Company - - Alberta Representatives
SHARP ADVANCE IN PRICES SOON

About the Farm

THE MECHANICAL FARMER

The Tractor on the farm arose
Before the dawn at four;
It drove up cows and washed the clothes
And finished every chore.

Then forth it went into the field,
Just at the break of day;
It reaped and threshed the golden yield
And hauled it all away.

It plowed the field that afternoon
And when the job was through,
It hummed a pleasant little tune
And churned the butter, too.

And pumped the water for the stock,
And ground a crib of corn,
And hauled the baby 'round the block
To still its cries forlorn.

Thus ran the busy hours away,
By many a labor blest;
And yet, when fell the twilight gray
The Tractor had no rest.

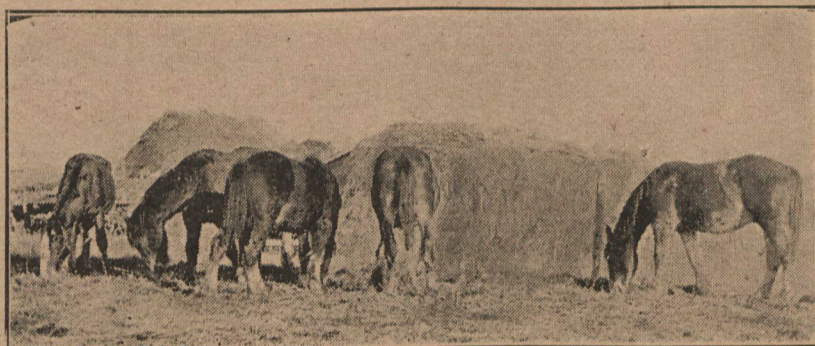
For while the farmer, peaceful-eyed,
Read by the Tungsten's glow
The patient Tractor stood outside
And ran the dynamo.

—James Barn Magazine.

exemption, but my brother has been ordered to present himself for medical examination on November 19 at Calgary.*

There are also some complaints that while the members of the tribunal realize the importance of leaving the skilled farmers on the land, the military adviser does not realize this importance, but proceeds on the theory that all able-bodied men should do military service, and, in accordance with this idea, is appealing against the exemptions allowed to such men.

I understand that other tribunals are taking a sentimental stand, that each farmer having more than one or two sons should contribute one or more of them to military service, regardless of what effect it would have on production, and that there are still others who take the stand that a prosperous farmer's sons should be conscripted, because his prosperity will enable him to hire help to take their places. These ideas may be perfectly sound from a sentimental standpoint, but will be disastrous from a practical standpoint, as it is almost impossible now to hire skilled farm labor, and will be more so after



Yearling Stallions, great prospects for stud horses, combining size and quality, to be sold at P. M. Bredt & Co.'s big combination sale, Dec. 11th and 13th, at Calgary.

COMPLAINTS RE TRIBUNAL ACTIONS

Several complaints having reached the executive of the U.F.A. regarding the action of some of the rural tribunals in refusing exemption to skilled farmers, Pres. H. W. Wood sent the following letter to Premier Borden:

Calgary, Nov. 19, 1917.

Rt. Hon. Sir R. L. Borden, Premier of Canada, Ottawa:

Dear Sir Robert—There are some complaints coming in from districts covered by some of our local exemption tribunals that too many skilled farmers are being refused exemption. This complaint is not general but I think it will apply to perhaps 20 or 25 per cent. of the local tribunals, and I am afraid that the most of these complaints are well founded. If the production of food products in western Canada is as vital to the Allied cause as we are led to believe, I am very much afraid that the action of these tribunals will develop a serious situation by materially decreasing agricultural productions in the future.

I can perhaps give you a better idea of conditions existing in some places by quoting from some private letters regarding the same:

"There is widespread dissatisfaction among the farmers here on account of the wholesale manner in which the local military tribunal is depleting the farms of their trained help." . . . "In almost all cases they are leaving only one man to 320 acres." . . . "I wish to cite the case of my brother, C. V. Bennett, of Gleichen, who owns a quarter section, and we have 360 acres rented besides my own quarter section, and he has horses and machinery. We are farming 650 acres of land, all of which is under cultivation, and we have 500 acres to put into crop next year. We also own a tractor plowing and thresher outfit. I have been granted

the labor supply has been further depleted by the present military draft. One skilled farmer is at least twice as efficient in production as two unskilled men.

Most of our local tribunals seem to realize the importance of keeping up the agricultural production, and are dealing with the matter accordingly. I fear, however, that the exceptions I speak of may do very great injury, not only in making it impossible to keep up the normal production, but also in influencing other farmers to believe that increased production is not so necessary as they have been led to believe.

I believe that the situation unless dealt with immediately will become a very serious one, and would suggest that you would take some action in the matter whereby the action of these irresponsible military advisers of certain tribunals will be reviewed by some superior responsible party or parties capable of settling the matter on a proper basis at once. As it is, I am certain there are mistakes being made that will have to be corrected sooner or later, and that the sooner they are corrected the better it will be for all concerned. If they are allowed to go away from the farms, it will be the means of creating great dissatisfaction and lack of confidence among the farmers. Besides, many of these men will probably have to be returned to the farms after they have taken unnecessary military training.

I feel as though I should apologize to you for writing you this letter, and I would not have done so had I not deemed the situation a very serious one and the absolute necessity of letting you know something about the developments.

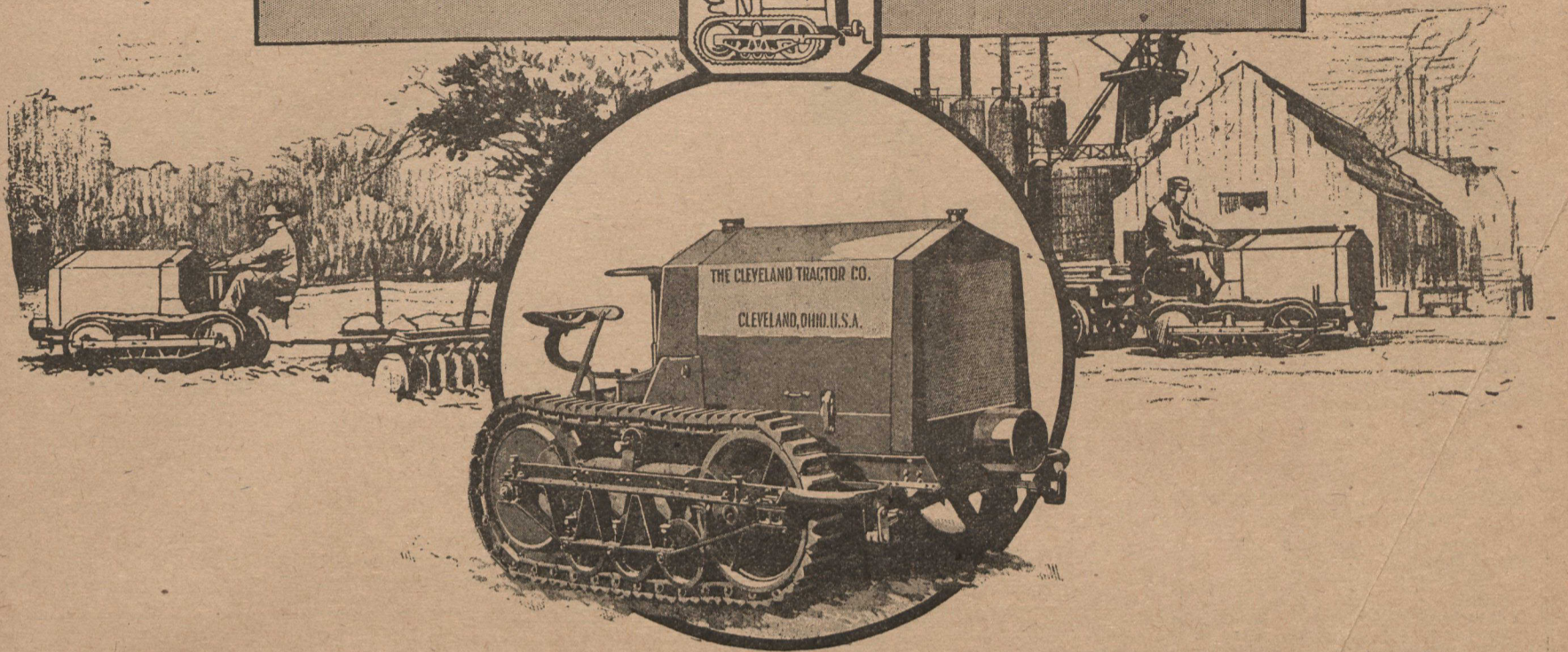
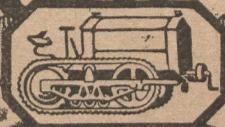
Hoping that you may find time to look into the matter, and wishing you well, I am,

Yours most sincerely,

(Sgd.)

H. W. Wood,
President.

Cleveland Tractor



Saves Labor --- Boosts Production On the Farm

FARMERS—There is just one way to solve the labor problem and boost production in 1918. Forget the old routine. Adopt improved methods. Cut down on labor requirements.

The Cleveland Tractor will help you as it is helping wide-awake farmers in all sections of the country. It will do your work better—faster—and at much less cost than you can possibly do it with horses and men.

The Cleveland enables you to plow and cultivate when and where you need it. It crawls on its own tracks and you can go over almost any soil and at any time. Think of the extra yield that means.

The Cleveland will not pack your seed bed. It weighs only 2,750 pounds and has 600 square inches of traction surface.

It is small enough for use in orchards, yet it gives 12 h.p. at the drawbar for hauling—and 20 h.p. at the pulley belt.

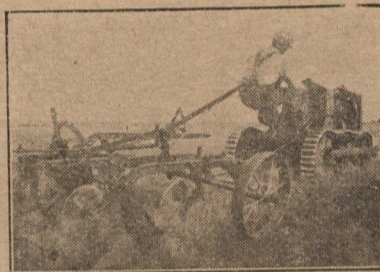
Rollin H. White builds the Cleveland Tractor with the scrupulous care that made him famous as a motor truck builder. He uses only the finest motor truck parts and gears. He protects all gears with dirtproof, dustproof cases.

The Cleveland Tractor steers by the power of its engine. Anyone can drive it. And it will turn in a 12-foot circle.

The Cleveland Tractor will operate saws, grain grinders, separators, silo fillers and other farm equipment.

The Cleveland Tractor will haul binders, mowers, seeders, discers and loaded wagons at speeds up to 4½ miles per hour.

If you are interested in better work for less money write today for information on what the Cleveland Tractor is doing in different districts under different conditions. You can get on your land seven to ten days earlier with the Cleveland than with any other tractor. Cleveland Tractor dealers in Alberta are wiring additional orders, begging for rush shipments. The demand is absolutely unprecedented. No mechanical implement introduced in recent years has won such widespread popularity. Every farm owner needs the Cleveland. See the CLEVELAND TRACTOR at the ALBERTA WINTER FAIR, Calgary, Alberta, December 11th 12th 13th and 14th.



The Cleveland Tractor at Ogden, Alberta, breaking virgin prairie with two 14-inch plows, September, 1917.



The Cleveland Tractor operating separator at Delburne, Alberta, October, 1917.



The Cleveland Tractor operating wood-saw at Delburne, Alberta, November, 1917.

A WONDERFUL DEMONSTRATION

At Chinook, Alberta, on November, 21st, 22nd, and 23rd, the Cleveland Tractor pulled three 14-inch plows in rolly hilly land that was summer-fallowed in 1915 and since then had two crops disced in. The Cleveland Tractor plowed one and one-quarter acres on one gallon and one pint of kerosene, proving itself to be the most economical tractor on fuel consumption.

The Cleveland Tractor plowed at the rate of two acres in one hour at Chinook with three 14-inch bottoms. This is a most remarkable record.

East of Ogden in September the Cleveland Tractor broke virgin prairie with two 14-inch plows at a depth of 6 inches. This was in gumbo soil that was dry and exceedingly tough.

The Cleveland Tractor will solve your difficulties and reduce your labor costs. You can work it twenty four hours a day every day.

Prepare now for bigger, better crops next year. Decide to make the Cleveland earn money for you as it is doing for hundreds of others.

We give you two days EXPERT SERVICE with every tractor. Our experts instruct you how to operate and care for your tractor.

FOUNDRY PRODUCTS LIMITED

“THE SUPPLY HOUSE OF QUALITY PRODUCTS”

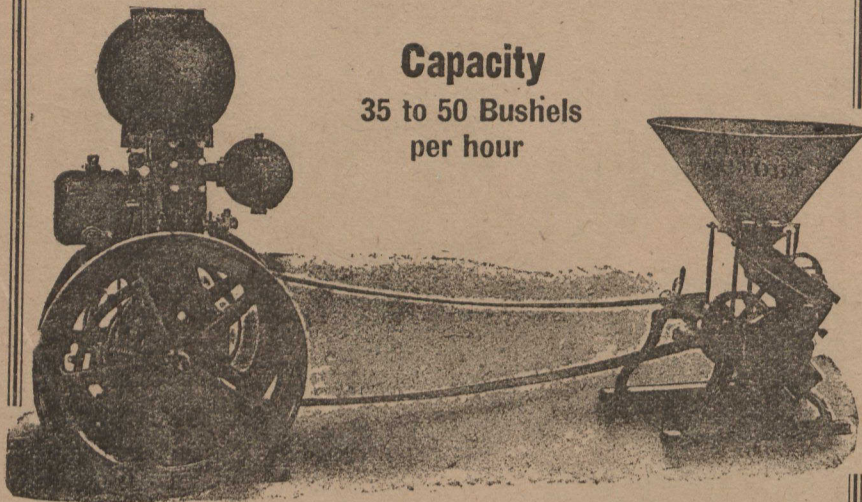
DISTRIBUTORS FOR ALBERTA

CALGARY, ALBERTA

REPAIRS NOW CARRIED IN STOCK AT CALGARY.

REPAIRS WILL BE CARRIED BY LOCAL CLEVELAND TRACTOR DEALERS

7 H.P. MANITOBA CRUSHING OUTFIT



Capacity
35 to 50 Bushels
per hour

OUTFIT COMPLETE AS ILLUSTRATED

7 h.p. Manitoba Engine, 30 ft. 5 in., 4 ply rubber belt, 8 in. Manitoba reversible, conical plate, ball bearing, screen shake feeder crusher. Price **\$215.00** f.o.b. Calgary. Extra set of plates furnished.

If 10-inch is preferred in place of 8-inch, add \$10.00 to price.

Same engine equipped with 3-roller 12-inch crusher. Price **\$260.00** f.o.b. Calgary.

This outfit will crush more feed for the investment and the cost of operating same than any outfit you can buy. Simple, reliable and durable. Takes up very little space as compared with horizontal outfits of the same horsepower and can be operated in the coldest weather as well as in the Summer time. It requires no batteries.

GUARANTEE—30 days trial. If outfit is not as represented and proves unsatisfactory at the expiration of this time, same may be returned in same condition as received, outside of natural wear, and your money with all freights will be refunded.

Terms:—Cash with order or sight draft against bill of lading.

SAW MANDRELS

With balanced wheels, 1½-in. shaft, 6x6 pulley and babbitted boxings, for 1½-in. saw. Price **\$15.75**

Same shaft without balance wheels but otherwise complete. Price **\$11.50**

WIND MILLS—8, 10, 13 and 14 FEET. PRICES ON APPLICATION.

HERO FANNING MILLS, SIZES 1, 2, AND 3.

All Complete with Baggers and Power Attachments.

Price No. 1, mills only **\$32.25**

With bagger, \$10.75 extra.

No. 2, mills only **\$36.25**

With bagger, \$11.40 extra.

No. 2, 8-ft. bagger, \$13.25 extra.

No. 2, 10-ft. bagger, \$24.75 extra.

No. 3, mills only **\$58.35**

Cash With Order.

FARM IMPLEMENTS AND REPAIRS OF ALL KINDS.

H. S. PALMER

PHONE MAIN 6465 :: 622 9TH AVE. WEST, CALGARY, ALBERTA

REGISTERED YORKSHIRE HOGS

Great future for the bacon hog in the British market. Dominion Government advises raising the bacon type for all Canada. Yorkshire is pre-eminently leader of this type. National experimental farms prove this.

Pigs from ten weeks up now ready for shipment. Write for prices and Booklet "The Bacon Hog and the British Market."

RIVERSIDE FARM, LTD.

WETASKIWIN

ALBERTA

LAKEVIEW STOCK FARM AYRSHIRES, CLYDES, BERKSHIRES, POULTRY

PRICES RIGHT

ROWLAND NESS

STOCK FOR SALE AT ALL TIMES
DE WINTON - ALBERTA

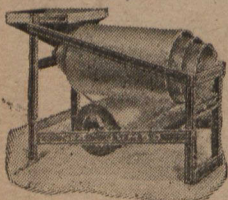
GALLOWAY CATTLE

For sale, pure-bred females in calf and calf at foot, but no bulls until after October 1st. This is a choicely-bred and first-class acclimated stock. Reasonable prices.

T. H. TINNEY

MEDICINE HAT

ALBERTA



THE NEW JUMBO CLEANER AND GRADER—A Moderate Priced Machine. Guaranteed to absolutely clean and grade all kinds of Grain. A combination Cleaner, Grader, Pea and Cockle Mill in one. Cleans Oats from Wheat, Succotash, Barley, Rye, Flax, Grass Seeds, Etc. Imperial Smut Machine. Direct to you from factory, at a saving. Write today. Full information free.

MINNEAPOLIS SEPARATOR CO. - 312 Erie St. - MINNEAPOLIS, MINN.

DUROC - JERSEY

PIONEER DUROC-JERSEY ESTABLISHMENT OF WESTERN CANADA.

For sale, a number of Spring Pigs, either sex, of excellent breeding, at reasonable prices. It will pay you to write me before purchasing.

JOHN MAURER

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::

CLIVE, ALBERTA.

NO EMBARGO ON WOOL

A representative of the Farm and Ranch Review interviewed Mr. T. Reg. Arkell, chief of the Sheep and Goat Section of the Live Stock Branch, Dominion Department of Agriculture when he was in Calgary on Nov. 19th, regarding the reports which had been circulating in some daily papers to the effect that the government purposed placing an embargo on wool. Mr. Arkell states that the government has no intention of placing an embargo on wool shipments to the United States, and that the woolen manufacturers are not asking for such action. Mr. Arkell said further that there has been a general misunderstanding in the west regarding the attitude of the manufacturers and also the wool commission appointed by the Dominion government, and composed almost entirely of representatives of the textile industry.

A Misunderstanding

This misunderstanding dates back several years, and apparently has been the fault of both growers and manufacturers. Within the past two weeks reports began filtering through from Ottawa that the manufacturers were maneuvering for an embargo on raw wool. Naturally the growers thought it was a trick to have their

for it is next to impossible to secure the machinery at this time. Plans are being made, however, along these lines, and the despatch with which they will be carried out will depend largely upon the war and shipping conditions. However when the mills are so equipped they will be in a position to handle practically all grades of wool grown in Canada, and will furthermore be able to pay ruling market prices, as the freight charges to combing points, and on tops returned from these points will be eliminated.

Looking to Future

Mr. Arkell is desirous of bringing about better relations between the manufacturers and the growers, and in doing this he is actuated merely by a desire to see Canadian wool made into woolen and worsted goods in Canada, so that in the future Canadian growers will not have to depend on foreign markets when circumstances may not be as favorable as they are at present. The Wilson administration removed the tariff on wool, but Wilson will not always be in the White House, and the time may come when Republicans again hold sway. When the time arrives it is almost certain that a tariff wall will be erected against our product, and we will be forced to seek a world market. If growers will help in es-



The Coming Farmer in the Peace River District.

market restricted, and a means of obtaining their product at a lower price, so that they consequently became alarmed. These reports all lacked authority, the government having no such intention. What the manufacturers want, and have requested, is that the government take some steps toward conserving the carding lengths of wool for Canadian use, so long as Canadian mills are prepared to bid on these grades in accordance with market values.

At the present time domestic manufacturers cannot utilize the longer or combing lengths until they are converted into "tops", or until after they are combed, because they haven't the machinery necessary for such combing. Practically the only raw wool they do use consists of the clothing or carding lengths, out of which woolen goods are manufactured. The combing lengths are exported, combed and returned in the form of tops, so that all their worsted goods must absorb this extra cost in freight, and shipping both ways. The Canadian manufacturers therefore desired that they should have first access to the carding lengths, for if these grades were also shipped out of the country, and then imported it would merely add to the cost of producing woollens, and benefit no one. Growers are assured of a good market for their shorter wools at home and mills are now taking steps to install combing machinery, so that they will be in a position to utilize the longer staples without relying on outside top markets.

Just when Canadian mills will be able to equip their plants with combing machinery is enigmatical,

establishing and maintaining a Canadian textile industry that will use all grades of wool produced by them their future market will be assured.

BRITISH CANADIAN RECRUITING IN UNITED STATES

Colonel J. S. Dennis, who was recently given a step in rank as a full colonel in command of the Western Division of the British Canadian Recruiting Mission in the United States, has again been promoted to the position of second in command of the Mission.

Through the medium of the Mission some 14,000 recruits have been obtained, and it is expected that by the end of the year an additional 5,000 will be recruited.

Lieut.-Colonel F. C. Jamieson, who has been in command of the Chicago Depot under Colonel Dennis, has been promoted to command the Eastern Division of the Mission with headquarters in New York.

INCREASED MILITARY PENSIONS

Substantial increases in allowances to disabled soldiers and their dependents and a considerable extension of those provided for as dependents have now been effected by order-in-council at Ottawa. The increases, which will be operative from April 1, 1917, apply to soldiers and sailors of the lower ranks, up to and including lieutenant in the Canadian expeditionary forces and sub-lieutenant in the Canadian navy. The total increases will amount to about 40 per cent., raising the present annual expenditure of about \$5,000,000 to over \$7,000,000. The actual

Enjoy the Delights of Skiing This Winter



4018

The healthiest of all winter sports—skiing. Popular fancy has it that hills are necessary for shing. This impression is due, no doubt, to the fact that skiing is the national winter sport of Switzerland, a mountainous country. This impression is misleading. Hills are no more necessary for skiing than they are for ice skating. Skiing is snow skating, and under favorable conditions almost as fast time can be made on skis as on ice skates. You will enjoy the sport and with a little practice will be able to make good time.

Pine Skis, serviceable for all ordinary uses:

5 foot length, suitable for boys and girls **\$2.75**

6 foot length suitable for ladies. **\$3.50**

7 foot length, suitable for ladies and men of medium weight. **\$4.15**

7 foot 6 inch length, suitable for heavyweight men. **\$4.50**

Maple Skis, give very smooth gliding surface and are very durable. Sizes are suited to those given for Pine Skis.

6 foot length. **\$6.45**

6 foot 6 inch length. **\$7.15**

7 foot length. **\$7.85**

R. H. WILLIAMS & SONS Limited
REGINA SASK.

HORSES

UNION Stock Yards of Toronto Limited, Capital one million five hundred thousand dollars. "Canada's greatest live stock market" covers over two hundred acres. Railroad sidings for all lines. Horse Department conducts Auction Sales every Wednesday. Private Sales every day. All stalls on ground floor. Four to ten carloads of Horses received and sold each week. Consignments solicited. Those requiring sound young draft mares and geldings, blocky general purpose farm horses and delivery horses will find a large stock to choose from. Special sales arranged, correspondence solicited.

Walter Harland Smith, Manager Horse Dept.
Union Stock Yards of Toronto Limited
Keefe Street West Toronto

STEELE, BRIGGS SEED CATALOGUE

READY JANUARY, 1918

Send Your Name.

We are buyers of Timothy, Brome, Western Rye, Seed Oats, and Seed Barley.

Send Samples.

STEELE, BRIGGS SEED CO., Limited,
WINNIPEG :: CANADA

LUMP JAW

For twenty years the only sure cure has been Fleming's Lump Jaw Cure. Use it no matter how old the case. It must cure or we will refund the full price paid. Fleming's Vest Pocket Veterinary Adviser is free.

FLEMING BROS., CHEMISTS
81 CHURCH ST., TORONTO, ONT.



increase of a widow will be from \$32 per month to \$40 and of children whose father has been killed from \$6 to \$8—a 33 1/3 per cent. raise.

An important regulation provides for twenty grades of disability with differences of 5 per cent., in place of only six grades with differences of 20 per cent. Additional allowance will now be made for the disabled man who is married, and special increases affect dependent parents and younger brothers and sisters.

MACHINE SHED AND PATRIOTISM

With the high price of farm machinery and the increasing difficulty of making enough iron to meet the needs of the war, implement manufacturers, railroads and other industries, the farmer can do a great deal to help by housing his farm machinery. If it can not be put under cover, at least cover all the bearings with oil so that they cannot rust or corrode. Adding a few years to the life of each farm machine is one way to help win the war, and this is one way of doing a bit that will cause no hardship to any one.

FARMERS' AUTO TRUCKS

The cost of marketing crops and livestock has always been a heavy tax on farm products. The consumer does not know it, but it is a fact nevertheless, that one of the heaviest items in the cost of their products is hauling them over poor roads.

Since good roads have been built in so many communities the auto truck has come. This means less expense, quicker trips, cheaper foods for city people and better profits for producers.

The old way of taking a team and hand needed in the crops and using a day or half day to take a small load to town will not be satisfactory for present progress in farming. The truck will take two, three, four or five times as much at a load and make the trip in perhaps one-fourth the time. Think of this saving in time and expense

Even where farmers are living a long distance from market they may co-operate with their neighbors and load a truck every day or two or three times a week and deliver their products in good condition, thus saving much trouble and expense.

Where perishable products are produced the truck is indispensable. Doubtless it will soon be so regarded in marketing hay and livestock where roads are suitable, as they now are in many parts of the West.

Farming is now a business occupation involving large investments and it is necessary that savings be made in marketing as well as in delivering products to the farm. The auto truck is here to stay.

THE ALBERTA WINTER FAIR

As we go to press prospects are good for 60 entries in the \$1,800 Baby Beef competition at the Winter Fair, Calgary, December 11 to 14. The surprise of the competition is that there are about as many girls competing as boys, and entries have been received from Manitoba and Saskatchewan as well as from all parts of Alberta. Judging of the Baby Beef competition will be on Tuesday afternoon, December 11, although judging of open classes will commence at 9:30 that morning.

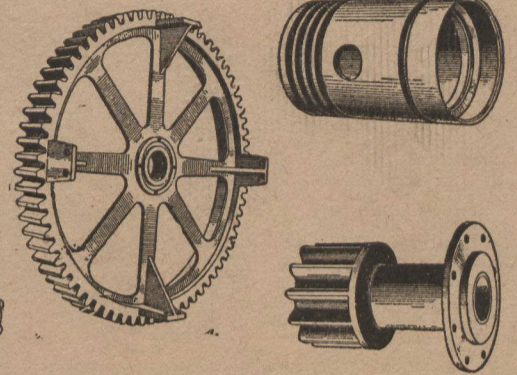
The Winter Fair entries will be more numerous than ever. In 1914 there were 469 entries; in 1915, 669; last year, 987; and this year the total will be about 1,500, and in addition about 2,000 poultry.

We are expecting a very large attendance. "There will be a large crowd from this district that were never at the Winter Fair before," is the way our members are writing from different parts of Alberta. The railways are giving a single fare for return trip, good going December 10 to 13, and returning up to the 17th.

Over 500 head of Clydesdales, Short-horns, Aberdeen Angus, Herefords and

Do not wait till Next Spring to Get YOUR TRACTOR REPAIRS

If you have a TRACTOR which needs OVERHAULING Write us immediately



Write us for prices now. We are not so busy in the winter and could have your repairs shipped any time you would be ready.

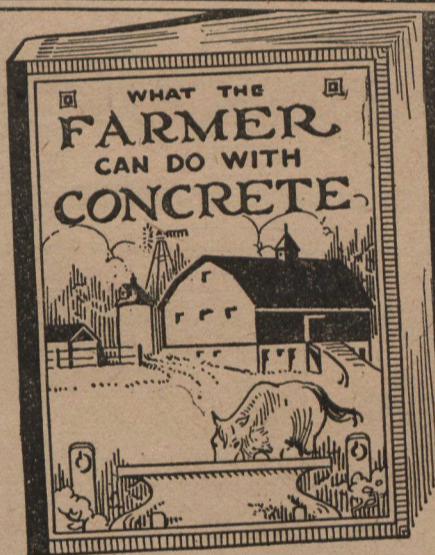
We make a specialty of REBORING CYLINDERS and fitting with NEW PISTONS and RINGS.

We have patterns for GEARS, PINIONS, etc., for ALL the different TRACTORS so we can make them at prices which will suit.

THE CALGARY IRON WORKS LIMITED

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IT WILL PAY YOU TO PATRONIZE "REVIEW" ADVERTISERS



Built from this Book

A BOOK that has helped more than 100,000 farmers to increase the value and the profits of their farms.

It will help you—by showing you how easy it is to construct improvements that are permanent, fireproof, weather-proof, vermin-proof, repair-proof. Contains a hundred pages of plain, practical suggestions, with plans and full directions for building barns, foundations, floors—everything in fact, that is best made of concrete. Mark on the coupon the subjects in which you are most interested and send with your name and address to

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<input type="checkbox"/>	FLOORS
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<input type="checkbox"/>	BARNs
<input type="checkbox"/>	FENCE POSTS
<input type="checkbox"/>	ROOT CELLARS
<input type="checkbox"/>	ROADS
<input type="checkbox"/>	SIDEWALKS
<input type="checkbox"/>	FOUNDATIONS
<input type="checkbox"/>	WHAT THE FARMER CAN DO WITH CONCRETE



Strength

Life's greatest assets are Health and Strength and without these existence becomes intolerable.

The Human Body, under the best of conditions, is a fragile structure, easily susceptible to climatic conditions, over-heating, exertion, mental and physical emotions. This subject requires constant attention if health and strength are to be continually maintained. The most sensible method of preserving health is to consume food which produces it. The food which produces health is that which contains Carbo-Hydrates, Proteins and Fats. COCOA is a palatable liquid food containing, when mixed with milk, all these necessary substances in a form that is not injurious to the weakest digestion. For the easiest and most pleasurable way to obtain just the right kind of nourishment the body needs, drink Cocoa. For the best and quickest results drink Cowan's Perfection Cocos.

COWAN'S COCOA—
"Perfection Brand" Purest and Best

Remember, for the best and sweetest results order this brand.

B-32

Registered Ayrshires for Sale



The demand for Ayrshires is growing. Good foundation stock is not over-plentiful, and prices hold firm. We are offering some good young males and females which will be useful in any herd. Among them is the yearling bull, "Don of Iddesley" and an extra fine April bull calf as well as some other high-class young males.

We also offer a number of females in which is the best blood of the breed. Some of these have freshened and others have just arrived at breeding age.

Our herd bull is "Humshaugh Confidence" 40535, sire, "Sprightly Spicy Sam" 33605, dam, "Nan of Menie" by "Lessnessock", "Oyama's Heir" Imp. Much of the young stuff we are offering are the progeny of the above bull.

LAYCOCK & McDONALD

CALGARY

PHONE M3765

ALBERTA

EDMONTON TRAIL.

SHIRES ! SHIRES ! !

LARGEST COLLECTION OF SHIRE STALLIONS
IN CANADA IN ONE STUD

I have still on hand a number of HIGH CLASS SHIRE STALLIONS both imported and home-bred, all ages, many of them show-ring winners. Others fit to win. All first-class animals to head any stud. Come and look over what I have to offer.

MY PRICES AND TERMS ARE RIGHT

TOM RAWLINSON - - INNISFAIL

STABLES IN TOWN

Holsteins will be sold by auction during the Winter Fair. These sales, added to the splendid opportunity of seeing such a grand lot of stock at the show, should be sufficient to induce stockmen and their families from all over the west to attend.

Dean Curtis, of Iowa, has the following to say of auction sales: "The public sale has an educational value not fully accredited. It is one of the best means of promoting the pure-bred livestock interests. Next to the show, it is the chief means of educating the public to higher standards and a higher appreciation of animal excellence. Some of the best students of the livestock business, and by that I mean the most practical and successful breeders, have gotten a large part of their schooling at the sale ring. There is a keen, practical interest in watching the buyers measure the value of a lot of sale animals as they pass through the ring."

The Alberta Livestock Association are endeavoring to improve as far as possible this method of selling stock. It is necessary for those holding private sales of stock on the exhibition grounds to be conducting a breeding establishment in Alberta, give the purchasers honorable treatment and to make prompt delivery of pedigrees and transfers. Where proper papers are not ready when payment is made the purchaser has the right to pay the purchase price to the Secretary of the Alberta Livestock Association to be held by him until the papers are provided. This in itself will be a great help to buyers.

* * *

The representative of the "Review" had the opportunity a few days ago of looking over the "Acorn Hog Self-Feeder," which is referred to in another part of this issue.

This is one of the best, if not the best, self-feeder of this description we have seen, and as an economizer of feed and preventative of waste, it should be what every farmer is looking for. In these days when every effort must be put forth to raise more hogs, and with the high price of feed, conservation of the latter is absolutely essential, and farmers and others who are in the hog business cannot do better than write the Metal Shingle and Siding Company, Calgary, for full particulars and prices of this feeder.

Among the other Alberta products turned out by the Metal Shingle and Siding Co. is a feed trough which slides back and forward on a sliding frame, and spaced off into sections to allow a hog to feed comfortably, and prevent the usual crowding out of the little fellow. This sliding trough obviates the necessity of entering the pen when feeding. A small square can be cut out of the front of the hog house and the trough pulled out into the open, filled with either feed or water, and then shoved back into place. Farmers coming into the Fat Stock Show next week will find it worth while to carefully look into the merits of both these products.

They will be exhibited on the fair grounds at the forthcoming Winter Fair.

HOW OUR WASTAGE CAN BE MADE TO WIN THE WAR

The wastage on every farm, and in most families of five, will feed a pig. From the pig we get bacon.

With the bacon we can buy a bond and feed a soldier.

With the proceeds of the bond the Government can secure arms.

Our soldiers if properly fed and armed will win the war.

Hence our wastage, wisely used, can win the war through the medium of Bacon and Bonds for Victory.

BACON AND BONDS.

Man's Dupreme Duty is to
Raise a Pig,
Feed a Soldier
and
Buy a Bond.

KINMEL SHORTHORNS

Mr. T. Bertram Ralphs, Calgary, Alberta, is selling on Thursday, December 13, 1917, a bunch of Shorthorn

heifer calves, many by the good bull Missie's Prince, by Prince Imperial. Missie's Prince was a well-known prize winner throughout the Dominion and one of the greatest sires of the breed. One of his get, Kinmel Prince, was sold for \$1,350 at the Calgary Bull Sale last spring, the highest priced Shorthorn ever sold in Alberta. Four Kinmel bulls were exhibited at the Calgary Spring Fair of last year and all secured prizes. This is really good stock and presents a fine opportunity to those in search of breeding stock.

DOLLAR'S CLYDESDALES

Mr. A. L. Dollar, of High River, Alberta, is holding an auction sale of Clydesdales, in conjunction with several other breeders, on December 12, during the Calgary Fat Stock Show week. He is offering for sale 13 head of stallions, from yearlings up. Among them is the good horse Cumberland Stamp (Imp.), Scotland's Victory, Scotland's Echo, Scotland's Yeoman, and Alberta Sentinel, and the Canadian-bred Highwood. Mr. Dollar has imported during the last half-dozen years a very large number of high-class stallions into this Western country, and the animals offered for sale are practically all of his own importation. The majority of them carry the blood and breeding of that great sire Scotland Yet. They can be seen at the Exhibition Stables, Calgary, after December 8.

BOW RIVER HORSE RANCH WILL SELL CLYDESDALE MARES

The Bow River Horse Ranch, Glenbow, Alta., of which Mr. G. E. Goddard is manager, purposes selling, on Thursday afternoon, December 13th, 12 registered Clydesdale mares. These are all well bred, are good producers, and range in age from four years up. Some of them have been well-known prize winners at Calgary Fairs, and all are believed to be safe in foal. Mr. Goddard states that not one of these mares has brought him less than \$1,000 from foals. The mares weigh from 1600 to 1800 lbs. apiece. This bunch will be sold without reserve. This is a good opportunity for farmers and others who are on the lookout for some good breeding stock.

HAMBLY & SONS WILL SELL HOLSTEINS

Irvine Hambly & Sons, White Star Ranch, Munson, Alberta, will sell their good herd of Holsteins at the Exhibition Grounds, Calgary, on Friday, the 14th of December. This high-class dairy herd is being dispersed owing to a change in farming operations and the scarcity of labor. The offering will include their three-year-old stock bull and also a number of their cows. It will also include a number of high-class females, all of whom have official dairy tests. Anybody on the lookout for good dairy stock should attend this sale. See their advertisement in this issue.

THORBURN & RIDDLE SELL CLYDESDALES

Messrs. Thorburn & Riddle, Davisburg, Alberta, are selling, on December 12, along with Messrs. A. L. Dollar and W. S. McKinnon, 20 head of Clydesdale females, two and three years old. These fillies are up to a good size, some of them of exceptional quality, and a great many of them will make ton mares. A number of them are sired by the well known prize winning stallion Black Ivory. Catalogues will be on hand on day of sale. This is another good draft of Clydesdale females which should find a ready sale.

SASKATCHEWAN ARRANGES FOR AGGRESSIVE HOG PRODUCTION CAMPAIGN

In the Saskatchewan Legislature November 27th Hon. W. R. Motherwell, Minister of Agriculture, made announcement on behalf of the government of the plan which will be

followed by that province in the Dominion-wide campaign for greater hog production. Mr. Motherwell's announcement came at the close of a debate on a hog production resolution introduced by a private member.

In brief, the plan of the provincial government is to extend the work of the agriculture department in the matter of pure-bred cattle to hogs. At

present the department has a scheme whereby the farmers may purchase pure-bred cattle with the assistance of the department, and it is now proposed to extend that scheme to embrace hogs.

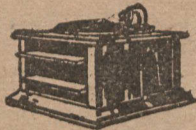
In making his announcement, Mr. Motherwell pointed out that the plan was in two distinct parts: First, the plan as applied to the farmers, and,

second, as applied to cities, towns and villages. The government intends to buy young sows on the Winnipeg or other stock yards and ship them to central distributing points in Saskatchewan. They will be sold, bred or unbred, as desired, to the Saskatchewan farmer at cost for cash. Unbred sows will be shipped as orders are received, and sows to be bred will

be kept for four weeks before being shipped. Pure-bred boars will be used for breeding purposes, and the department will follow the wishes of purchasers as to breed of boar to be used as closely as possible. In the cities, towns and villages the plan is to breed a number of sows to farrow in May, to be kept by the government until their litters can be weaned and

Out-of-Town Customers May This Year Join Our Annual

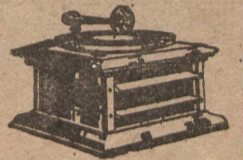
GRAFONOLA CIRCLE



Grafonola Model 24

\$30.00

\$5.00 Cash—4.00 Monthly
Including 14 Columbia Selections



Grafonola Model 38

\$44.00

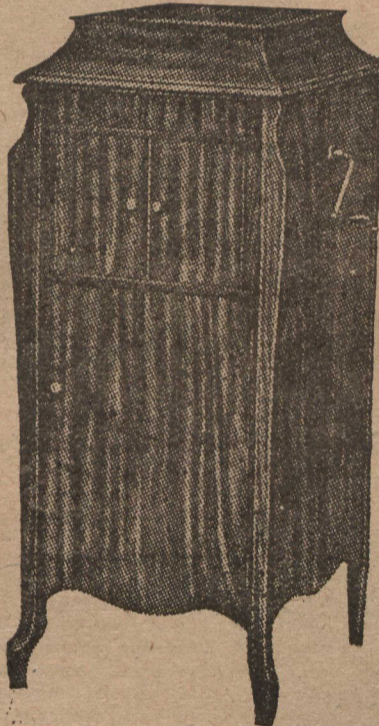
\$7.00 Cash—\$5.00 Monthly
Including 14 Columbia Selections

**No Interest
No Extras — Easiest Terms
On Catalogue Prices**

You have always wanted a Grafonola. Here, now, is your opportunity of getting one right away. We have removed practically every obstacle that has stood in your way of possessing one of these great entertainers. In the past we have confined this great annual sale to our city customers, as the popularity of the Grafonola circle and the difficulty in securing large stocks of these high-grade standard instruments made it necessary for us to do so. By special effort this year, we have been able to secure a much larger number of instruments and are thus in a position to throw open the many extra advantages of the Grafonola circle to our out-of-town friends.

**14 Columbia Selections
With Each Instrument**

You may choose these seven double-sided records from our large list of standard Patriotic Selections—Dance and Sacred Music—and, in fact, whatever pleases you most. Many of the world's greatest artists, are to-day making records exclusively for Columbia Grafonolas. This means that with a Grafonola in your home, you have all the world's best music—just the music you want—when you most want it.



**An Easy Way to Buy the
Phonograph You Want**

Only one system of payment is referred to in this announcement for the various instruments illustrated. A small cash payment is all that is required to send any of these beautiful, clear-toned instruments to your home. Should it better suit your individual convenience, we are willing to arrange, quarterly or half-yearly terms on the balance. Only a few instruments are mentioned here. The same advantageous terms, however, apply to any instrument in our catalogue.

**Advantages of
Joining Now**

You secure any Columbia Machine on the most liberal terms ever offered—a full year's exchange privilege—and free insurance in the event of death before payments are completed, the machine becomes the property of your family, without further payment, provided payments due are made to date. Owing to war conditions we are confident of increased prices after the New Year. And remember even on this deferred payment system we charge no interest.

**Don't Delay
Join To-day**

In the past four years many of our customers have been disappointed in not securing the particular style of instrument they desire, because they left their choosing until the last moment. Prices here quoted are good until December 31st, 1917, after that time we are confident that an increase will be made, over and above the present regular prices. We therefore strongly advise that you write us at once and thus avoid disappointment.

**We Pay
Express**

**The
Phonola \$99.50**

\$12 Cash—\$9 Monthly
Including 14 Columbia Selections

**Write Us
To-day**

HOW TO JOIN

Simply drop us a line, making your selection of any instrument shown in this advertisement—or if you prefer, we will send you our complete catalogue showing many other styles of instruments. Immediately on receipt of your first payment, the instrument and records will be shipped to your home express prepaid. Why not solve the family Christmas problem at this time with a gift that every member of the family will enjoy

We will Accept
**VICTORY
BONDS**
On any Purchase

We will Accept
**VICTORY
BONDS**
On any Purchase

Grafonola

Model 58

\$64.00

\$9.00 Cash—\$7.00 Monthly
Including 14 Columbia Selections

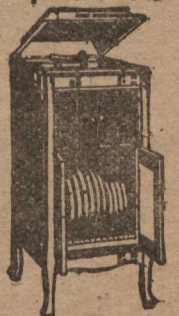


Illustrated
Catalogue and
Further
Particulars on
Request

Grafonola

Model 112 **\$118.00**

\$15.00 Cash—
\$10.00 Monthly
Including 14 Columbia
Selections



Illustrated
Catalogue and
Further
Particulars on
Request

WINNIPEG PIANO CO

333
PORTAGE AVE.,
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DIRECT FACTORY REPRESENTATIVES
STEWART, BERHARD HEINTZMAN, NORDHEIMER, CHICKERING, HAINES, BELL,
SHERLOCK-MANNING, DOHERTY, CANADA AND LESAGE PIANOS,
EDISON, COLUMBIA, EUPHONOLIAN AND PHONOIA PHONOGRAPHS.

J. W. DURNO

LIVE STOCK AUCTIONEER

CALGARY : ALBERTA



AUCTION SALES

Conducted
Anywhere

I have a large acquaintance among the farmers and breeders of both Eastern and Western Canada, and make a specialty of the selling of Pure-bred Live Stock. I am thoroughly familiar with the pedigrees, families, tribes and noted individuals of the leading breeds, and have had long and successful experience selling for live stock associations and private breeders. Write early for dates as I sell nearly every day in the sale season.

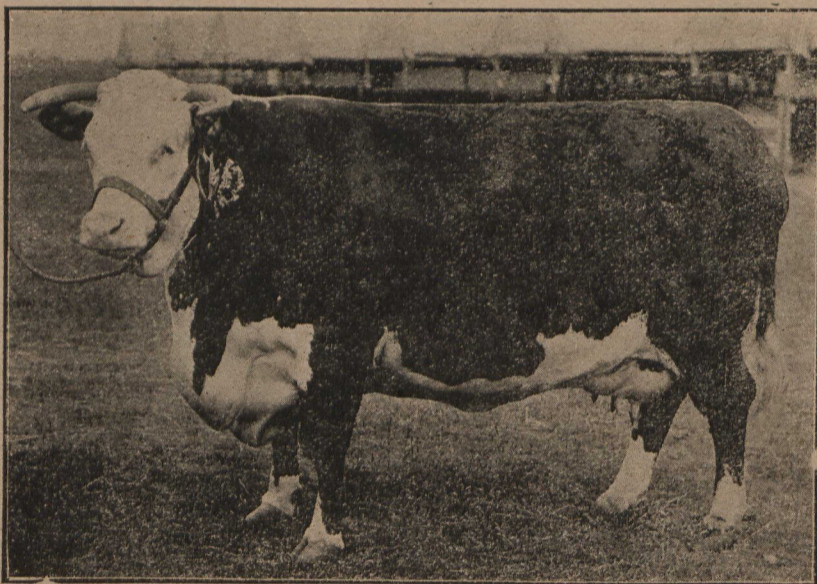
AUCTION SALES OF HORSES HELD EVERY MONDAY AND THURSDAY AT MIDWAY STABLES, CALGARY.

Write for particulars of coming sales if you require one animal or a carload.

THE MIDWAY SALES STABLES
4th Avenue and 15th Street, E.
CALGARY - ALBERTA

HEREFORDS FOR SALE

BULLS AND BREEDING STOCK ALWAYS ON HAND
FOR SALE



We have for immediate Sale a number of High-class
HEIFERS AND COWS
in calf to "Alberta Don 2nd" 18530, Champion Bull at
the Calgary Spring Show, 1916

WRITE US FOR FURTHER PARTICULARS

THOMAS BAIRD & SON
BREEDERS OF HEREFORD CATTLE
RED WILLOW - - ALBERTA

sold to householders who apply for them. Urban municipalities will be asked to modify their bylaws, if necessary, to permit of pigs being kept.

"When the farmers are told the actual facts of the situation in Europe," said Mr. Motherwell, "when our farmers and people generally know that men, women and children in France and Belgium are dying because they cannot get food, I am confident that the question of the price the farmer will get for his hogs will not worry him in the least. He will realize that hog production is a most necessary patriotic duty, and he will rise to the occasion."

A number of members on both sides of the house spoke on the resolution and plan, and all were agreed that the plan suggested was one that would materially aid in the matter of hog production and all gave the opinion that the farmer would rally to the plan irrespective of the price he would receive for his hogs.

TAKE CARE OF THE STRAW

We live in altogether abnormal times. The world is alarmingly short of food. Nothing that can possibly be used as animal food, and so turned into meat, should be wasted. By all means possible, the agricultural re-

more perpendicular sides, hauling the gathered up feed to the barns. A day at feed conservation now will be worth a week when the snow becomes deep.

GREATEST MEAT ORDER IN WORLD'S HISTORY

The greatest meat order in the history of the Chicago stockyards and the world was placed there November 28th.

Joseph Cotton, of the food administration, was the buyer, and the purchase was for the Allied nations, the Red Cross and the Belgian relief commission.

The order for the United States army failed to arrive in time, it was said, and will be divided later. It also was said the greater part of the order will be delivered after the first of the year and the cured meats will go to make up a considerable portion of the whole.

The order was placed under the new prices established on Saturday by the food administration, allowing the packer not more than 2½ per cent profit on meat sales. The order was unusual in that there was no competition, the whole thing being shared out at the government's own prices, practically at the dictation of Mr. Cotton.



Suffolk Ram Lamb Invermark 5, first in class and champion at the Calgary Sheep Sale, sold for \$112.00 to W. D. McLellan, Alrdrie. This lamb was sired by the great ram Culpho Earl C. I. Imp. 14007 and from the Invermark flock of A. G. Stewart, Stettler, Alta.

sources of Canada should be utilized. Great Britain, in her struggle for world freedom, is very largely dependent upon Canada's ability to supply her with food.

The depletion of the breeding and stocker classes of animals is bound to occur to some extent because of the keen demand for meat for immediate consumption. But this is not the only cause for the liquidation of herds. In southwestern Manitoba many farmers are reducing their herds considerably because last summer's drouth has left them seriously short of feed. In other parts of the country there is a much greater supply of feed.

An appeal is made to every farmer everywhere to take care of every pound of feed. Good baled straw, laid down in Winnipeg, is today worth \$7 per ton. This means that it could be brought from a point 150 miles away and still be worth from \$4.50 to \$5 per ton at the shipping station. These figures are not quoted to induce shipment to Winnipeg, but only to cause every farmer to know that this year "feed is feed," no matter to what class it belongs. It is possible that before many weeks a movement of clean fodder from the north to the south of Manitoba may be in progress.

Before much snow has fallen every farmer can do a great deal to gather up his feed supply. Straw piles as left by the thresher are spread out at the bottom, and invite waste through the edges being drifted over. This is the time of year to clean up these edges and leave the stacks with

IMPORTANT CHANGES IN ALBERTA SHEEP DIVISION

James A. Hill, who for the past year has been in charge of the wool grading operations in Alberta on behalf of the Dominion live stock branch with headquarters at Calgary, will shortly go to Toronto to take charge of some important experimental work which the department will undertake. Mr. Hill has been very active in connection with sheep and wool investigation and promotion, and his efforts have greatly accelerated the programme for better marketing facilities, and for improvement in the methods of wool preparation. He is one of the best wool experts in America, having served his apprenticeship in some of the largest textile centres in New England. He was engaged for several years in the wool business, both at Boston and Philadelphia, and previous to coming to Alberta was in charge of wool grading work in Nevada for the National Wool Warehouse & Storage Company, a concern which is financed and handled entirely by wool growers. It was largely due to Mr. Hill's efforts that the southern Alberta consignments of wool to Toronto last year were so successful.

Lieut. Thos. O. Clark, who has just returned from France, where he put in 23 months' service, has been appointed to succeed Mr. Hill in Alberta, and will take over the work within a few weeks. Lieut. Clark is no stranger to the live stock branch, having been engaged in the work previous to enlisting. He was stationed in the maritime provinces when war broke

SOLD IN CALGARY BY

THE MATTHEWS MUSIC HOUSE, LIMITED
214A EIGHTH AVENUE WEST
PHONE M 5283

IMPERIAL PHONOGRAPH CO.
136 SEVENTH AVENUE EAST
PHONE M 1706

D. J. YOUNG COMPANY LIMITED
715 FIRST STREET WEST
PHONES M 2948 M 2959

out, and he lost no time in getting into khaki, going over with the first contingent as a private. He was promoted on the field, where he was attached to an artillery unit. Mr. Clark is a graduate of the Ontario Agricultural College at Guelph, where he specialized in live stock work, and he will be welcomed to Alberta as an expert along those lines.

AGRICULTURAL EVENTS AT SASKATOON

Practically the whole month of January will be given over to activities at the College of Agriculture Saskatoon. During the first week the Seed Fair exhibits will be assembled and judged and the winning samples will be on view during the Convention of Agricultural Societies which is held the second week. The third week will be Field Husbandry Week for the farmers, and Live Stock Week will be the last week of January. This plan will enable those who may be unable to attend during the whole time to take in the week which they feel will be most profitable to them. The plan is to be further elaborated in order to permit complete discussion of one topic in one day. There will be a wheat day, an oats day, a horse day, a cattle day, etc. This will allow students who may wish to attend for one day to do so.

W. S. MCKINNON WILL SELL CLYDESDALES

Mr. W. S. McKinnon, Olds, Alberta, purposes selling on Wednesday, the 12th of December, 1917, during the Calgary Winter Fair week, some 12 head of mares, comprising Rose of White Hill, an eight-year-old imported female by that great sire Everlasting; Royal Rose Star by Baron Garthy; Baroness Hiawatha, a nice three-year-old by Sir Hector Westfield, and Flash Jean, a five-year-old by Flash Sturdy. The balance of the mares are by such well known sires as Baron Garthy, Matchless and Montrave Magnus and others. This offering comprises a particularly fine lot of good Clydesdale mares and there should be a good demand for them, as such mares are scarce in Western Canada. They are in foal to Kitchener of Khartoum with the exception of one of them which was bred to Roycroft Motto.

LAST CALL FOR YULE & BOWES' BIG SHORTHORN OFFERING

Yule & Bowes' big Shorthorn sale, which will take place Wednesday, December 12th, at the Midway Sale Stables, Calgary, augurs well to be an event of no mean importance. Catalogued in the sale are 100 head, comprising young bulls and young heifers and a few breeding cows well along in calf.

In the offering also is a number of promising herd bull material, the get of some of the greatest sires to be found in Canada today. Besides,

Columbia
Grafonola
and Columbia Records



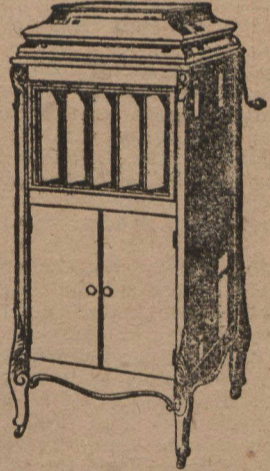
The Merry Lilt of the Dance

Let it be heard often in the home. It chases gloom, it makes for joy—inspiration—courage. And of all instruments the Grafonola is the greatest exponent of dance music with its mellow purity of tone and its instant readiness to provide music that "won't let your feet keep still."

The electric Grafonola shown above requires no winding, the electric motor is part of the instrument—just attach the cord to a lamp socket. Here is the very height of convenience.

Thousands of homes will delight in a Grafonola this Christmas. Why not yours too? See your Columbia dealer—before the Christmas buying depletes the stocks.

Grafonolas are priced from \$24 to \$300—every instrument in tone and design is a masterly exposition of Columbia leadership. Easy terms arranged.



Columbia Grafonola, Price \$270

Hear the wonderful Christmas Columbia Records—they'd make your Christmas happier.

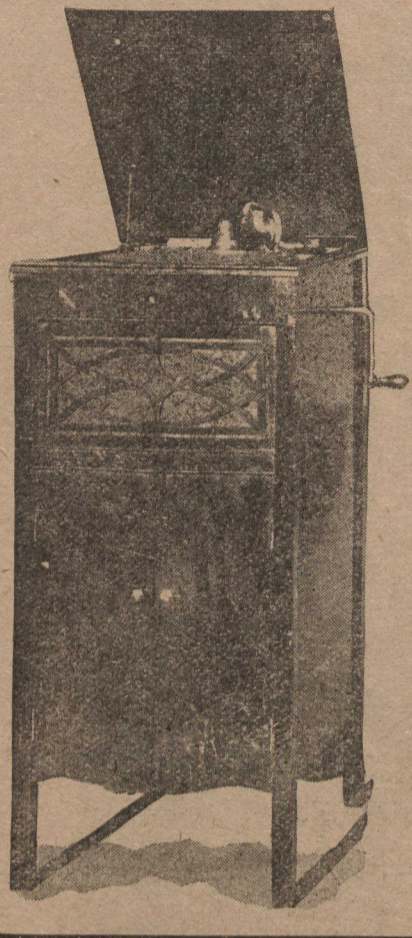
Columbia Graphophone Company

SOLD IN CALGARY BY

The Hudson's Bay Co. 4th Floor

GRAFONOLAS SOLD ON EASY TERMS

THE XMAS PRESENT FOR THE WHOLE FAMILY



References :
CANADIAN BANK OF COMMERCE
CALGARY

OUR INTRODUCTORY OFFER!

of our beautiful new 1918 Model
100 "MERITONE" PHONOGRAPHS \$107⁵⁰
a regular \$125 instrument, we are offering for **WITH 6 RECORDS**

TO INTRODUCE OUR 1918 MODEL, which we have just placed on the market, we are offering 100 at a low price, considering the Merits of the instrument, and have no hesitation in saying that it is the **Best Value For The Money Now Offered In Canada.** It has all the good points of the high-priced machines, and then some! As the name states, it is sold on its Merits.

Description of our 1918 Model

CASE.—The case is of Chippendale style, severely plain but artistic in proportion and design, in piano mohogany finish. Cabinet contains shelves for albums or assorted records. Size: 44½ inches high, 18½ inches wide and 20 inches deep.

MECHANISM.—The motor is double spring, reliable make, and runs quietly and smoothly. Tone arm of latest type, with **Adjustable Balance Device**, so that weight of sound box can be adjusted to suit purchaser. **Universal Sound Box**, that will **Play Any Make Of Disc Records**,—Columbia, Victor, Edison or Pathe,—**Four Machines in One.** Tone modifier which enables delicate shading.

STONE.—It is not the usual harsh, noisy loud tone of even the so-called best makes, but it is a **Satisfying, Rich, Mellow Tone**,—like a beautiful violin,—resonant and vibrant.

PRICE.—\$107.50, with 6-10 inch double-sided records, (12 selections). Out-of-town customers wishing to purchase on easy terms must furnish bank references. **Cash With Order** customers will receive 12-10 inch double-sided records of their own choice. State class of records wanted, and we will change what you do not like, or write for a catalogue.

BUY DIRECT FROM THE MAKER

Save the Middleman's Profit.

We carry the largest stock of Columbia Grafanolas and Records in the West.

IMPERIAL PHONOGRAPH COMPANY

136 Seventh Ave. East, Calgary,

Long Distance Phone M 1706

they are offering the good bull 'Banner Bearer,' sired by 'Oakland Star' (Imp.), and champion bull at Edmonton Exhibition. Also the Calgary champion 'Missies' Wonder Junior,' and the two-year-old bull 'Roseberry,' recently imported from the United States from the well-known breeder, Leslie Smith & Sons, of St. Cloud, Minnesota. Five young bulls out of the good bull 'Missies' Prince' and half-brother to the \$1,300 bull at the Calgary Bull Sale are in the offering.

Many of the best families of the breed are represented in the offering, and a glance at the catalogue specifies such noted families as the Marr Missies, the Lavenders-Minas, the May Violets, the Marr Stamfords, the Urys, the Bruce Mayflowers, the Nonpareils and others of equal repute.

Suffice it to say that there has seldom been placed on the market for the public approval such good Scotch breeding and noted individuality.

Yule & Bowes are but young breeders, but few breeders have attained so much in such short time. A glance at the show record of their stock in Western Canada since the year 1914 is mute evidence as to the quality of their stock. This, together with their straight business methods, has endowed the public with much confidence in their recent sales, and thus, their third annual sale, promises to be above the standard of other offerings. It will be to the interest of all lovers of good Shorthorns to attend their sale. Reduced rates can be had on all railroads. Write for catalogue to Yule & Bowes, Carstairs, or J. W. Durno, Auctioneer, Midway Sale Stables, Calgary.

CAMPAIGN OF ALBERTA AGRICULTURAL DEPARTMENT RE INCREASED PORK PRODUCTION

Hon. Duncan Marshall, Minister of Agriculture, announces his plan for increasing the hog production in

Alberta, at the request of the Food Controller, as follows:

Arrangements are being made by the Provincial Department for the purchase of some five or six hundred breeding sows. These are to be collected at Calgary and Edmonton, to be resold to farmers at cost. A large number of these sows no doubt will be bought at the packing plants where they have been shipped for slaughter, and in that way they will be rescued to be used for breeding purposes.

The agricultural societies throughout the province have been requested

Arrangements are being made also for doubling the number of breeding sows on all the Demonstration Farms. The Live Stock Commissioner is also holding a number of meetings throughout the province with a view to stimulating the increased production of hogs, and in this work he is being assisted by President Wood, of the U.F.A., Dean Howes, of the College of Agriculture, and some members of the Department.

Farmers are being urged to take this matter up as a war measure without any regard to profits, and are urged to do it as a public necessity,



Clydesdales at pasture in 1917 at Mount Pleasant Stock Farm, Napinka, Man. Owned by McKirdy Bros.

by the Minister of Agriculture to organize their districts, and make a thorough canvass of farmers, with an effort to induce them to put in two or three extra breeding sows, either to be purchased in the locality or to be bought from the Department.

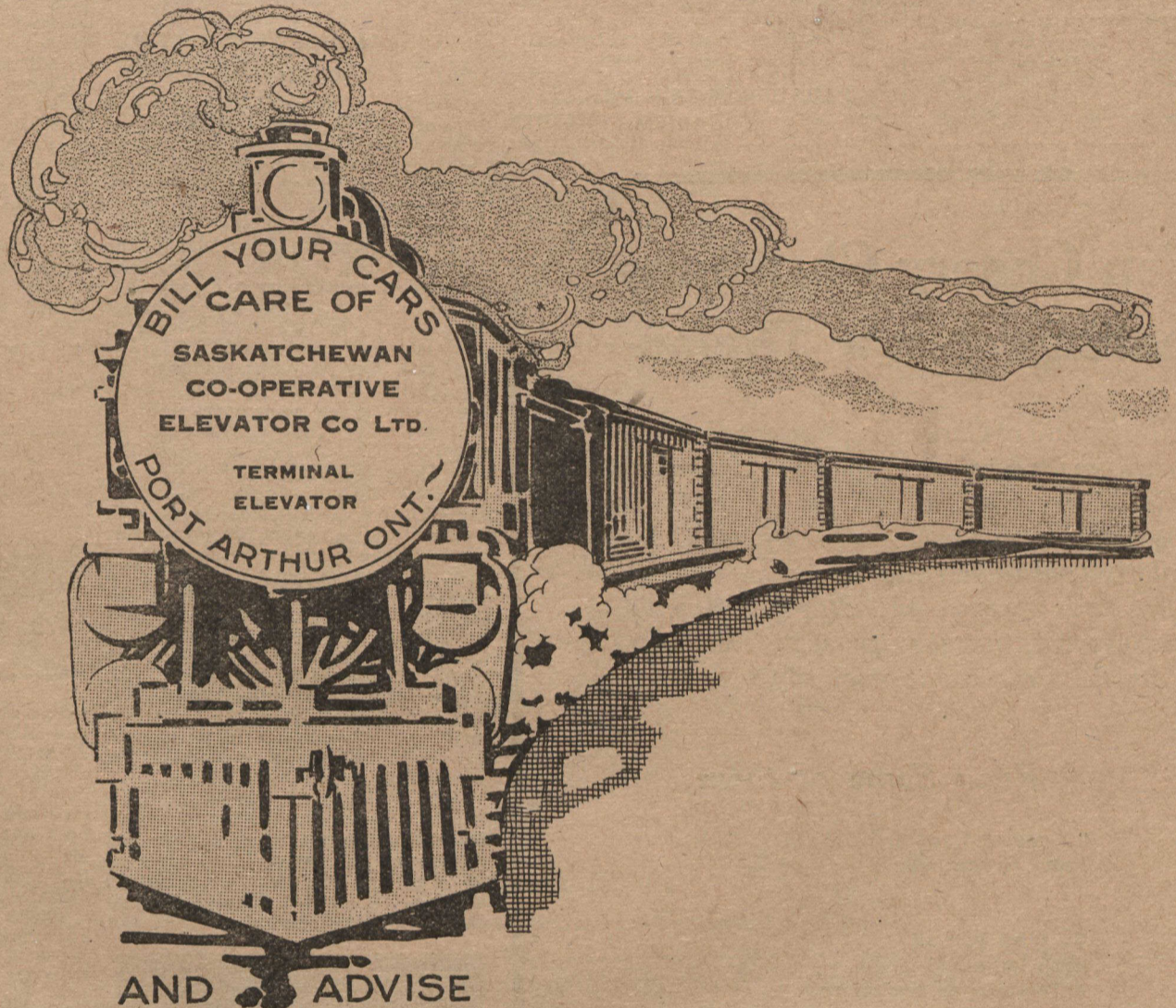
The purchase and distribution of the breeding sows will be in charge of W. F. Stevens, the Live Stock Commissioner, and all parties wishing to purchase these sows will communicate with Mr. Stevens, at his office, Parliament Buildings, Edmonton.

regardless of the cost of grain. The appeal and the canvass will be made in a systematic manner and it is expected it will meet with very general response. Any farmer is at liberty to purchase sows that they may want direct from the Department without relation to his agricultural society, but if a number of farmers can unite through the agricultural society or through the local union of the U.F.A., better shipping arrangements can be made and the cost somewhat lessened, but this appeal is being made gener-

ally throughout all the newspapers in the Province of Alberta, for the farmers to assist in the production of fats which is an absolute essential to the winning of the war.

THE BEVINGTON—DUKE OF SUTHERLAND COMBINATION SALE OF HOLSTEINS

George Bevington, Winterburn, Alberta, who owns the well-known herd of prize-winning Holsteins, will offer for sale at the Edmonton Fair Grounds on Dec. 20, some 40 head in conjunction with the Duke of Sutherland, Hay Creek, Alberta, who will offer 30 head. Mr. Bevington's offering will be comprised for the most part of females; there will also be 7 head of choice bred bulls which are fit to head any herd. Among them is the five-year-old Count Pontiac Artis, without exception the best bred bull ever offered at a public sale in Western Canada. He is sired by King Pontiac Artis Canada, A. C. Hardy's great stock bull, with 44 tested daughters, the highest of any bull in Canada. Count Pontiac Artis has for dam Countess Segis, the highest record daughter of King Segis. His two grandsires are King of Pontiacs and King Segis, the two greatest bulls of the breed through their offspring. There will be six of his yearling heifers in the sale from high producing dams. There is also the great show bull Sylvia Champion and Frank Fafont DeKol, the unbeaten senior yearling all over the Western circuit in 1917. The other offerings in bulls will consist of four sons of Sir Belle Pietertje, the grand champion of Regina, 1917. Among the females to be sold is Black Beauty Dewdrop, a consistent winner at all the large shows in the West, 1916-17, and a daughter of hers by Count Pontiac Artis. Another is Beauty Dot DeKol, a great show and test winner and easy winner in the dairy test, Brandon, 1916, over all heads.



AND ADVISE
**SASKATCHEWAN
CO-OPERATIVE
ELEVATOR Co. LTD.
WINNIPEG**

**TRACKAGE CONNECTIONS
C.P.R. AND C.N.R.**



BOVRIL
Repels Colds, Chills, and
Influenza

Day or Night Calls Given Prompt Attention
S. H. McCLELLAND
VETERINARY SURGEON
CALGARY

HONOR GRADUATE ONTARIO VETERINARY COLLEGE
RESIDENCE: 202 Devenish Apartm's
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CALLS LEFT AT OFFICE: McGill's Drug Store
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PARADISE STOCK FARM

Registered Shropshire Ewes,
Registered Oxford Ewe Lambs
One of the best large flocks of Shropshire Sheep in Canada.

Choice Registered Yorkshire and
Duroc Jersey Swine

PARADISE STOCK FARMS
LACOMBE :: ALBERTA

There are also quite a few others that have been prize winners at the Western Fairs in the last few years. The balance of the females are young cows of high producing families, good individuals and regular breeders, to calve this Winter and early Spring, bred to the great show and herd bulls.

The Duke of Sutherland's herd at Hay Creek, Alberta, is also well known in the Holstein business. He is selling his entire herd including his great show bull and herd header Principal DeKol. His female foundation stock was purchased at long prices from the best herds in the East a few years ago and with careful breeding and weeding now number some twenty odd. Prospective purchasers looking for some good cattle will do well to pay particular attention to the animals offered by either of these breeders.

**DEATH OF SASKATCHEWAN'S
LIVE STOCK COMMISSIONER**

Just as we were closing the last form of our November 20th issue, we received word that Lieut. J. C. Smith had been killed in action in France, so made brief mention of that unfortunate occurrence.

During his stay in the West Mr. Smith had made a host of friends who mourn his loss, and sincere sympathy is extended to his wife and four children now living at Cartwright, Manitoba, also to his widowed mother in Scotland. Fair and honest in his dealings with all, steadfast and loyal to his friends, fearless and true as a soldier, he was a man every inch of him, the type that Canada can ill afford to lose. In him the Saskatchewan Department of Agriculture loses a trusted, efficient official, a practical, thorough live stock enthusiast, a fluent speaker and an able demonstrator, who has done much to further the live stock industry in Saskatchewan. The esteem in which the late Mr. Smith was held by the stockmen of the province found expression at the time of his enlistment, when he and the late Major Mantle were presented with signet rings and illuminated addresses. Besides filling the important position of Live Stock Commissioner, Mr. Smith also acted as secretary of the various breed associations.

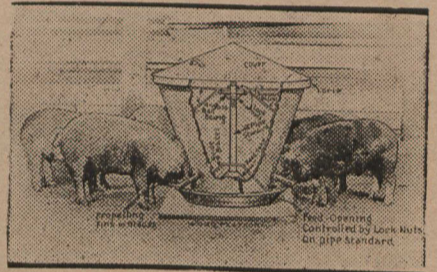
Lieut. J. C. Smith was born at Inverness, Scotland, December 14th, 1885, and after attending schools and colleges in his native land, came to the West in 1902, where he started farming. When the Manitoba Agricultural College opened in 1906, Mr.

college career and at that time demonstrated his administrative ability. After graduation in 1911 he was manager of the Hon. W. C. Sutherland's farms near Saskatoon, and a year later accepted the position of Live Stock Commissioner, which he ably filled until the time of his enlistment.

In the winter of 1914-15 Mr. Smith was in charge of the gift of 1,500 horses made by Saskatchewan to Great Britain, and was then officially received and thanked in the name of the Empire by the late Lord Kitchener. In July, 1915, he obtained a commission as Lieutenant with the 68th Battalion at Regina, being later promoted to Captain, and as such he went over to England with the 68th Battalion on Easter Sunday, 1916. While in England he took various courses and acted as musketry instructor for several reserve battalions. In order to be sent across to France as soon as possible, Capt. Smith reverted to Lieutenant and in this capacity was attached to the famous "Fighting Fifth" as transport officer under Col. Dyer, of Minnedosa, in the spring of 1917. No details of his death are as yet available, but it is supposed that he fell while taking munitions to the front line.

Lieut. Smith is the fifth man from the Saskatchewan Department of Agriculture to give his life for King and Country, the others being Major Mantle, Private E. H. Hawthorne, Lieut. H. N. Thompson, and Lieut. N. H. Pawley.

THE ACORN HOG SELF-FEEDER



The above small cut illustrates the new Acorn Hog Self-Feeder in actual use. Hogs, live weight are selling at from 16 to 18 cents a pound. Feed of all kinds is expensive and waste is not only bad business but is sinful, particularly when all Governments are emphasizing the positive need of increased production and economy.

There is big money in hogs if fed advantageously and it is your duty to produce. No less an authority than Dr. J. W. Robertson points out that 4 1/2 lbs. of wheat properly fed will produce one pound of live pork. Results equal to the above are being achieved by users of the Acorn Hog Self-Feeder, and you owe it to yourself and to your Country to, without delay, investigate its merits.

This is an Alberta product, and is manufactured in Calgary by The Metal Shingle & Siding Company. They will be only too pleased to send you all particulars. This same firm manufacture a great many practical metal lines for farmers, such as, Hog Troughs, Corrugated Stock Drinking Troughs, "E-Z" Grain Picklers, Ice-less Refrigerators, and, in fact, anything in the metal line. A card will always bring you any information desired.

STOP AND THINK

Before you sell that brood sow,
Stop and think.

Before you eat that bacon,
Stop and think.

There are those who've gone to fight
For the things that we call right
'Gainst a foe whose God is Might—
Stop and think.

They appeal to you for meat,
Stop and think.
But you'd destroy what they would eat,
Stop and think.

Will you listen to their call?
Will you hearken, one and all?
Will you do it ere they fall?
Stop and think.



Lieut. J. C. Smith

Smith enrolled as a student and graduated with high honors in 1911 as a member of the pioneer class. While at College he was considered one of the best live stock judges and was a member of the first stock judging team sent to Chicago from the Manitoba Agricultural College in 1910. Popular with both students and faculty, he filled important positions on the student executive body during his

**Ten Cheery Christmas
Greetings for a Dollar—**

YOUR message of Christmas cheer can find no better medium for expression than a Christmas Greeting Card, and you can find no better Christmas Greeting Cards than in the new Dingwall Catalogue. Particularly good value is the carefully chosen assortment of 10 cards at \$1.00—including mailing envelopes. The greetings touch just the right spot. The designs are artistic and the workmanship absolutely beyond question.

Just Read Some of them

To you and yours,
From us and ours.

* * *

To Wish you all
Both large and small
A Very Happy Christmas.

* * *

All good befortune you
and every day
Some ray of golden light
fall on your way.

* * *

Christmas would never seem to me,
Just the thing that it ought to be,
Unless to you my good old friend,
A Christmas Greeting I could send.

Pin \$1.00 to this—give your name and address and the cards will go to you by first mail postpaid, subject to exchange.

You will also receive a copy of our handsome new catalogue free and postpaid—it's yours for the asking, whether you order or not.—Write to-day.

D. R. Dingwall Limited
Diamond Merchants, Jewellers, Silversmiths
Winnipeg



To My Farmer Friends of Canada

You will remember my announcement made to you last summer previous to the issuing of my August 15th catalogue. I told you then of the big advance that was bound to come and advised you all to BUY and buy LIBERALLY of everything you were going to need in farm machinery.

Hundreds of my friends took advantage of my warning and saved even more than I promised they would. Prices in many lines advanced as much as 33 per cent. and those who waited until after the fall catalogues were out were forced to pay the advanced prices.

Now the same conditions exist to-day. Materials are becoming more scarce every day and the factories everywhere are short of help and cannot begin to supply the demand. The spring catalogues will be out about February 15th, and you can depend on it, will show another big increase in price. It's got to be. It's no longer a question of PRICE but of SUPPLY. Many of the houses will be unable to make machinery deliveries at ANY PRICE—they won't have the goods to sell. Those who are actually manufacturing their own lines are of course in the best shape, and can protect their customers to a great extent.

The agents and dealers who are obliged to BUY from the factories and then add on EXTRA PROFITS are the ones who are going to boost prices the most as they will be compelled to pay much higher prices for everything they sell than they ever did before, and even then their supply will be short.

NOW LISTEN! You farmers have nearly ALL had a good year, you have made up in price what you may have lacked in quantity. But that's not enough. A dollar EARNED is only EARNED when you can SAVE IT, and you CAN'T save it if you wait for still higher prices before making your spring purchases. The wise man is the one who will step in NOW before the first of January and BUY at prevailing prices, and not wait for the big boost that is surely coming. You can manage it somehow, and as I said before it will save you from 20 to 30 per cent. in price—and that's making real money pretty fast.

I will be frank with you and tell you now that I will be compelled to advance Galloway prices in my February 15th Spring Catalogue. How much I do not yet know, but it will be enough to make it pay you to ORDER NOW. I have just placed a big line of Engines, Cream Separators and Manure Spreaders on the floors of my Winnipeg house ready for IMMEDIATE delivery at the old prices. So long as they last you can have them, but at the rate orders have been coming in the past few weeks they will not last long.

Now give this message serious attention. Take the bull by the horns and do as the brokers do in handling your wheat—make money by buying on a rising market.

Your friend at Winnipeg,
Wm. GALLOWAY, President.

The Great Galloway Line of Masterpiece Engines

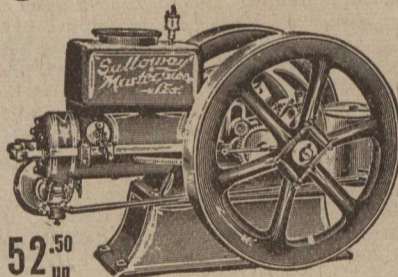
From 1 1/4 to 16 Horse Power

Burns Gasoline or Kerosene

Masterpieces of power and efficiency—Large bore and long stroke. Guaranteed to develop power far in excess of their ratings. Easy to start in coldest weather and very economical in fuel consumption.

30 Days' Free Trial
CASH OR CREDIT

Try the size you like best on your own farm or place 30 days' free and then buy with a 10 year legal guarantee. My big free book tells all about it. Write for it to-day and take advantage of present low prices.



52.50 up

Galloway Low Down Manure Spreaders

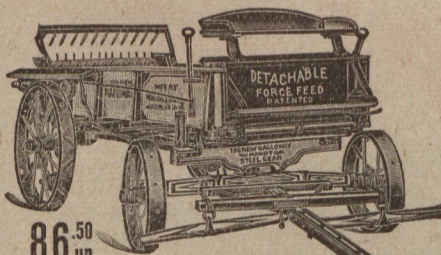
The Machine of Many Exclusive Patents

Lightest draft machine on the market. Double chain drive, steel beater, positive force feed, endless apron, and many exclusive patents not found on any other machine.

30 Days' Free Trial—Cash or Credit

I ship them everywhere on 30 days' free trial test. You can't afford to let your farm run down. A Galloway spreader will increase its value every year and insure your crops besides. A streak of gold follows a Galloway everywhere.

Send for my free book that tells all about it.



86.50 up

The Wm. Galloway Co. of Canada, Limited
Princess and Bannatyne Sts. Winnipeg, Man.

BUY NOW!

Save from 20 to 30 %

The Light Running, Close Skimming Galloway Cream Separator . . .

Many agents and dealers will tell you that a high-grade cream separator can't be built and sold at the prices I charge. BUT DON'T BE FOOLED. They know down deep in their hearts that the reason for Galloway's Low Prices is my method of selling direct from factory without the expense of excessive profits for the many middlemen—the jobbers, agents and dealers. You needn't worry about quality—I have taken care of that in my 20 years of experience in the manufacturing of farm requirements. There are thousands of Galloway Separators in use all over the world—in the States—the Dominion of Canada—and many of the foreign countries. Every one of my machines have been sold on the 90-day re-trial and test plan with a legal binding certificate of guarantee covering them for 10 long years. I don't ask anyone to take chances on buying a Galloway Separator. I simply ask you to try it out on your own farm for 90 days. Then if it proves as finely made as the high-priced machines; if it proves the easy-running, close-skimming and sanitary separator I claim it to be—YOU KEEP IT. If it don't, you send it back, and if you have paid me any money on it I will refund it by first mail and pay the freight and hauling expenses besides.



90 Days' Free Trial

Cash or Credit

Buy on the Plan You Like Best

Here are My Prices Save by Buying Now

No.	Capacity per Hour	Price
4	375 lbs.	45.50
7	500 lbs.	52.50
9	750 lbs.	59.50
11	950 lbs.	67.50

Send for My New Free Cream Separator Book

If you are in any way interested in a cream separator you need this book. It is a regular Encyclopedia on the skimming question. It gives in actual figures the percentage of loss in butter fat by all the different methods of skimming; it tells you how to get the most money from your cows—how to cash in at the creamery and many other things that you should know if you are milking two cows or more. Besides this it tells about the New Galloway Sanitary Cream Separator—how it is made—why it's the machine you need—how I make so low a price—why it's the most sanitary, easiest running, closest skimming and most dependable machine possible to build. These and many other points of vital interest are given in this big book of cream separator facts, and you can have it free if you fill out the coupon and state which line you are interested in.

BE ONE OF THESE SATISFIED CUSTOMERS

Wm. Galloway Company of Canada
Winnipeg, Man.

Gentlemen—Just a few words about the No. 9 Cream Separator which I bought from you. It is a dandy. It runs easy and as smooth as a piece of lemon pie. It does a very nice and clean job of skimming, and it will do all you claim for it.

Yours very truly,
PETER BOXLER, Bremen, Sask.

Buy this Complete Pumping Outfit NOW While the PRICE IS LOW

Outfit consists of my 2 1/4 h.p. air cooled masterpiece engine that sells at \$68.50, and my No. 4 Double Geared Pump Jacks at \$9.50. You get the combination outfit at \$74.50—a saving of \$4.00 if you buy now.

Remember the outfit is fully guaranteed in every way and the price will positively go up in my next catalogue. My big free book describes in detail this complete outfit and how you can buy it for cash or credit on 30 days' free trial.

Complete Outfit 74.50



Get My Latest Price Book and Liberal Terms of Selling

This book tells all about the Galloway line of farm necessities. How I build them in my own factories and sell them direct with just one small profit added to actual cost of manufacture. It also tells you how to increase your profits on the farm or in the dairy; how to cash in at threshing time; how to make your cows bring home a pay check every week. This and much other valuable information is yours if you fill out and mail the coupon, being sure to check off the lines you are most interested in.



Mail the Coupon
Check the line you are interested in

- Cream Separators
- Gasoline Engines
- Manure Spreaders

PATRIOTIC PRICE COUPON—Mail It To-day!

WM. GALLOWAY CO., Winnipeg, Man. Dept. 13

I am interested in item marked with an X. Please send me your new book of Patriotic prices.

Name

Address



Thomas A. Edison

Mr. Edison's Wonderful New Phonograph!

Success for Mr. Edison! Life-like music at last! For years, the world's greatest inventor worked night and day to make the music of the phonograph true to life.

At last he has been crowned with success! 30 years ago Mr. Edison invented the first phonograph. When his patents expired, others copied his ideas. But he himself was not satisfied. This was not real music. It could not take the place of the living singer or player. His ambition was to invent a phonograph that gives you genuine music. Something that would bring the joy of true music into your life even though you couldn't play or sing a note.



See what the New Edison can do for your home!

Here it is. The New Edison. The phonograph that Re-Creates the living tone. Send the coupon on the opposite page and find out about this wonderful new phonograph.

Is Your Home Happy?

How about your home? Is it a real home? Is it something more than a house with a yard or a farm around it? Is it something more than a place to eat and to sleep and to shelter you? Is it a place where the united family can gather together and be happy? Has it something that will bring joy into the life of father, mother, grandparents or children? Has it something that will make your friends enjoy visiting you? That is happiness. That kind of a home is a happy home. Such a life is the only life worth while. And anything that will bring you such a life is a necessity. It means as much to you as food and clothing. Money cannot measure its value.

Put music into your home and you will have the greatest influence for happiness that the world has ever known. As long as history has been written, music has been man's inspiration. It is the mother's lullaby, the warrior's cry, the lover's song—who, indeed, does not find the expression of all his moods and emotions in music?

And now Mr. Edison's genius has put real music within your reach. You can make it part of your life.

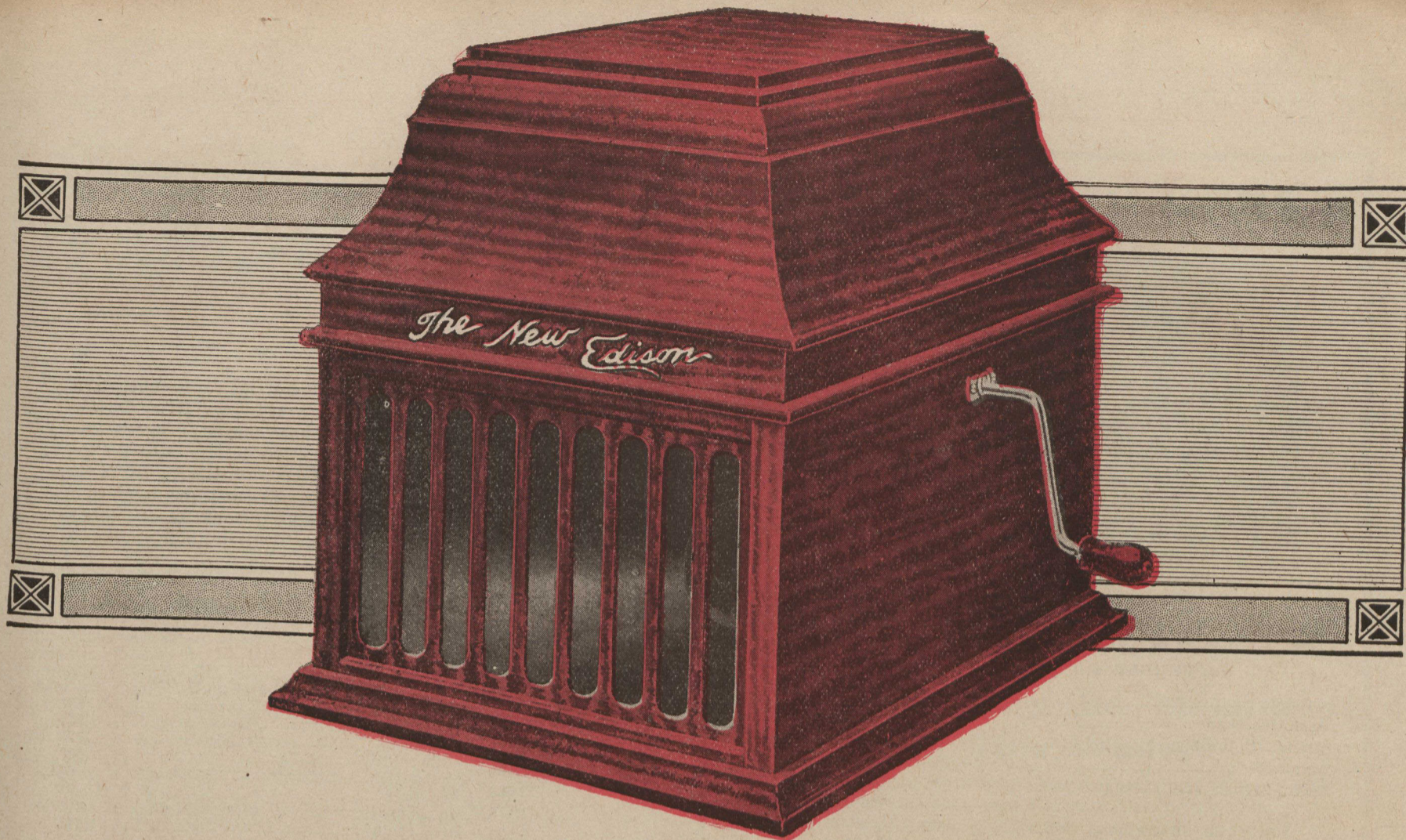
Read Our Offer!

Just read on the opposite page how easy it is for you to get the New Edison into your home.

Consider how important—how invaluable—good music is to your life. Then read our offer. How ridiculously small is the expense of making music part of your home! Find out, at once, about Mr. Edison's wonderful

new phonograph. Send the coupon on the opposite page for our free catalog. Get full details of our offer. See why you need not be satisfied with anything less than Mr. Edison's great, new instrument.

F. K. Babson, Edison Phonograph Distributors, 355 Portage Ave., Dept. 369, Winnipeg, Man.



Only \$1.00

New Edison Catalog FREE

Yes, we will send you the New Edison, the product of the world's greatest inventor's genius, the phonograph with the wonderful diamond stylus reproducer and your choice of the latest Diamond Amberol Records on *free trial without a penny down*. On this offer, you can now have the genuine Edison, the instrument which gives you real, life-like music, the finest and best of all phonographs at a small fraction of the price asked for imitations of Mr. Edison's great instrument. *Seize this opportunity.* Send the coupon now for free catalog.

Get the New Edison in Your Home on Free Trial!

Entertain your family and friends with the latest up-to-date song hits of the big cities. Laugh until your sides ache at the funniest of funny minstrel shows. Hear the grand old church hymns. Hear the crashing brass bands, the waltzes, the two-steps, the solos, the duets and quartettes. You will sit awe-stricken at the wonderful grand operas as sung by the world's greatest singers. You will be moved by the tender, sweet harmony of quartettes singing those old melodies that you have heard all your life. Take your choice of any kind of entertainment. All on free trial. Then, after the trial, send the outfit back at our expense, if you choose. Or keep it on our great rock-bottom offer. Send the coupon today.

Rock-Bottom Direct Offer—

If, after the free trial, you decide to keep Mr. Edison's superb new instrument, send us only \$1.00. Pay the balance on easiest kind of monthly payments. Think of it—a \$1.00 payment, and a few dollars a month to get this wonderful new style outfit—Mr. Edison's great phonograph with the Diamond Stylus reproducer, all the musical results of the highest price outfits—the same Diamond Amberol Records—yes, the greatest value for \$1 down, balance on easiest monthly terms. Convince yourself—free trial first! No money down, no C. O. D., not one cent to pay unless you choose to keep the instrument. Send the coupon now full particulars.

and after trial!

Your name and address on a postal or in a letter (or just the coupon) is enough. No obligations in asking for the catalog. Get this offer—*while this offer lasts*. Fill out coupon today.

F. K. BABSON, Edison Phonograph Distributors
355 Portage Avenue, Dept. 369, Winnipeg, Manitoba

**F. K. BABSON, Edison
Phonograph Distributors**
355 Portage Ave. Dept. 369, Winnipeg, Man.

Gentlemen: Please send me your
New Edison Catalog and full par-
ticulars of your free trial offer on the
new model Edison Phonograph.

Name

Address

Your Advertisement in The Farm and Ranch Review

will be read by nearly 32,000 of the best class of prosperous purchasers in Western Canada. Men who have the money. And these include Breeders and Importers of Live Stock, Grain Growers, Dairy-men, Poultrymen, and others engaged in mixed Farming. If you have anything to sell advertise where thousands will read your advertisement.

The "Review" goes into 85 per cent. of the English-speaking farm homes in Alberta and Western Saskatchewan. The "Review" carries more Live Stock advertising and more Western Commercial

Advertising, (outside the city of Winnipeg), than any other farm paper—in its field. The "Review" has an excellent "Home Department" which is widely read. It is strongly supported by the two women's organizations in the Province, that is, the Alberta Women's Institutes and the United Farm Women of Alberta, while the women of Western Saskatchewan take a very particular interest in this special section. The "Review" is highly thought of among advertisers of all kinds of products, more particularly those purchased by the women folks on the farm.

NET CIRCULATION Showing Circulation for Alberta and Saskatchewan as per Federal Electoral Districts

SEPTEMBER 6th, 1917.		ALBERTA		SASKATCHEWAN	
Alberta	17453			Prince Albert	633
Saskatchewan	11293	Edmonton	1,294	Battleford	1,904
British Columbia	1044	Victoria	1,281	Saskatoon	773
Manitoba	295	Strathcona	2,744	Humboldt	597
East, British and Foreign	147	Red Deer	3,583	McKenzie	88
Net Total Subscribers	30232	Calgary	1,475	Saltcoats	68
Correspondents, Advertisers, Agencies, Exchanges, etc.	1014	Macleod	2,503	Qu' Appelle	275
Total Circulation	31246	Medicine Hat	4,573	Assiniboia	374
			17,453	Regina	576
				Moose Jaw	6,005
					11,293

**THIS CIRCULATION IS GUARANTEED BY AFFIDAVIT
AND APPLICATION HAS BEEN MADE FOR
MEMBERSHIP IN AUDIT BUREAU
OF CIRCULATIONS**

LIVE STOCK RATES ON APPLICATION
Address Advertising Department

CHANGE IN ADVERTISING RATES

Commencing 1st Jan., 1918, the commercial rate for display advertising will be 16c per agate line.

One inch, per issue	\$ 2.24
Page (one insertion)	115.20
Half Page (one insertion)	57.60
Quarter Page (one insertion)	28.80

CLASSIFIED RATE—3 cents per word per issue flat. Cash with copy.

THE FARM AND RANCH REVIEW, CALGARY, ALBERTA, CANADA

Amethyst, Alta., Feb. 23, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Gentlemen:—
Please do not stop this paper as long as I am in Canada. It is a great help on stock and mixed farming.
(Sgd.) J. M. WOOD.

Telkwa, B.C., March 12, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
Your paper is one that should be taken by every farmer or any person interested in agriculture.
(Sgd.) A. FAIRBAIRN.

Seven Persons, Alta., Oct. 22, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
I am very much pleased with your paper and consider it the best farm paper in Canada.
(Sgd.) A. A. BARKER.

New Dayton, Alta., Jan. 30, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
You edit such a splendid paper I have no objection to paying a bit in advance, so if I have overpaid there is no harm done.
(Sgd.) R. W. RISINGER.

SPECIAL RENEWAL AND XMAS GIFT OFFER

Give him a year's subscription to "The Farm and Ranch Review" for Xmas; it will reach and remind him of your gift not only at Christmas but throughout the coming year. And we will write a letter, timed to reach him Christmas, stating that the "Review" is being sent him for one year by you with your best wishes for a happy Xmas and happier New Year.

We will accept \$1.50 to pay for this new subscription and your own renewal, both for one full year. This, makes a most economical and acceptable gift.

The Farm and Ranch Review, Calgary, Alberta

Wetaskiwin, Alta., July 7, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
I would not like to be without the Farm and Ranch Review as it is a farm paper without an equal.
(Sgd.) C. M. GIBBON.

Armstrong, B.C., Oct. 17, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
Find enclosed \$2.00 for renewal of my subscription. I believe you send it for three years for that amount. Anyway, send me what I am entitled to. I am glad to see that The Farm and Ranch Review is improving so much each year. I think it is the best farm paper in the West.
(Sgd.) J. A. McLEOD.

Craigmyle, Alta., Sept. 23, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
We all feel badly disappointed when it does not come when we expect it, as we find it very interesting. I am proud that Alberta has such an up-to-date, bright, clean farmers' magazine, and I think every Alberta farmer should have it in his home, especially if he has boys and girls that he is trying to interest in the farm.
(Sgd.) MRS. JEAN STEVENSON

Falkland, B.C., May 22, 1917.
The Farm and Ranch Review,
Calgary, Alta.

Dear Sirs:—
My husband tells me he wishes to renew his subscription to your most interesting paper. Whenever we have an opportunity we recommend The Farm and Ranch Review, which contains so much valuable information.
(Sgd.) MRS. ANNIE FRASER.

Shows, Meetings and Organized Agriculture

COMING EVENTS

Alberta Winter Fair, Calgary, Dec. 11-14.
 Bredt-Harrison Combination Sale, Clydesdales and Shorthorns, Calgary, Dec. 11-13.
 Yule & Bowes' third annual draft sale of Shorthorns, Calgary, Dec. 12.
 Clydesdales, A. D. McCormack, Dec. 12.
 Alberta Horse Breeders' Association auction sale of horses, Calgary, Dec. 12.
 Alberta Cattle Breeders' auction sale of females, all beef breeds, Calgary, Dec. 13.
 Hon. Duncan Marshall sale of Shorthorns, Calgary, Dec. 13.
 Combination sale of Clydesdales by Thorburn, Riddle, A. L. Dollar and others, at Calgary, Dec. 13.
 Sale of Kimmel Shorthorns by T. Bertram Ralphs, Calgary, Dec. 13.
 Bow River Horse Ranch, Clydesdale sale, G. E. Goddard, prop., Calgary, Dec. 13.
 Hambly & Sons' sale of Holsteins, Calgary, Dec. 14.
 Sale of Hereford females by John Wilson, Knee Hill Valley, at Calgary, Dec. 14.
 Sale of Holsteins, Bevington-Sutherland, Exhibition Grounds, Edmonton, Dec. 20.
 Saskatchewan Agricultural Societies annual convention, Saskatoon, Jan. 8-11.
 Saskatchewan Provincial Seed Fair and Dairymen's Convention, Saskatoon, Jan. 8-11.
 Short Course in Agriculture, Agricultural College, Saskatoon, Jan. 14-26.
 U. F. A. Annual Convention, in First Baptist Church, Calgary, Jan. 22-25.

ANNUAL MEETING OF THE SASKATCHEWAN LIVE STOCK ASSOCIATIONS

At a joint executive meeting held in Regina on November 16th it was decided to have the annual meetings of the Associations take place in Regina on January 3rd and 4th next. While those present agreed that the College of Agriculture at Saskatoon offered superior facilities for the holding of the meetings, it was generally admitted that, due to conditions arising from the war, such as labor shortage which would make it difficult for farmers to be away from home for any length of time, only business meetings should be held and for this year, at least, demonstrations and lectures dispensed with. These meetings will include the Saskatchewan cattle, horse, sheep, swine and poultry breeders' associations. A programme is now being prepared and free return fares on the standard certificate plan will be arranged for.

ANNUAL MEETING OF WESTERN CANADA LIVE STOCK UNION

The fifth annual meeting of the Western Canada Live Stock Union, held in Regina, November 14th and 15th, with Dr. J. G. Rutherford, C.M.G., of Calgary, in the chair, was largely attended and very representative of the live stock interests of Western Canada. The dominant note of the convention was the real need for increased live stock production, particularly pork. The urgency of this real need was particularly driven home by every speaker who had attended the recent conference called by the Food Controller at Ottawa. Canada must wake up to the seriousness of the meat shortage, particularly fats, as it exists today in the allied nations. This shortage has reached a most acute stage, particularly in France, when the whole country's reserve is at the danger point; so much

so, that should shipments from this continent be delayed for the matter of a few weeks only, it would mean not only suffering amongst the poorer classes, but, we are told, actual starvation. The situation is far more serious than most of us have any idea, and speakers of prominence, with sincerity and authority permeating every word uttered, stated boldly to the convention that it was imperative that every man go back to his locality and make it known in no uncertain manner that **pork must be produced**, at a profit if possible, but if not from a patriotic standpoint. Inside information regarding the meat scarcity is alarming, and it is realized, as the "Review" has pointed out on several occasions, that the pig is the only animal that can multiply quickly enough to save the present situation.

Dr. Rutherford, in speaking of the seriousness of the situation, said: "It is a fact that Canada today is stony broke, that the mother country is also broke and that the U. S. is the only country able to finance itself. This is a world crisis and the West is spending money like drunken sailors, buying U. S. autos and joy-riding on Sundays, etc."

Miss Cora Hind, of the Free Press, gave a short, spirited address emphasizing the most urgent need of greater pork production. She cited several cases where Manitoba farmers were working faithfully to help accomplish this end.

First Things First

It is customary in reporting a convention to relate proceedings in their chronological order, but we purpose deviating from the rule and dealing with questions of most vital interest first.

Our editorial on the shortage of pigs, which appeared in our last issue, was on the press before we attended this convention, otherwise it would have been even stronger. G. H. Hutton, Supt. Experimental Farm, Lacombe, and Vice-Pres. Dominion Swine Breeders' Association, delivered a most excellent address on increased pork production, which appeared in our last issue, and we trust it was read very carefully by everyone interested in the welfare of our allies, as well as our own article entitled the "Greater Hog Production Campaign." Dr. Rutherford, in speaking after

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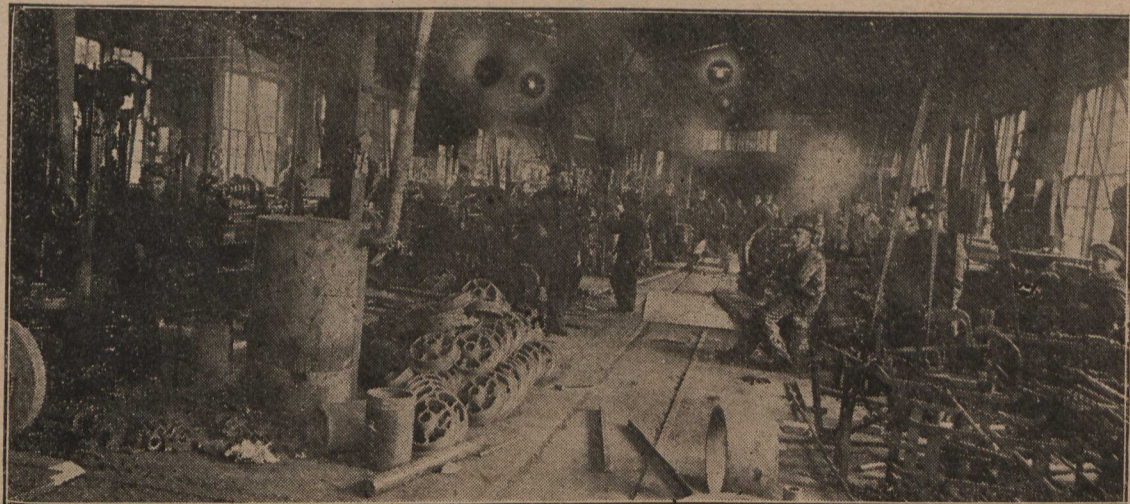
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CALGARY, ALBERTA

Mr. Hutton's address, said: "It is hogs we want, and the fashion of eliminating weight of the bacon hog might well be done away with during war."

J. L. Walters, of Clive, Alta., also endorsed the doctor's views, advocating that all hogs being offered for slaughter should be fed to a much heavier weight.

Mr. J. D. McGregor, of Brandon, representative of Food Controller Hanna, stated that the policy on his farms now is to feed to 250 lbs. He also told the meeting of recommendations made to the government to save slaughter of ewe lambs in Ontario which did not materialize, of other recommendations to assist the cattle industry through saving female cattle, and particularly calves, from slaughter, but so far no action has been taken. After going to Ottawa and seeing Mr. Hanna and getting facts concerning the British and U. S. food controllers he realized that the meat situation is most acute. It is understood that by spring the U. S. will have over 1,800,000 men fighting or in training and if that country takes care of her own men and furnishes food supplies for France and Italy, that Canada will require to take care of the food supplies of Great Britain and should it happen that we have a crop shortage next year, along with the excessive slaughter of pigs which is taking place, it may mean that Great Britain may lose the war. Fat he emphasized is the main essential, and this can best be provided in the form of bacon.

The following statement was given to the meeting by Mr. McGregor:

The Situation Today

1. Decreased Production of Food.—This is due to the diversion of tens of millions of men from the farms into the armies and to the manufacture of war supplies other than food. There are today close to 40,000,000 men in the land forces of the warring nations and it has been estimated that they consume more than \$15,000,000

worth of food every 24 hours. They produce none. In addition, there are the men in the navies and millions of men and women who are engaged in the manufacture of war supplies. All of them are consumers of food.

2. Increased Consumption of Food.—Millions of men and women have been turned from sedentary occupa-

Food Are Inaccessible.—The accumulated food stocks in Russia are not accessible to the other allied nations. Scarcity of available shipping and the danger of ocean transportation make it impossible to carry any large amount of food to Europe from Australia or India. As a result the allies have become increasingly depend-



Sutherland Abbekirk Holly. Junior Yearling Holstein Heifer. Junior Champion at Edmonton Summer Fair, 1917. Owned and exhibited by the Duke of Sutherland, Hay Creek, Alberta. This heifer will be included in the Bevington-Sutherland Combination Sale Dec. 20th.

tions into those of strenuous physical labor. As a result they must consume more food. The soldiers require more food than the same number of men would require in civilian occupations.

3. Destruction of Food by Reason of War Activities.—Crops and livestock have been destroyed by retreating armies wherever possible. Many food shipments have been torpedoed by the enemy.

4. Large Accumulated Stocks of

ent upon North America as the source of their essential food supplies.

Foods Most Needed by the Allies

So far as Canada is concerned the call is for wheat, beef and bacon. The latter is a trade name which means more than bacon as it is known to the housewife. The "bacon" is sent overseas in the form of wiltshire sides, which includes the ham. The allies also need increasing supplies of animal and vegetable fats and of sugar.

The Wheat Situation

The pre-war annual consumption of wheat in the United Kingdom, France, Italy and Belgium was not far short of 1,000,000,000 bushels. This year the crops were poor and were harvested in bad weather, which made the situation worse. The home production of the allied countries will not exceed 400,000,000 bushels, according to the best estimates available, as compared to a three-year pre-war average of nearly 600,000,000 bushels. The estimated exportable surplus from North America, on the basis of normal consumption, is only 200,000,000 bushels, leaving a deficiency of 400,000,000, since no large amount can be imported from more distant sources of supply. Canada and the United States are asked to reduce their consumption of wheat by at least 150,000,000, and of this amount Canada is asked to save not less than 12,000,000 bushels of the 50,000,000 bushels normally consumed here. The allied nations have already taken steps to conserve wheat flour by using the largest possible percentage of the wheat in milling and by requiring that other cereals be mixed with the wheat flour to make the war bread which is now in universal use in Europe.

2. The Meat Situation.—Meat is becoming scarcer all over the world. The allies have been importing less meat this year than last because American and South American herds are being rapidly depleted. Since the war there has been a total net decrease in Europe of 28,080,000 cattle, 54,500,000 sheep, and 32,425,000 hogs. These figures include the decrease in all the countries of Europe. For the Western Allies alone the decrease has been 8,420,000 cattle, 17,500,000 sheep, and 7,100,000 hogs—a decrease of 33,020,000 head of food animals for the Allied nations alone and a total net decrease in Europe of more than 115,000,000 food animals.

Because of the requirements of grain for human food, the nations at war have been forced to divert

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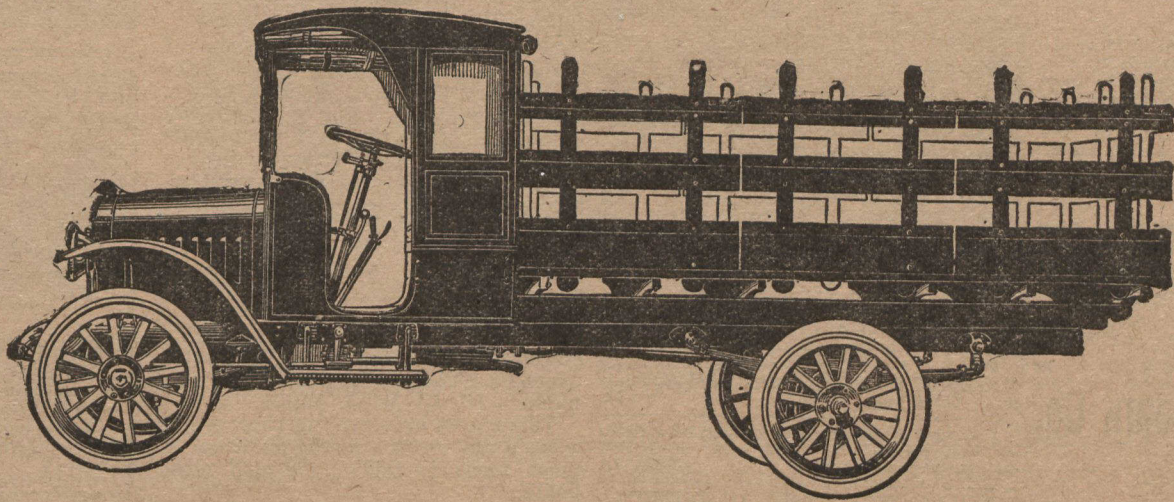
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Seven 18-Mile Trips to Town by Motor Truck in One Day

That is what Mr. Walter Faber did with his Maxwell one-ton truck during the last season.

Mr. Faber is a successful farmer living nine miles out of Wayne, Nebraska.

He believes in applying business methods—efficiency methods—to agriculture.

So last spring he bought a Maxwell one-ton truck.

In that truck he hauled to market EVERYTHING his farm produced. Said Mr. Faber:

“I made seven trips into Wayne and back each day with my Maxwell truck—just five more than I could possibly have made with horses.”

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Faber were corn, oats, wheat, hay, potatoes, etc.

He hauled 10,000 bushels of shelled corn—55 bushels, that is, 3080 pounds, to the load.

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Now most of his neighbors are planning to buy Maxwell trucks.

What are you going to do? Continue using slow, expensive horses? Or buy a low-priced, economical and swift Maxwell Truck?

Your nearest Maxwell dealer has the trucks. See him.

One-ton truck chassis, \$1415; Chassis with cab and windshield, \$1460; Chassis with box body, \$1475; Box body with windshield, \$1530; Express canopy body, \$1560; Chassis with stake gate body, \$1540. All prices f. o. b. factory

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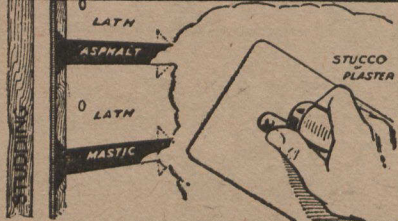
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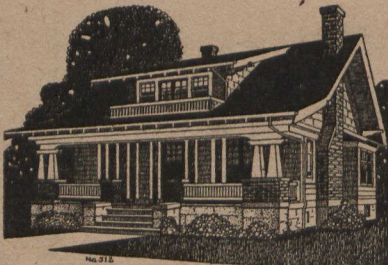
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Get in touch with us and get plans and specifications for a home that will give you every comfort and satisfaction.

Have your home planned and built by men of experience.

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In this Department may be advertised anything you want to Buy, Sell or Exchange at the extremely low rate of THREE CENTS A WORD for each insertion. Cash must accompany order. This class of advertising is particularly useful for Small Stockmen, and Poultrymen, and for selling Grain.

FARM LANDS FOR SALE OR RENT

WANTED—Good Improved Ranch or Farm in Alberta from half section up to two sections considered. Write fullest particulars and lowest price. George A. Pearson, Union Bank, Victoria, B.C. 5-12-17A

LIVE STOCK

FOR SALE—Barred Rock Cockerels. All from prize-winning stock, \$4 each, two for \$7. J. Horner, Macleod, Alta.

REG. DUROC JERSEY HOGS, for sale. From Imported stock both sex. J. A. Gardner, Vulcan, Alta. 20-1-18A

SUFFOLK RAM—A shearling, big and of grand quality and a prize-winner at all large Western Fairs, for sale. Lew Hutchinson, Duhamel, Alta.

REGISTERED BERKSHIRES—February sows, bred, \$35.00; March boars, \$30; June Sows, \$18; July pigs, both sexes, \$15; Stock boar, 17 mos., \$35. Geo. D. Leavitt, Stauffer, Alta. 5-12-17A

SHEEP—Good breeding ewes for sale, one to four years old, consisting of Shropshire, Lincoln, Oxford and Merino grades. Phone, write or call, S. Downie & Sons, Carstairs, Alta. t.f.

BOARS FOR SALE—Registered Duroc Jerseys, the money makers, from our prize winning herd; Have new blood for breeders, bred sows for spring farrow. Write for particulars. J. W. Bailey & Son., Wetaskiwin, Alberta. 20-12-17A

FOR SALE—"Duncan Kenmore" registered Clydesdale colt, sired by Alberta Pete [8828] and his dam is the fine brood mare Rosie Brooks of Largiebeg [25754] (27766) Imported, shown on the front page of Farm and Ranch Review's issue of September 5th last. Apply Mrs. Bruce J. Hodgson, Lundbreck, Alta. 12-5-17A

MISCELLANEOUS

FALL RYE—Write for circular. Harris McFayden Company, Farm Seed Specialists, Winnipeg. t.f.

I WANT to hear from owner of a farm or unimproved land for sale. Mrs. W. Booth, Pulaski, Iowa. 20-12-17A

WOULD YOU MARRY IF SUITED?—Best Matrimonial paper published. Free for stamp. The Correspondent, Toledo, Ohio. 20-2-18A

MONEY TO LOAN—On farms in Alberta and Saskatchewan. No bonus charged. Interest 8%. J. J. Young, 708 Herald Building, Calgary. t.f.

PARTIES NEEDING TIMOTHY HAY can be supplied promptly with the very best at the lowest possible price. Also prairie hay. Apply T. Rawlinson, Innisfail. t.f.

FENCE POSTS—Split Cedar, Round Tamarac and Round Willow Fence Posts. Write for carload prices delivered at your station. Enterprise Lumber Co., Edmonton, Alberta. t.f.

RANCH FOR SALE—23 miles South of Medicine Hat, 800 fenced, good natural shelter and water. Very suitable for mixed farming. Price \$10 per acre. Terms. Address, Robt. Marsden, Excel, Alta. 5-12-17

"HIDES ARE HIGH"—We pay highest market prices for green and dry beef hides, calfskins, sheepskins, wool, horsehides, horsehair. Write us for price list and shipping tags. J. E. Love, 403 4th St. E., Calgary. t.f.

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WANTED—Three salesmen capable of handling \$1,500.00 to \$2,300.00 selling strictly high grade seeds direct to farmers. Good opening for reliable farmer or man with knowledge of farming and not afraid of hard work. Give full particulars in first letter. All correspondence confidential. Address Box 126 Farm and Ranch Review.

TO PROSPECTIVE HOME SEEKERS ON THE PACIFIC COAST, Victoria, B. C. 44 acres, inside 2 mile circle, fronting on main road, all improved, including 7 room modern house on the property with orchard and barns, perfect situation and on high ground. Sold for \$40,000, 4 years ago. Will now sacrifice for \$9,500, so as to settle up an estate. Positively the best snap on the coast for a home or speculation. Apply Owners, A. H., 417 Menzies Street, Victoria, B.C. 5-12-17

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grain from productive fodder and decrease their herds to supply the meat needed. They are now more than ever dependent upon North America for meat supplies. The market is practically unlimited as compared with the greatest possible production of this country within the next few years. Moreover, the situation is such as to ensure high prices which must continue for a very considerable period after the war.

How Canada Can Help

1. By the greatest possible production.
2. By conserving wheat, beef and bacon and shifting consumption to other foods which are not so urgently needed for export.
3. By eliminating waste wherever possible.

Every food animal which can be produced in Canada is needed and the farmers have upon them a tremendous responsibility to do their utmost to ensure that the Allied armies shall not lack essential food supplies.

In discussing the seriousness of the food shortage in France the latest information was asked for and Mr. McGregor wired Ottawa and received the following reply:

"Figures from minister for general revictualing of France show 1917 wheat crop of France 39,900,000 cwts. as against 1913 crop of 87,800,000 cwts. and 1916 crop of 58,410,000 cwts. The 1917 production in France of foodstuffs including all cereals, potatoes and beet root only 222,000,000 cwts. against 358,000,000 cwts. in 1913. With utmost economy France will require to import 40,000,000 cwts. of cereals within the next year. These figures emphasize gravity of situation and necessity of Canadians reducing consumption of foods vitally needed overseas. These figures may be made public.—(Sgd.) W. J. Hanna."

This shows an alarming shortage of cereals and roots and the shortage of meat foods is said to be still more acute.

Conscription

The next most important item discussed was the conscription of bona fide farm labor which provoked a good deal of discussion, terminating in the following resolution, which was carried unanimously:

"Resolved that in view of the vital importance to the Empire of increasing and maintaining at the highest possible level the food production capabilities of the Dominion, the Western Canada Livestock Union desires to respectfully impress upon the Dominion Government the imperative necessity of instructing military registrars and exemption tribunals to exercise every possible precaution in order to avoid the drafting of farmers' sons, young farmers, and bona fide experienced farm laborers, whether applying for exemption or not, whose removal would seriously interfere with the conduct of agricultural operations.

In this connection it is suggested that steps should be taken to secure the utilization in agricultural work by conscription or otherwise to a far greater extent than hitherto of the alien labor, now largely unavailable and often unsatisfactory;

And that a copy of this resolution be transmitted to the Government at Ottawa at once."

Our readers will have noticed that we deal with several aspects of this most important question in an editorial in this issue.

(Continued in Next Issue)

FOR SALE—First-class dwelling house in good location, containing eight rooms, with balcony, fire place, laundry, hen-house, etc. Heated by gas. Lot 50 feet x 135 feet, fenced. Easy access from Red and White car line, immediate possession. \$5,500 cash or \$6,000 on terms. Apply Mrs. Christie, 1512 8th Ave. N.W. Calgary. Phone 2807.

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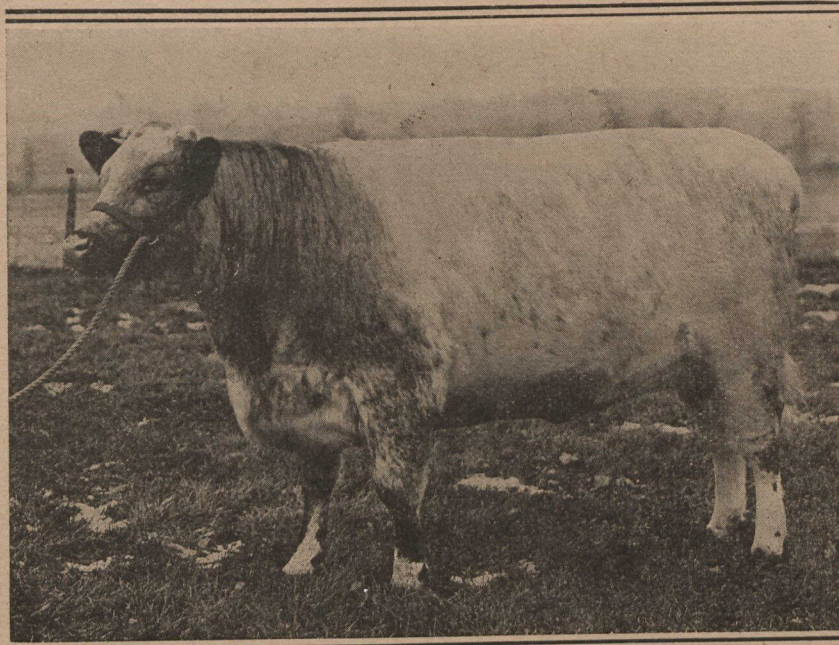
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A Number of Choice
 Imported Stock
 of
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This Offering Carries
 Some of the Choicest
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Wednesday, February 6th, 1918. Watch for further announcement
 Wm. A. DRYDEN, Brooklin, Ont. JOHN MILLER, Jr., Ashburn, Ont.

SHORTHORN CATTLE

HAVE STOOD THE TEST OF TIME.

For more than one hundred years, Shorthorn Cattle have played an important part in placing North American Agriculture upon a sound foundation, and wherever they have gone, prosperity has followed.

A Farmer's Cow

Many farmers are not in a position to engage in dairying as a specialty, but they want a cow which will give a fair amount of milk, and which will produce steers suitable for making prime beef.

The Shorthorn Cow seems specially designed by nature to fill this need, and she has been recognized as pre-eminently "a farmer's cow," from the earliest history of the breed.

Size with Quality

Wherever it goes, the Shorthorn carries with it the reputation of maintaining its size, even under adverse conditions.

The supreme test of any beef breed is its ability not only to improve the quality, but to increase the size of the progeny of all kinds of cows with which its bulls may be mated.

The pony-built steer is not the most profitable, but the Shorthorn Bull will get steers with both size and quality.

Adaptability

In far off Australia and the Argentine, on the hot Southern range and on the frozen plains of the North, on the open prairie and in the farm stable, the Shorthorn seems equally at home.

Its vigorous constitution enables it to adapt itself readily to widely varied conditions.

Follow the Tricolor

To those already enlisted under the "red, white and roan" banner, high prices may be a temptation to sell out. Let such men remember the great world shortage of cattle, and save enough good seed to enable them to reap the benefits of high prices for Shorthorns which are bound to prevail for years to come.

Those who have not yet selected a breed are respectfully urged to investigate the many merits of the Shorthorn before making a decision.

DOMINION SHORTHORN BREEDERS' ASSOCIATION

W. A. DRYDEN, Brooklin, Ont., President.

H. M. PETTIT, Freeman, Ont., Secretary.

If Flour Was \$6.75 Would You Pay \$11.00?

If you could buy as good or better flour direct from the mill and save the middlemen's profit, and other heavy expenses, would you buy direct and pocket the difference?

That's just the proposition we have to make you. Here we offer you this wonderful phonograph direct from the factory, of which \$42.50 of the purchase price you are putting in your own pockets in place of the agents.

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Was \$110.00—NOW \$67.50

By discontinuing our expensive selling force of salesmen and agents, by cutting down our big overhead expenses, high rentals in costly stores, etc., and by eliminating long credit plans, we are enabled to reduce the price of the Veolian from \$110.00 to \$67.50.

In future, you will be our agent or salesman. You know the original price of the Veolian, you know that formerly hundreds have been sold at \$110.00—well, this is the identical machine—it embodies every improvement and superior features contained in any phonograph—yes, and also a great many patented exclusive features not to be had in other machines. Read the detailed specifications and guarantee. You will be interested in reading all about the Veolian.

How to Order

Send us by Return Mail only
\$ 10.00

State the finish you prefer and we will send to your nearest railroad station all express charges paid, this beautiful VEOLIAN PHONOGRAPH exactly as shown in this picture and exactly as described, the balance to be paid upon receipt of the machine. After ten days trial if you do not find it exactly as represented, return to us and we will cheerfully refund you the full purchase price. Give it a trial in your home—play your favorite selections all Xmas day, and listen to the accurate reproduction of your favorite pieces—the symphony orchestra, the gay Scotch laddies, comic songs, the patriotic selections of Sousa, etc., etc.

FREE with each machine 12 selections (6 records), one package of needles and one jewel point for playing Edison records.

Write or wire at our expense for your Veolian today. You won't enjoy Xmas without it.

We refer you to
THE BANK OF HAMILTON, WINNIPEG.

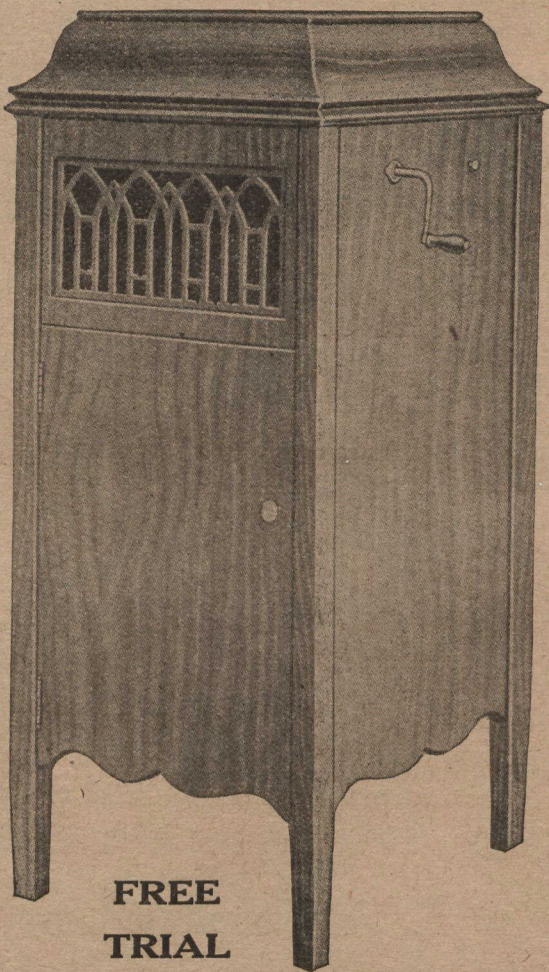
THE VEOLIAN

SIZE:

High 42 inches. Wide 18 inches.

Deep 20½ inches.

Made of genuine quarter-cut oak, fumed finished or selected mahogany or walnut—all four sides are finished alike, a feature not to be found in many instruments up to \$200.00. Note the beauty of design, its silk lined grill front, its large record compartment, every detail perfect. An automatic cover support, tone control and all wood sound chamber. The universal tone arm, enables you to play all makes of disc records, Victor, Columbia, Edison, Pathe, etc, without any extra attachments. Jewel point, for playing Edison records is supplied free with each instrument. A powerful but simple double spring, silent running worm geared constant speed motor of exceptional quality construction ensures a lifetime of wear.



**FREE
TRIAL**

AND GUARANTEE

Order the VEOLIAN and play it in your home, the only place to get a real test. Our Guarantee is as strong as it is short—Satisfaction or money refunded—the risk is ours. We guarantee the VEOLIAN to be constructed of the finest quarter cut oak or real rich mahogany or walnut—to be equal in appearance, musical quality, richness of tone and volume of sound, to any instrument selling to-day up to \$150.00.

We refer you to
THE BANK OF HAMILTON, WINNIPEG

THE VEOLIAN PHONOGRAPH COMPANY
WINNIPEG BRANTFORD TORONTO

Address All Correspondence to our Western Office: PARIS BUILDING, WINNIPEG

Farm Help Will Not Be Drafted Food Production Vital

"I will see to it that if any farmer's son, honestly working on a farm for the production of food, is drafted, he will be discharged from The Canadian Expeditionary Forces, if he goes back to the farm."

—Gen. Mewburn, Minister of Militia,
Dundas, Nov. 24th, 1917.

"In the general policy of the law and instructions issued to the tribunals, the farming industry is certainly recognized as one of the utmost importance to the national interest and therefore it is the duty of the tribunals, in the proper execution of the responsible duty with which they are charged to see that effect is given to farmers' claims in proper cases."—E. L. Newcombe, President Military

Service Council, Ottawa, Nov. 26th, 1917.

ENTITLED TO EXEMPTION—"Men who are habitually and effectively engaged in the growth of agricultural products and whose labor cannot be diverted from the occupation without substantially diminishing the necessary supply are, in the view of the Military Service Council to be entitled to exemption, so long as they continue to be usefully employed in farming. It is assumed that the tribunals will realize that the farming industry should compete successfully with military service in those cases where it is established that the withdrawal from the former occupation of men qualified for the latter service, will materially diminish the output or production necessary for the maintenance or efficiency of the expeditionary force or the support of the people at home."—Military Service Council, Ottawa, Nov. 26th, 1917.

The country relies on the farmer, not only for food, but for striking a sane balance on political matters. Free from the turmoil of city life, he has a sane, clear view of large affairs.

In the present crisis he recognizes clearly that the real political leaders of both parties have cast aside party allegiance and have joined together for the winning of the war. This is the one great issue and to see it accomplished requires the whole-hearted support of every patriotic Canadian.

Support Union Government

Quebec, which has not done its duty in this war to its mother country, France, to the protector of its liberties, Great Britain, or to its native land, is solidly lined up against Union Government with the determination, rabid in its intensity, to bend the rest of Canada to its will. By appealing to the slacker it hopes for Victory.

Unionist Party Publicity Committee

GREAT COMBINATION SALE OF HIGH CLASS HOLSTEINS

BREEDERS' and DAIRYMEN'S OPPORTUNITY

70 HEAD PURE BREDS 20 HEAD GRADES



From right to left. "Princess Lizzie", "Duchess of Springhill", "Katherine of Newark", "Princess Maud Akkrum", and "Empress of Seaview". These females form part of the Bevington herd, and will be included in this sale.

AT THE

Exhibition Grounds, Edmonton, on Thurs., 20th Dec. 1917

**GEORGE BEVINGTON, WINTERBURN, ALTA., WILL SELL
7 HEAD OF CHOICE BULLS AND SOME 35 HEAD OF FEMALES**

The bulls include the five-year-old "Count Pontiac Artis" by "King Pontiac Artis Canada," A. C. Hardy's stock bull. Also "Sylvia Champion" and "Frank Faforit De Kol," well known prize winners at the Western Summer Fairs this year. Also four sons of "Sir Belle Pietertje," the grand champion at Regina, 1917. Among the females are a large number of prize winners. The balance are young cows of high producing families.

There are also 20 head of high class grades.

**THE DUKE OF SUTHERLAND, HAY CREEK, ALTA.
WILL SELL 30 HEAD OF PUREBREDS**

Including 13 animals which won high honors at Edmonton Summer Show this year including two reserve Champions.

In this high-class offering are cattle that will make you money. There will be no uncertainty. They are bound to produce and make good. They are all well-bred animals, and a large number of them hold records of merit.

CATALOGUES WILL BE READY SHORTLY. SEND FOR ONE.

Look up Reading Notice in Another Part of This Issue.

GEO. BEVINGTON

WINTERBURN, ALTA.

R. B. SANGSTER

Manager of the Duke of Sutherland's Estate

HAY CREEK, ALTA.

J. W. DURNO, Auctioneer, CALGARY, ALBERTA

FARM LANDS

Y-207B.—1120 Acres 16 miles North of Youngstown. 1080 acres tillable land. Balance good pasture land. 500 acres broken. 125 acres summer fallow, 75 acres fall plowed. (Level land, chocolate loam, clay subsoil). 25 acres in tame hay. 5 room house, barn 32 x 44, drilled well. Price \$18.50 per acre. \$5,000 cash, balance arranged to suit purchaser.

N.E. 262—640 Acres 6 miles North of Cadogan. One mile from school. Slightly rolling. All tillable, 400 acres broken. 133 acres summer fallow, and the same amount of summer fallow stubble. Small buildings. Stabling for 12 head. Good well. Price \$32.00 per acre. \$5,000 cash. Balance 6 per cent. contract.

LASHER & GILLAN LIMITED

CALGARY—THREE HILLS—YOUNGSTOWN

HEAD OFFICE: 809 CENTRE STREET

CALGARY

PHONE M2996

Markets

Thompson, Sons. & Co., Winnipeg, report as follows:

WHEAT

An active demand for wheat has obtained in Winnipeg market, the government buyers taking all the offerings they could get at fixed prices. The milling trade have also been free buyers, as everyone wants to get all the wheat they can across the lakes before navigation closes, which will probably be within the next fifteen days. Receipts from the west are on a liberal scale, and the average grading continues high, about four-fifths of the cars inspecting No. 3 Northern and above, 50 per cent of the whole being No. 1 Northern. There has been almost no plows have been kept going, turning over the prairie provinces, in which the another full week of fine, mild weather the stubble fields to be ready for spring sowing.

OATS

The oats market has been very strong making more or less advance in prices every day. While the oats situation in Canada is a strong one, owing to the lighter western crop, and the fact that, by the high prices of other grains, oats is the only feed grain available, it has to be said that the advance in prices in the last three weeks has been principally caused by speculative buying.

BARLEY

Barley is in good demand, with prices 1 1/2 to 3c higher.

Rye, No. 2 C.W. Rye, 171c.

FLAX

The flax market has been quieter, and cash flax and November delivery have declined 8c, while May delivery has advanced 6c.

All prices quoted are based on delivery in store Port William and Port William. Today's prices 3rd Dec. are as follows:

Calgary Winnipeg	
No. 1 nor.	221
No. 2 nor.	218
No. 3 nor.	215
No. 4	208
No. 5	196
No. 6	187

Feed		171
Barley		
3 barley	121	123
4 barley	116	118
Oats		
2 Can. west	79 1/2	81 1/2
3 Can. west	76 1/2	81 1/2
Ex. 1 feed	76 1/2	78 1/2
No. 1 feed	71 1/2	73 1/2
No. 2 feed	69 1/2	70 1/2
Flax		
No. 1 N.W.		301 1/2
No. 2 N.W.		295

LIVE STOCK

Steers—		
Extra Choice Export, 1400 lbs and up, \$9.75 to		10.00
Good heavy, \$9.50 to		9.65
Extra Butcher, 1100 lbs. up, \$8.75 to		9.25
Common Butcher, 1100 lbs. up, \$8.00 to		8.50
Choice Stockers, 900-1000 lbs. \$7.00 to		7.50
Bulls—		
Common, \$5.00 to		6.00
Calves—		
Light, 180 to 200 lbs, \$7.50 to		8.00
Heifers—		
Choice Heavy, \$7.25 to		7.75
Cows—		
Choice Heavy, \$7.00 to		7.50
Common Butcher, \$5.75 to		6.25
Thin Canners, \$3.50 to		3.75
Oxen—		
Choice, \$7.50 to		8.50
Common, \$4.25 to		5.50
Sheep and Lambs—		
Wethers		\$13.00
Ewes, \$11.00 to		11.50
Lambs		13.00
Hogs, selects		15.00

The hog trade all over the country during the past few days has been almost paralyzed, and owing to the fact that there were over 3000 hogs in the Calgary yards during the heavy weather, the loss to the producer must have been considerable. Prices went back fully a dollar, but by the 4th the yards were empty.

WINNIPEG

Receipts at the Union Stockyards were 2,500 cattle, 1,803 hogs. Cattle trading steady; prices in spots are a shade easier on butcher stuff. Bulls and oxen in good demand at steady prices. Stockers and feeders steady, also veal calves. Hog market weak, prices declined 50c per cwt. for selects; very few buyers on the market.

SEEDS

WE WILL BUY—Brome, Western Rye and Timothy. We have inquiries for car lots of seed oats and six-rowed barley. Send samples. Our seed wheat, oats, barley and new five-grained oats are splendid. Send for 1918 catalog, ready end of December.

HARRIS MCFAYDEN SEED COMPANY LTD.
FARM SEED SPECIALISTS WINNIPEG

**Got Gophers?
Kill-Em-Quick**

Buy the gophers a Christmas present — **KILL-EM-QUICK** — Plenty of it! Do your Christmas buying early.

A FARMERS' MARKET

THE CALGARY PUBLIC MARKET being municipally owned, offers to the farmer of Alberta a market for their butter, eggs, poultry (dressed or live), fresh killed meats, vegetables hay and oats. The farmer living at a distance can ship his produce direct to the municipal market and have same sold through a bonded official of the city.

A COMMISSION IS ASSESSED WHEN WHOLESALD, 5% WHEN RETAILED, 10% WITH PROMPT RETURNS.

Farmers driving into the city can secure free accommodation for their horses and vehicles, the market fee for the day being 25c only.

For further particulars write or phone

SUPERINTENDENT CITY PUBLIC MARKET
Calgary - Alberta

-- GOING FAST -- Only a few Sections left in the Airdrie and Crossfield Districts

Few people realize that really desirable land for grazing and mixed farming purposes is almost unobtainable at the present time within a reasonable driving distance of Calgary at a price which will bring good returns on the investment.

A number of years ago we bought from the Canadian Pacific Railway Company several large blocks of land in the Calgary district and we became the largest private land owners in Alberta. Most of this land is disposed of and now occupied by happy and prosperous farmers, but we have kept some of the choice grazing and mixed farming lands until the present time and are going to sell the balance of it within the next few months. These are some of the offerings, come quick and make your selection if you want any of this land.

Sections 1 and 2, Township 28, Range 28, near Crossfield, 50% good high farming land, balance first class meadow and grazing land; well watered with a good spring open the year around, only \$17.00 per acre.

Sections 5, 6 and 9, in Township 28 and Range 28 and Section 30 in Township 27 and Range 28, only 4 miles from loading platform on the Canadian Pacific Railway between Airdrie and Crossfield. A.1 for mixed farming and stock raising \$16.00 per acre for all or any portion. First class for anyone wanting two or three sections in a solid block.

S. 1 Section 1, Township 27, and Range 29 only three miles East of Airdrie. This land is rather low but well watered and exceptionally desirable for grazing and stock raising \$14.00 per acre.

N. 1/2 Section 6 and the N.E. 1/4 of Section 5 and the S.W. 1/4 of 9, all in Township 27 and Range 28 and from three to six miles East of Airdrie all or any portion at \$15.00 per acre.

Also several choice pieces in Township 26 and Range 29 and less than 20 miles from Calgary at from \$15.00 to \$17.00 per acre.

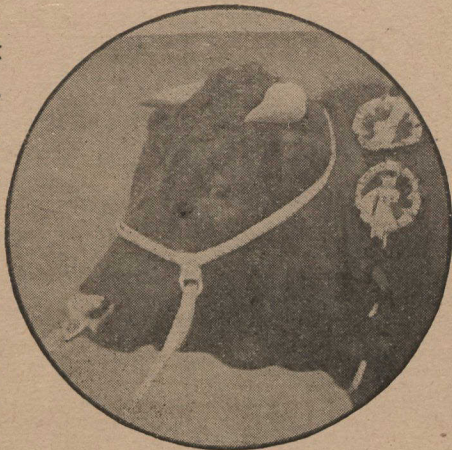
We own all of the above lands and can deliver perfect title to same at time of purchase.

TERMS, \$5.00 PER ACRE CASH, BALANCE 6 PER CENT.
APPLY:

CALGARY COLONIZATION CO. LTD.
19 ROYAL BANK BUILDING CALGARY, ALTA.
PHONE M3882

CONSIGN YOUR
CATTLE, SHEEP and HOGS
 TO
WADE & JACK
 LIVESTOCK COMMISSION and FORWARDING AGENTS
Alberta Stock Yards, Calgary

We have the biggest connection with Eastern Packers of any firm in the Province. We are members of the Calgary Livestock Exchange, and are BONDED for prompt and faithful settlements.



You can get us day and night.

Write, wire or phone us before shipping elsewhere.

Phones: E5858 - M3438 - W4026

SALE OF CLYDESDALES

20 HEAD MARES AND FILLIES 20



SOME OF MY MARES AT BANKVIEW STOCK FARM.

At Exhibition Grounds, Victoria Park, Calgary,
 On WEDNESDAY, DECEMBER 12, 1917

This lot of good females is mostly made up of two and three-year-olds. Many of them sired by "Black Ivory," a well-known prize-winner at Eastern Fairs a few years ago. They are all of the best blood and breeding, and the majority will make ton mares.

To those horsemen in search of high-class breeding stock, this is an exceptional opportunity.

Catalogues will be ready shortly. Write for one, and for any further particulars you may wish, to

THORBURN & RIDDLE
 DE WINTON - - - ALBERTA

Winnipeg Grain Sample Market

The Dominion Government having established a sample market at Winnipeg, we are prepared to receive and dispose of farmers' carlots on sample or by grade, to the highest possible advantage for our customers. We do not buy or sell the farmers' grain on our own account, but act solely as the farmers' agents strictly on commission, and we are in close personal touch with every buyer on this market.

When the farmer desires his carlot to be sold on sample he must write across the face of his Railway Shipping Bill the words: "Sample to be drawn for sample trading," and bill cars to Fort William and Port Arthur as usual. Also on the Shipping Bill he must write the words: "Notify Thompson & Co., Winnipeg."

When these directions are strictly followed the Grain Inspector draws the sample for trading and it is delivered to us at once. Be sure to forward Shipping Bill to us by first mail.

On all cars consigned to us we make liberal advances when desired; interest at 7 per cent. Draft may be made on us through any bank with Shipping Bill attached, or cash can be remitted from Winnipeg. Please write to us for further particulars and information.

THOMPSON, SONS AND COMPANY
 GRAIN COMMISSION MERCHANTS
 700-703 P. GRAIN EXCHANGE - WINNIPEG, MAN.

FEED OATS WANTED

FOR THE NORTH SHORE and EASTERN DEMAND

Car lots purchased on sample or grade. Car lots sold on commission, sample and grade. DROP A CARD ASKING FOR OUR LETTER ON OATS. If you have Oats to sell we deal direct and can show you a profit.

Bole Grain Company
 FORT WILLIAM, ONT.

McBEAN BROS.

The price is fixed on 1, 2 and 3 Northern wheat. Lower grades can still be sold on sample, and farmers should use commission firms for this purpose. Do not sell either high or low grade wheat at track prices, but sell only after car is unloaded in terminal elevator.

Oats should be selling around 80c per bush. Conditions strongly favor it. In fact, they could easily advance to a dollar long before next crop is harvested. Owing to wheat shortage, oats must be used for human food, and \$2.21 wheat makes oats worth over 90c for grinding into flour. Hold your oats.

If on C.P.R. or G.T.P. bill cars to Fort William; if C.N.R., to Port Arthur. Mark shipping bills "Notify McBean Bros., Winnipeg, Man.," so we can check up grading when car arrives in Winnipeg. If you need money, draw on us through any Bank with shipping bill attached to draft for fair advance.

Write us just before selling or shipping your grain as conditions might change on short notice. Again we urge, don't sell your oats at these prices.

McBEAN BROS.

WINNIPEG, SEPT. 19.

GRAIN EXCHANGE.

J. K. CUMMINGS, Pres. ARTHUR PIERSON, Treas.
THE CUMMINGS GRAIN CO. LTD.
 Commission Merchants

HEAD OFFICE: 409-410 PHONE M 2013, NIGHT M 6586
 GRAIN EXCHANGE - - - CALGARY, ALBERTA

Cash Grain Handled in all Markets
 Send us Samples of your Grain for Official Grade and Value
 LIBERAL ADVANCES QUICK RETURNS

TIMOTHY SEED

We are Buyers in Large and Small Lots. Highest Prices.
 Write us, stating quantity for sale.

Also BROME GRASS, SIX ROWED
 BARLEY, SEED OATS

STEELE BRIGGS SEED CO. LIMITED
 WINNIPEG - - - MANITOBA

"Waterloo"

All Sizes



EQUIPPED WITH "WATERLOO" WIND STACKER AND "WATERLOO" SELF-FEEDER

THE NAME "WATERLOO CHAMPION"

Is an absolute assurance of dependability and long service. Grain, time and money savers. Deliver the grain in marketable shape in the sack—not the stack. Handle any kind of grain perfectly, regardless of condition. Quiet in operation, easily adjusted, well balanced, free from vibration. Every part guaranteed to give our customers perfect satisfaction. SEND FOR FREE CATALOG.

The Waterloo Manufacturing Co., Ltd

Western Head Office: **SASKATOON, REGINA**
 Portage La Prairie, Man. **SASK.**

RURAL ECONOMICS

DOMINION REVENUE INCREASING

The revenue of the Dominion for the first six months of the fiscal year ended September 30 was \$127,477,904, as compared with \$103,589,680 during the same period last year, an increase of nearly \$24,000,000. Ordinary expenditure was slightly in excess of \$50,000,000, a decrease of almost half a million as compared with last year. Capital expenditure, including war account, totalled \$95,144,093, as compared with \$116,057,905 for the six months' period in 1916. The decrease is due to the fact that war expenditures in Canada from April to September last year amounted to \$104,538,895, while this year's expenditure in Canada was \$87,772,857. The decrease is due to the heavy movement of troops overseas. The debt of the Dominion now stands at \$901,009,501, an increase of \$36,865,910 for the month.

BANK OF MONTREAL ASSETS IN EXCESS OF \$400,000,000

The Bank of Montreal, following its 100th anniversary, is out with its strongest statement and establishes new high records in all principal accounts. Hand in hand with tremendous gains in assets—making it possible for the Bank to report total assets in excess of four hundred million dollars (the first time such a figure has been reached in Canadian banking) it has developed a position of still greater strength as represented by liquid assets equivalent to over 75% of liabilities to public. At the same time the various accounts reflect the large and important undertakings, in connection with the war, which the Bank is carrying out on behalf of the Dominion and British Governments. It has also been possible to meet the larger requirements of customers as reflected by a substantial gain in current loans.

Steady Expansion of Deposits

On the other hand it is evident that the Bank has benefited from the maintenance of such a strong position, as the savings accounts of the people of the country continue to pile up steadily and now amount to over \$246,000,000, an increase of almost \$36,000,000 for the year, or at the rate of close to \$3,000,000 a month.

It is doubtful whether Canadian banks have ever had such complicated problems to work out as they have had during the period of the war. As the bankers of the Government, the Bank of Montreal has evidently assumed its full share in providing for the country's needs, as indicated by an increase of twenty-eight million dollars in the value of Dominion and Provincial Government securities; an increase of seven million in the Deposit in Central Gold Reserves; balance due to the Dominion Government of \$13,638,962, the latter account appearing for the first time in the Bank's statement.

The Bank has perhaps rendered a still greater service to the country by keeping itself in such shape as to create complete confidence in Canada's financial position during a most trying period.

Substantial Gain in Earnings

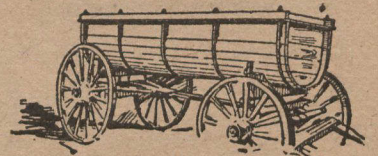
The profit and loss account shows that earnings allow a comfortable margin over the dividend and bonus requirements. They are substantially above those of the previous year. The net profits for the twelve months amounted to \$2,477,969.09, equivalent to 15.49% on the paid-up capital. Added to the balance of profit and loss, they brought the total amount available for distribution up to \$3,892,393. Of this amount, dividends and bonus required \$1,920,000; war tax on bank note circulation, \$160,000; subscriptions to patriotic fund, \$73,500 (of which paid \$47,500); reserve for bank premises, \$100,000, leaving a balance to be carried forward into the new year of \$1,664,893, as compared with \$1,414,423 at the end of the previous year.



8 FT. DIAM. 2 FT. STAVE — PRICE \$18.50
 7 FT. DIAM. 2 FT. STAVE — PRICE \$22.00



HALF ROUND STOCK TANKS
 8 Ft. Long, 3 Ft. Wide 1 Ft. 6 In. Deep
 PRICE \$17.00



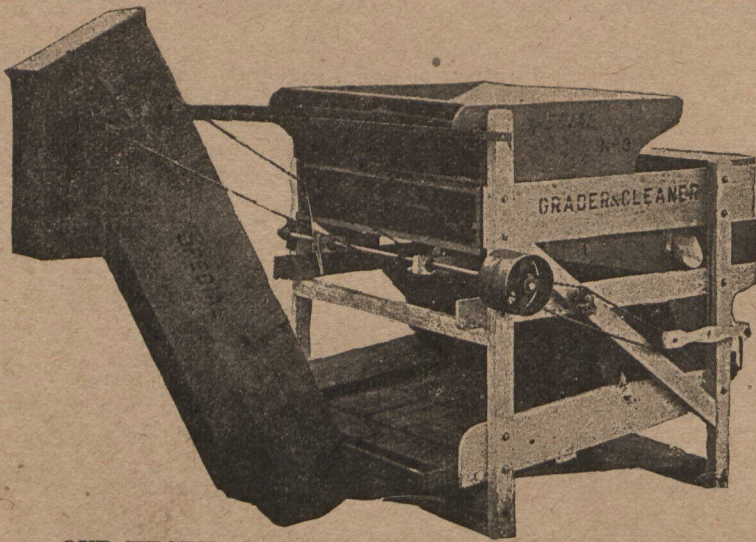
THRESHER TANKS
 12-BARRELS CAPACITY — PRICE \$40.25

We make Tanks for any purpose and Guarantee them
 WRITE FOR PRICE LIST

WESTERN TANK & IMPLEMENT CO. LIMITED
 CALGARY BOX 1608 ALBERTA

CLEAN YOUR GRAIN BEFORE MARKETING

"Special" Graders and Cleaners



OUR HEAVY FRAME No. 3 MILL, 40 INCH SCREEN.

Clean your grain before shipping with our Special Grader and Cleaner. Last year the farmers of the West shipped three million bushels of screenings to the terminal elevators which was sold in the United States. They were docked for this and also paid the freight on it. Why not clean your grain on the farm and save the screenings for feed?

SPECIAL FEATURES—Our machines are strongly built with vertical air blast, making separations of grain based on difference in weight that can be made in no other way.

CLEANING SCREEN—Our mills have a cleaning screen in the top shoe which takes out all the small seeds before the grain goes into the air blast; same comes out separate spout on side. This is a special feature no other mill has.

Made in sizes 24, 30, 40 and 52 inch with or without bagger and with power attachments if desired.

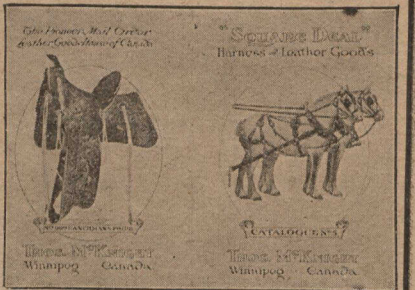
We also manufacture The Rotary Automatic and The Marvel Automatic Picklers, and The Chief Smut Machine. Write us for Booklet, containing full particulars.

Metal Specialty Co., Limited

REGINA, SASKATCHEWAN
 Corner Sixth Avenue and Halifax Street. Phone 2781

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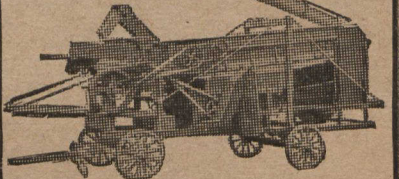
SADDLES AND LEATHER GOODS
 Send at once for this splendid catalog if your name is not already on my mailing list.
 DO IT NOW—IT WILL PAY



Address:
THOS. McKNIGHT
 160 PRINCESS STREET
 WINNIPEG :: CANADA

The Wonderful—Light-Running Gilson Thresher

"Goes like Sixty"



Saves Time—Money—Labor. Be independent of the gang. Keep your farm free of weeds. Do your threshing when you please, with a 6 to 12 h.p. Engine and the Wonderful Light-Running Gilson Thresher. Furnished with or without Blower. Send for full particulars.
GILSON MANUFACTURING COMPANY LTD.
 Dept. Winnipeg, Man. 48

VETERINARY INFIRMARY

PHONE M3237
 110 SIXTH AVE. E. CALGARY

Special ward for dogs and cats which are kept in perfectly sanitary kennels. Animals treated by the most scientific and up-to-date methods.

DRS. MCKAY and LECLAIRE
 RESIDENCE PHONE: M1950-M2254.

Queries and Answers

INFECTIOUS MASTITIS

As a reader of your highly interesting paper may I ask your help in the following:

I have a herd of highly bred Holstein cows and for the past two years have had trouble with the udders after cows have been turned into wild pasture after hay has been taken off—about second of August. The first symptom is thickening of the milk passage in the teat—one or more quarters being affected. After a day or two this inflammation spreads up into the quarter—there is local heat and the milk changes to a watery fluid—sometimes stringy—but without smell and not at all like a caked udder. This remains for about two weeks when the inflammation gradually subsides, the flow of milk gets less and the affected teat and quarter kind of shrivels up and feels hard and knotted. A very small flow of milk can be got from the lost quarter while the other

were in pasture. You claim you have disinfected the barn with lime and bluestone which was the right course to follow, but too bad you have not disinfected your cows, and irrigated the bags and teats. Would suggest that you call a qualified veterinary who will attend your cows and fix things right in and around the stable.

RINGWORM

Editor Farm and Ranch Review:—I have started a ranch here and have a few calves running with their mothers. When the first snow came I put them in the stable and have been looking them over. After a good inspection I found two of them have on the back of the ear a spot about two inches wide and three long. The spots looked to me like some gum from the spruce trees, but after looking after them with good care, I found that they were some kind of sore. The spots are light grey and hair continued to

CLYDESDALES AT AUCTION



From left to right "Rose of Whitehill", imp., 8 years, by "Everlasting"; "Royal Rose Star" 3 years by "Baron Gartly", "Baroness Hiawatha", 3 years, by "Sir Hector of Westfield", imp., "Flash Jean", 5 years old by "Flash Sturdy," imp.

At THE EXHIBITION GROUNDS, VICTORIA PARK, CALGARY,
On WEDNESDAY, DECEMBER 12, 1917

12 HEAD—MARES—12 HEAD

In addition to the above females in the illustration, the balance of eight head are all two and three years old, and carry the blood and breeding of such well-known sires as "Baron Gartly", "Matchless", "Montrave Magnus" and others.

These are a particularly fine lot of females and should find a ready sale. All the mares are in foal to "Kitchener of Khartoum" one of them to "Rycroft Model".

Clydesdale Stallions.—I have also in my barns for sale by private treaty a number of Clydesdale Stallions ranging in age from two to four years big, growthy, well bred horses by the following sires among others. "Baron Gartly", "Bogton Prince", "Matchless", "Drumflower Marcellus", while others carry the lineage of that great sire of sires "Baron's Pride." These horses are all thoroughly acclimated and they will be sold at a reasonable figure. Let me know if you are in the market for a good stallion.

W. S. MCKINNON

OLDS

LONG DISTANCE PHONE

ALBERTA



One of the headers of the flock of the Western Stock Ranches, Cluny, Alta. for their 1918 lamb crop. See advt., page 1060.

quarters all the time give the usual flow but the cow is left three teated. The condition and appetite is good right along. Out of a herd of 26 cows 12 were affected more or less this year. In the slight cases the udder returns to a natural condition but this year three valuable cows have each lost a quarter.

The strange thing is that exactly the same happened at the same time last year when cows were turned into this pasture. We have disinfected the barn with lime and bluestone, have given a good condition powder, bathed the udders with creolin and rubbed with lard, camphorated oil and strong liniment without any success.

I have been told that this disease is garget and that it is contagious and that the best remedy is an injection of perchloride of mercury, one in fifteen hundred, but my experience of garget is that there is a bad smell and after bursting of the skin of the udder with a discharge of pus whereas no such state has happened to our cows. I shall be extremely obliged for any help you may give as it is certainly a most mysterious and serious state of things. Thanking you in anticipation.—A Pleased Subscriber.

Reply: Your letter received and contents noted, your cows are suffering from infectious mastitis and you may be certain that the disease was not contracted while your cows

grow on them. Although I have washed them, the conditions appear unchanged. Will you tell me what to do in the matter? The calves eat and drink well.

I have also a grade Holstein I bought this spring, and she has in the side of the left jaw two little hard balls about the size of an egg. What can I do for it?—E. B.

Answer: Your cattle are no doubt suffering from Ringworm. Suggest that you rub those spots as described with tincture of iodine. For the purpose you may use an old tooth brush. You can rub well in the affected parts once a day for four or five days, then stop and let go for about twenty days, at which time if it still appears give another application. For safety you may rub the iodine a little wider circle than the Ringworm.

Re your Holstein cow: From description given I think that, as you described it, the two little balls on the side of the jaw are either small fibrous tumors, or two wattles, which in either case can be removed by a surgical operation.

BOG SPAVIN

Editor Farm and Ranch Review:—

Have three-year-old Percheron colt, weighing 1,500, which has a small blood spavin on one hind leg. It is not large nor does it lame him. When the animal is full fed it is more prominent in the morning, but as soon as

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500 HEAD OF PURE-BRED CATTLE and HORSES to be offered For Sale by Auction

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PURE-BRED SHORTHORN BULLS are in universal demand in every country in the world,—a fact worth considering if you expect to establish a pure-bred herd or to purchase a bull for the production of commercial cattle.

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THE GRAND TRUNK PACIFIC

Means that your holiday starts when you do. Travel is more than going somewhere. It is a pleasure in itself.

Very low excursion fares to all points in Eastern Canada and to many cities in Central States daily during December. Through tourist car service.

Ask the agent, or write for pamphlet to

W. J. QUINLAN,
DISTRICT PASSENGER AGENT,
WINNIPEG, MAN.

he is worked a short time it almost disappears for periods. Some days it is larger than others. This blemish is of a year's standing. Do you think it should have treatment? The animal is very steady and a good worker. Please advise what should be done, if anything.

Answer: This is a bog spavin and treatment is not satisfactory unless taken in its early stages and when the animal is young. If there is heat pain and swelling apply cold water or ice packs until the inflammation has left the parts. Then use the following: Tr. iodine, 2 ozs.; gum camphor, 2 ozs.; gasoline to make 1 pint. Mix and shake well before applying with a tooth brush twice a week. (Note: Legal inquiries are answered through the paper).

CHURNING DIFFICULTIES

Editor Farm and Ranch Review:— I have had trouble with churning this fall. When I begin to churn, whether cream is warm or cold, it foams up and fills the churn, and I cannot get butter no matter how long we churn. The cream does not sour and get thick as it does in summer, but gets a slightly bitter taste. Can you give me any reason for this? I am churning from just one cow.—Mrs. A. H., Vegreville.

Answer: Referring to your subscriber's inquiry: I would say that churning difficulties of this kind are quite common in home dairies during the fall and winter months, especially when the cows are nearing the end of their milking period.

Normally as the period of lactation advances and the cows are fed principally on dry feed a gradual change occurs in the composition of the fat of the milk, and, as a consequence, a somewhat higher initial temperature is required to churn out the butter in the usual time—about 30 minutes. Also, as the milk yield of the cows decreases it is a common practise in small dairies to churn the cream less often than formerly; this means holding the cream longer and allowing certain fermentations to take place, even if kept cool. Judging by your correspondent's letter this is evidently what has occurred, a bitter fermentation has developed in the cream, and, as a consequence, it will not churn. The principal, and perhaps only remedy for this condition is more frequent churning, perhaps as often as twice or three times a week will be necessary in order to secure butter in a reasonable time and of good flavor. It is assumed, of course, that your correspondent had no churning difficulties until the abnormal conditions developed which are described in the letter.—C. P. Marker, Dairy Commissioner for Alberta.

POTATOES GOOD CROP FREE SELLING ADVISED

Mr. F. M. Black, chairman of Mr. Hanna's Dominion fruit and vegetable food control committee has expressed the opinion, in a recent interview that but two provinces are really short on potatoes these being Quebec and Saskatchewan the latter province having lost part of its crop through frost.

Mr. Black believes that growers and dealers should sell freely, moving every bushel they can to points where the consumer can easily secure same when he requires it. Their profits this year will come from steady movement. Any other policy will result in huge offerings in the spring, low prices and discouraged growers.

Everything considered the Alberta producer and dealer who obtains from 60 to 65 cents per bushel is receiving as high a price as present conditions warrant.

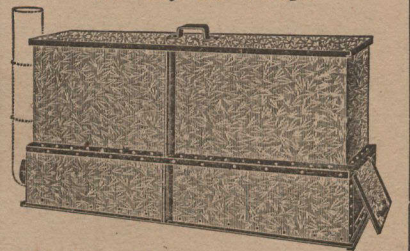
Keep on good terms with the swine. To be a successful swine breeder requires the undivided attention of the breeder.

WATER YOUR STOCK

With a New Improved STRAW BURRING

SNOW MELTER

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We Pay the Freight



Boiler 28in. x 18in. x 6ft. - \$30.25
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An Unconditional Guarantee with Every Cooker. Send for Catalogue.

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High Class Breeding Poultry FOR SALE

S. C. White Leghorns, Ferris Strain, bred to lay. First class utility cockerels, \$2.00 each. A number of exhibition quality cockerels fit to win at any show, \$4.00 to \$10.00 each according to quality. A number of R. C. White Leghorn Cockerels from one of the best exhibition and laying strains in Canada, \$2.00 to \$6.00 each.

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White Holland Turkeys the large kind some mammoth young toms, weight 18 to 23 lbs. each, \$6.00 to \$8.00.

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Built like a battleship — for heavy duty under all conditions. More power—less labor. Do your work quick—easy. Save \$15.00 to \$200.00 by buying direct from factory. Immediate shipment—Absolute Guarantee. 30 days free trial.

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Registered Suffolk, Oxford, Lincoln, Leicester and Shropshire Rams for sale; also good, young, well-bred breeding ewes for sale.

They do not get dried, rusted or haled out. The best kind of live stock for large and quick returns. Buy them now before they go up this Fall.

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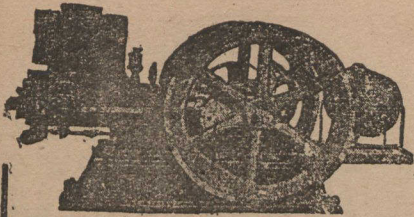
Young Boars ready for service for immediate sale

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The Dairy



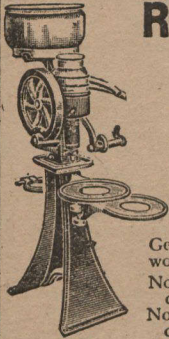
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**WATERLOO BOY
GAS ENGINES**

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- 3 H.P. \$72.50 With Magneto \$83.50
- 5 H.P. \$115.50 With Magneto \$126.50
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- 9 H.P. \$249.50 With Magneto \$262.50

Mounted on Skids

The best mechanical help you can get. Satisfaction guaranteed or money back promptly. Sizes 1 1/2 to 14 h.p. Will run your grinder, churn, pump, saw, cream separator, etc., and give entire satisfaction in any weather. Prompt Delivery Guaranteed.

Write To-Day for Full Information



RED STAR

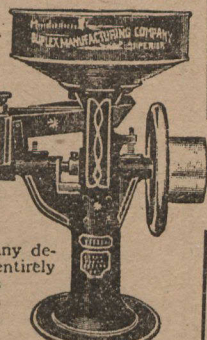
The Most Wonderful
Cream Separator
Money Can Buy

The perforated equalizing sleeve which distributes the milk equally to the discs is the most wonderful invention ever put into a separator to increase its efficiency. Gets more cream than you would think existed in the milk.

- No. 30—300 lb. capacity \$45.45
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Superior Grain Grinders

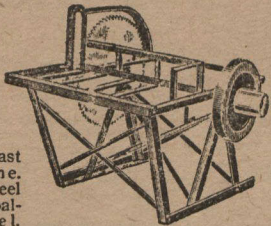
Constructed to meet the needs of the practical farmer. Large capacity. Shake feed means automatic feed. No burrs. Small grinding plates mean less power required. These plates grind to any degree of fineness until entirely worn down. Two sets of plates furnished with each mill. Price complete \$21.85



WATERLOO BOY ALL-STEEL SAW FRAME

Complete
\$27.65

Built of heavy steel angle bars, double braced; will last a life time. Cold-rolled steel shaft, 80-lb. balance wheel. Ball-and-socket-joint method boxes ensure perfect self-aligning.



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JOHN G. WILLIAMS GEO. P. GROUT

A.R. RED POLLED CATTLE

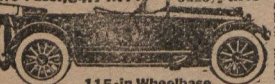
Hornless, Heavy Fleshed, Deep Milkers. We have made 50 official records that average 564 lbs. butter in one year with Red Polls. Our three mature herd bulls weigh a ton or better. Consistent first prize winners in 1915-16. For list of herd bulls see Feb. 5th issue Farm and Ranch Review—JEAN DU LUTH FARM, Duluth, Minn., U.S.A.

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, Secretary, St. George, Ontario.

Driver Agents Wanted

Drive and demonstrate the Bush Car. Pay for it out of your commissions on sales. My agents are making money. Shipments are prompt. Bush Cars guaranteed or money back. 1918 models ready. Write at once for my 48-page catalog and all particulars. Address J. H. Bush, Pres. Dept. 200, 115-in Wheelbase Delco Ignition—Elec. Stg. & Ltg. BUSH MOTOR COMPANY, Bush Temple, Chicago, Illinois



SIRE'S BRING GREATER RETURNS NOW

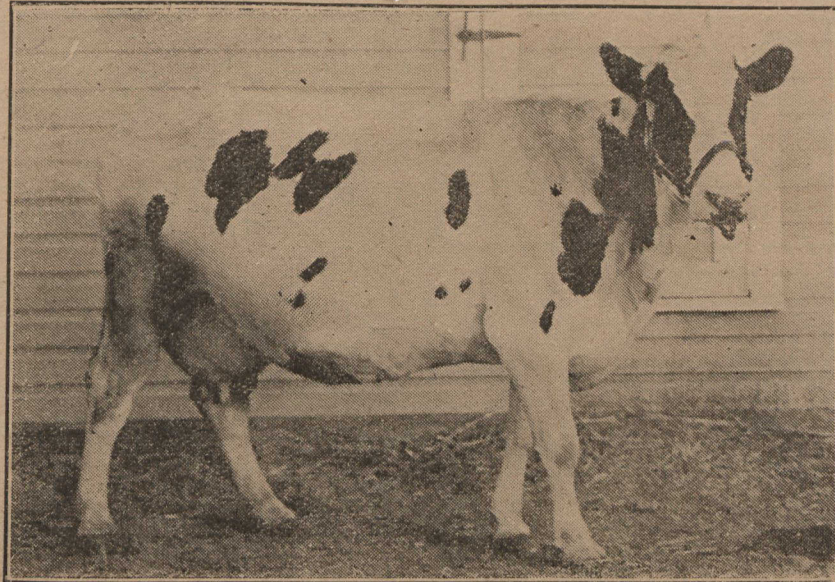
The higher the prices of live stock and live stock products, the greater becomes the value of the improvement brought about by the sire. For instance, it was found at the N. E. Substation in Minnesota that the daughters from scrub cows and well bred dairy sires averaged 50 pounds more butterfat per year than their dams. When butterfat was 30 cents this would amount to \$15, but when butterfat brings 45 cents this value is \$22.50, or \$225 for ten years. This does not take into account the larger amount of skim milk and the greater value of the calves, which will, at least in a measure, offset the cost of the larger amount of feed required.

BUTTER VERSUS SUBSTITUTES

There has been an idea prevalent among dietists and chemists, as well as persons in general, that all fats yield only energy and heat. Until recently no experiments had shown any important difference between butterfat and other fats. It had, of course, been proved that fats of low melting point were more digestible than those of a high melting point.

make it more palatable, changes in salts used, the kinds and amounts of sugar, but always the same result—growth ceased at the age of about four months. It was in an attempt to increase the palatability of the diet by substituting pure butterfat for the lard, which had been used as the fat in the ration, that the experimenters found these new facts. The little animals immediately began to grow just as when milk was fed. It was evident that butterfat supplied something necessary for growth which lard could not supply. Other experiments were carried on to determine whether other fats would produce the same effect as butterfat. Experiments with tallow, olive oil, corn oil, cottonseed oil and peanut oil proved futile, while the fat of eggs and fat extracted from the coils of pig kidney produced the same result as butterfat. It seems evident that the fats obtained from the living protoplasm of animals have this property of inducing growth after growth has ceased. Thus far no plant fat has been found to possess this power.

Experiments with pigs and calves gave results similar to those with the rats. If records of experiments on man were available, it is reasonable to suppose that results fully as striking



Blue Bell Toitilla Clothilde. Sire, Toitilla Pietertje De Kol Boy, 3509; dam, Clothilde Bella, 2162. Holstein cow, the property of W. M. Williams, Bawlf.

Aside from this, there was thought to be but little difference in their food value. In the estimation of many, "fat was fat" and yielded only energy and heat.

The oleomargarine people often took advantage of this fact to exploit a cheap product as a substitute for butter. Whether or not this "just as good or better product" is at all worthy of the place they claim for it has always been questioned by dairy and creamery men. Experiments carried on by F. B. Osborne, of the Connecticut Experiment Station, Dr. Mendel of Yale and E. V. McCollum of the Wisconsin Experiment Station, are interesting, and prove the real value of butter, that butterfat not only yields energy and heat as do other fats, but that it contains something more vital than other fats, a principle which life itself.

In experiments carried on with white rats, young rats were fed mixtures composed of chemically pure protein, starch, fat, sugar and various salts, and got along splendidly for the first three months. Then they lost appetite, fell off in growth and finally starved. After numerous experiences of this nature, the investigators found that if milk were added to the ration, the little animals began to regain normal condition, to thrive and grow to maturity. Many changes were made in their diet to

ing would be obtained. In this connection the editor of Hoard's Dairyman recalls two instances in which two public institutions had, in the interest of so-called economy, substituted oleomargarine for butter in the diet of inmates. It was noted that when oleo was used the inmates were not in as good physical condition and that physicians were in greater demand than before. When oleo was replaced by butter, it was reported that the health of the inmates was improved.

In the light of these experiments and observations it is reasonable to suppose that even more marked discrepancies would be apparent in the growth and general health of young children.

Just how much or how little butterfat can be used and still maintain growth has not yet been determined—but enough has been proved to give the dairyman reason for his assertion that butterfat is a better food than butter substitutes composed of vegetable fats and oils.

CARING FOR MILK AND CREAM ON FARM

There are at least five important factors which must be considered in the production of clean milk and cream. The stable, the cows, the milker, the utensils, and the cooler must each receive the careful attention of



Don't wait till
next spring to
get your new

DE LAVAL

With butter prices soaring no cream producer can afford to go another month without a New De Laval Cream Separator.

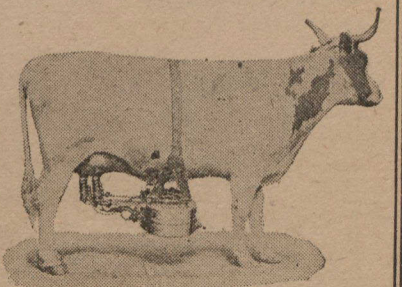
This is true whether you have no separator, or an inferior or half-worn-out machine, or even an old style De Laval.

In cold weather your waste of butter-fat is relatively greater, either with gravity skinning or a poor separator; and at present prices for cream a De Laval would very soon pay for itself out of its own savings.

See the nearest De Laval agent right away and let him show you what the De Laval will save for you. If you do not know the local De Laval agent, write direct for any desired information.

The De Laval Company, Ltd.
MONTREAL PETERBORO
WINNIPEG VANCOUVER

The OMEGA Milking Machine



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 there are no rubber tubes in the Omega to crack and harbor germs. The Omega is easily cleaned.

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Berkshire and Tamworth Pigs, all ages. Boars and Sows, Oxford Rams and Ewes, Shropshire Rams and Ewes, Holstein Bull Calves.

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ROBERTS BROS.

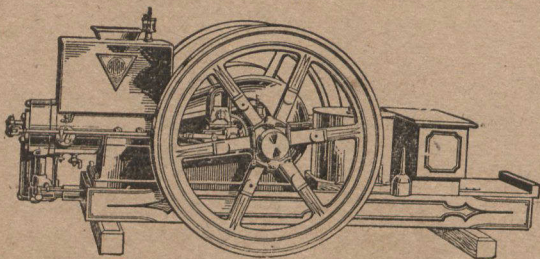
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"MACHINES MUST TAKE THE PLACE OF MEN"

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Grind Feed
Saw Wood
Pump Water
Run Separator,
Churn or Wash-
ing Machine.

AN ALPHA Engine is almost indispensable on the farm these days when labor is so hard to get. It's so reliable, too. Always on the job. Never quits. Never gets laid up. You can always depend on an "Alpha."

Thousands of Canadian engine-owners swear by the ALPHA because they have found that it is reliable at all times and under all conditions. It is sturdily built. It is simple in construction. It is powerful. It runs on either gasoline or kerosene and develops its full published horse power on a minimum amount of either. If you want an engine that you will be thoroughly satisfied with, put your money into an ALPHA.

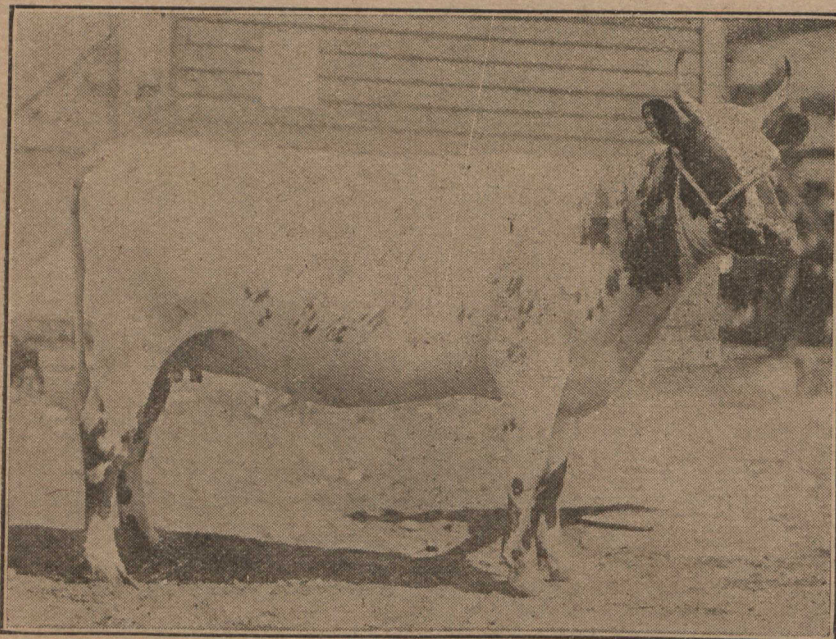
Ask for catalogue, prices and complete information. Made in eleven sizes, 2 to 28 H.P. Each furnished in stationary, semi-portable or portable style, and with hopper or tank cooled cylinder.

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MONTREAL PETERBORO WINNIPEG VANCOUVER
50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

LAKEVIEW AYRSHIRES FOR MILK USEFULNESS, BUTTER



Ayrshire Cow, Marie of Lone Spruce. Sire, Fortune of Lone Spruce; dam, Marie of Excelsior. Three-year-old Ayrshire Cow, prize winner at all the Western Canadian Summer Fairs of 1917. Owned and exhibited by Roland Ness, De Winton, Alberta.

For those wishing some excellent Foundation Stock I am offering for sale a number of young bulls of different ages, as well as a few cows and heifers of exceptional merit. I have also a number of calves of both sexes.

My herd is headed by "Burnside Masterman" 46968 sire "Hobland Masterpiece" (Imp.) 36717 and "Emperor of Ravensdale," bred by W. F. Kay, Phillipsburg, Que.

Perfection of udder, trueness to type, beauty of top and underline are the outstanding characteristics of my animals.

PERSONAL INSPECTION CORDIALLY INVITED

ROWLAND NESS, DE WINTON, ALTA.

the dairyman if the best milk is to be produced.

Milk, when pure and clean, is one of the most healthful and nutritious of human foods. Contrary to a more or less common belief, it does not require expensive equipment, high priced cows, or much extra work to produce clean milk.

With a healthy herd and a stable and yard which can be kept clean with but little labor, careful attention to details is all that is required to produce a milk which at once is highly nutritious and exceedingly wholesome.

The Dairy Barn Must Be Clean—The protection of milk from dirt and disease germs is an easy or a hard matter, according to the conditions under which it is produced. If cows are milked in a dark stable where the floor is saturated with manure, and the ceilings decorated with hay and straw, it is almost impossible to produce milk fit for human consumption or suitable for making good butter or cheese.

The same material may be used in building a clean cow stable as in constructing a dirty one. By giving the matter a little study it will be found that the arrangements and conveniences needed for keeping cows healthy and the milk clean are not expensive luxuries; they are common, everyday necessities that far exceed in satisfaction the cost of installing them.

Some of the conveniences and arrangements of a stable which will aid in keeping the milk clean are included in these suggestions:

- (1) The stable should be used for cattle only, as the odor from horse stalls and pens for pigs and other stock is very objectionable.
- (2) About 500 cubic feet of space should be provided for each animal.
- (3) Sufficient light is needed to furnish at least four square feet of window glass for each cow stanchion, and the windows should be so constructed as to be opened and closed easily. The light should be well distributed.
- (4) Ventilation should be obtained by an arrangement designed for taking in the outside air and passing it through the stable to the roof.
- (5) The floor should be water-tight, drained easily, and built of some non-absorbent material. A cement floor is easier to keep clean than a wood floor.
- (6) The walls and ceiling should be smooth, with the fewest possible ledges and corners for catching dust, cobwebs, and rubbish. The floor gutter may well be sprinkled with plaster after cleaning and the walls white-washed at least twice each year.
- (7) The manure gutters should be six to eight inches deep, and the manure should be removed from the stable at least once a day and stored at a distance from the stable or taken at once to the field.
- (8) The stanchions should be comfortable and adjusted to make the cows stand where the manure will drop into the gutter instead of on the floor under the cows.
- (9) Nothing but clean, dry, odorless, and absorbent bedding should be used, such as clean straw, sawdust, or shavings.
- (10) A clean, dry barnyard, well sheltered from cold and rain, will greatly aid in keeping the cows clean and comfortable. A concrete barnyard helps in keeping the cows clean. Drains should be laid under the concrete. Sometimes a part of a cow yard is made of concrete and enclosed by a fence, while another part may have a dirt floor to be used in dry weather.
- (11) Provide a handy place to keep the milking stool, brushes, forks and other tools used in the cow stable.

How to Care for the Cows—Much of the milk delivered to creameries and cheese factories will not keep sweet in warm weather for more than one day. This is not the fault of the cows, for their owners and milkers are responsible for much of the dirt found in the milk.

(Continued in Next Issue)

If you are troubled with the "know-it-all" disease, wake up and get cured.



BUY LUMBER FROM US

SAVE 20 TO 40 PER CENT.

The Grain Growers' Guide says that in 1914 it took 18.9 bushels of wheat to buy 1000 feet of lumber. Today it takes only 11.6 bushels. The difference—7.3 bushels—means lumber to you at \$17.52 less per thousand feet.

Put the Middlemen's Profits in Your Own Pocket.

We sell direct to you everything you need for a house, barn or outbuilding—lumber, shingles, lath, windows, doors, etc., at less than retail prices before the war.

Send Today for Full Price List giving terms and prices delivered, freight paid, to your nearest station. Farmers, Contractors, Secretaries: If you have any bill of list of lumber—in any quantity—send it to us. We'll return you a quotation, delivered at your station.

What Customers Say:

(We have hundreds of such letters.)

HIGHEST QUALITY.

John A. Thompson, Macklin, Sask., writes: "I have received the car of lumber you shipped, and am very well satisfied with it. In fact, the carpenters say the finishing lumber was the best they had ever used. I saved \$207.00, which the local lumber men claimed I could not do. Thanking you for your promptness in handling my order, and wishing you every success."

LOWEST PRICES.

Rev. Father Ueberberg, Claybank, Sask., writes: "I write you these few lines to tell you that I am very satisfied with the quality of the lumber you sent me. When my contractor inspected the lumber, he stated, 'That's the kind of lumber I like to build houses with.' By ordering the lumber for my house from you, I saved between \$300.00 and \$400.00."

PROMPT SHIPMENT.

M. E. Mattice, Wastina, Alta., writes: "I received the lumber in good time, and in first-class shape. A number of my neighbors have called to see the lumber, and they say it is the best they have seen in Alberta. I saved \$375.00 on my order, and besides, I got the best of quality, whereas, if I had got my lumber here, I would have received No. 3 grade for No. 1."

UNEXCELLED SERVICE.

Jas. Lang, Birnie, Man., writes: "The lumber you sent me gave complete satisfaction. The carpenters were delighted with it, and besides getting it direct from you, made a considerable saving in price. I was also well pleased with the promptness with which you dispatched the order, and with the clear business-like way in which you made out the lists and other paper."

PERFECT CO-OPERATION.

C. R. Johnson, Sec.-Treas., Primate Grain Growers' Assn., Primate, Sask., writes: "Car C. P. 109598 arrived O.K. and has given the best of satisfaction. Everything was in order and the parties who ordered are more than satisfied. I am pleased to recommend the lumber our Association received from you as the best of grades, and better far than we have received from other companies."

ORDER NOW.

Lumber prices are bound to rise owing to increased cost of mill equipment, scarcity of labor, etc. Send in your order at present low prices and before the Spring rush comes. Make sure of having your lumber in time.

A small house or barn makes a minimum carload. If you don't need a carload, club with your neighbors and save them money too. We mark each order so there is no confusion in unloading.

The F.M.T.C. LUMBER CO.
DEPT. S VANCOUVER B.C.

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CATTLE

Write any of the following Commission Agents or Dealers at

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CARSON, WOOD & WEILLER
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H. SCHMITT

Kindly Mention the "Review" When Writing Advertisers.

WHEN WRITING ADVERTISERS, KINDLY MENTION THE "REVIEW"

**A BUSINESS ESTABLISHED UPON A CASH BASIS
HAS A FOUNDATION SOLID AS THE BED-ROCK**

**—A MARKET—
FOR
CREAM and MILK**



P. PALLESEN
Founder and Manager, Calgary Central Creamery

In 1910 the Calgary Central Creamery was opened to receive consignments of farmers' milk and cream. This was the beginning of the Calgary Central Creamery as a market for farmers' milk and cream.

Compare the growth the first year with the volume of business handled since then. Here is the record:

Year Ending April 30th	Pounds Butter Manufactured	Cash Paid for Cream	Cash Paid for Milk	No. of men Employed	Average Monthly Wage Account
1911	46,222	\$ 10,278.47	-----	4	\$286.50
1912	233,286	53,579.83	\$11,255.04	11	702.50
1913	300,121	82,784.17	51,906.93	25	1,996.50
1914	570,650	139,279.63	59,518.78	41	3,000.00
1915	800,252	192,650.47	52,857.64	49	3,900.00
1916	1,328,139	320,575.62	65,927.21	63	4,934.00
May 31 to Oct. 31, 1916	1,378,903	360,941.79	41,103.80	83	8,019.00

**TOTAL BUTTER MADE FROM MAY 1ST, 1910, TO
OCT. 31ST, 1916, 4,647,573 POUNDS.**

**DIRECT CASH PAID TO FARMERS DURING THE
SAME PERIOD FOR MILK AND CREAM.**

\$1,442,646.98

This is a proud record for quantity of product and volume of business, and another record we are proud of is the fact that during the years 1914-15-16-17 we have taken more prizes at the leading exhibitions than any other creamery and dairy in the Dominion of Canada.

The growth of the Dairy Industry in the Province of Alberta is shown by the growth of the Calgary Central Creamery and Dairy. I have now installed the best Creamery Plant in the Dominion of Canada, and am now in a position to handle any amount of cream. In fact, I can turn out 25,000 pounds of Butter per day. Also I have a complete Ice Plant, in connection, ample cold storage facilities, a complete cheese plant, and am in a position to handle Eggs from all our shippers.

The Calgary Central Creamery has been continually in operation, winter and summer, since May 1st, 1910, and I am in the market for all the Cream I can possibly buy.

Briefly, my proposition to you is this:—

(1) I pay for the Cream or Butterfat for each and every shipment by express money order. When you ship me a can, within two days you find your empty can at your station, and express order and statement in your Post Office.

(2) All Cream is bought strictly on the grading system and I pay the highest market price for Cream—sweet or sour.

(4) Every can of Cream will be tested upon arrival, and your statement will show weight, test, grade, and value of Butterfat contained in each shipment. Hence, you will be in a position to know exactly where you are at, and what your cows are doing each week.

(5) I pay the express charges on all shipments, and if you have no railroad shipping cans to begin with, I shall furnish you with a sufficient number until you find, as you undoubtedly will, that the Central Creamery gives you satisfactory returns; then you may pay me wholesale price for the can or cans, and they become your own property.

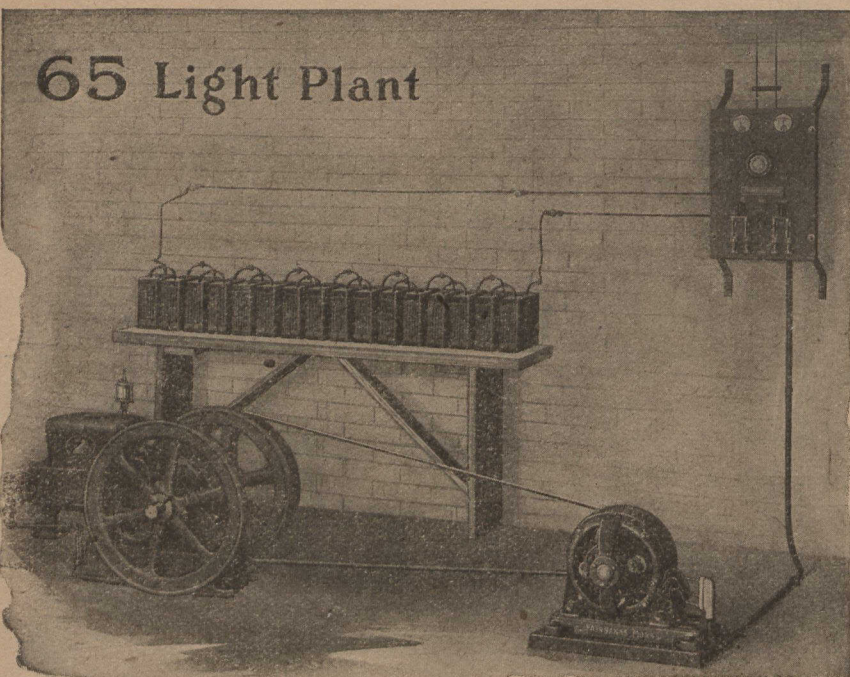
(6) You can ship your cream any day, except on Sundays, and on any train you like.

As to my financial standing I can refer you to the Bank of Montreal, Calgary.

I shall be pleased to give you any further information which you may desire.

CALGARY CENTRAL CREAMERY

**Creameries at
CALGARY --- CAMROSE --- OLDS --- ECKVILLE
ALBERTA**



65 Light Plant

Fairbanks-Morse Type F Electric Lighting Plant

The most modern, efficient, and up to date plant in use today. Consists of gasoline or kerosene engine, a dynamo, switchboard, and a storage battery. The batteries are charged once or twice a week by the 3 h.p. kerosene engine which is self-cranking. This plant is supplied in 50, 65, or 100 light sizes.

Write for illustrated booklet, and prices, also ask about the Fairbanks-Morse Fresh Water System, which should be installed in conjunction with the lighting plant. With this system water is delivered under air pressure direct from well or spring any distance. A compressed air tank starts the pneumatic pump, and fresh water is supplied in your house. Your engine when charging the batteries in your lighting system, will at the same time operate air compressor. Write for full particulars, also ask us about our "Mor'Lite" Electric Lighting Plant, which is direct connected and starts from a push button.

The Canadian Fairbanks-Morse Company Ltd.
SASKATOON WINNIPEG CALGARY

FAIRVIEW STOCK FARM

Shorthorn herd headed by "Augusta Star" 86579, first in his class Brandon, Regina and Saskatoon, 1917, Summer Fairs.

Stock all ages, both sexes, for sale. Also Yorkshires of most improved type.

J. G. BARRON

CARBERRY :: MANITOBA

HEREFORDS

IN THE OKANAGAN

PINE CREST RANCH
LUMBY B.C.

A. F. KEMPTON, Proprietor.

J. A. QUESNEL, Manager.

They are beautiful animals. You should drop around and see them.

ELMHURST STOCK FARM

CANADA'S LARGEST POLLED HERFORD HERD



We have for immediate sale 12 bulls of one year old and over, sired by "Generation". We have also about twenty head of bulls of this year's breeding, sired by our present herd header "Climax." This sire has had a

show yard reputation second to none, in both polled Hereford and Horned Competition. We have also a carload of grade Hereford Cows and Heifers safe in calf to "Climax", to sell at most reasonable prices.

WRITE FOR PARTICULARS OR COME AND LOOK OVER OUR STOCK.

JONES BROS.

WHITEWATER

MAN.

Farm Poultry

OFFICIAL ORGAN OF THE ALBERTA POULTRY ASSOCIATIONS.

POULTRY MARKETING COMMISSIONER APPOINTED BY PROVINCIAL DEPARTMENT OF AGRICULTURE

The Provincial Department of Agriculture announces that it has added to its administrative services the office of Poultry Marketing Commissioner. The purpose of the office is to develop the poultry industry for maximum efficiency in the production and marketing of poultry products, as well as for the increase of farm revenue from the larger production of eggs and poultry of improved quality. The work is in charge of J. H. Hare, with office at 23 Crown Building, Calgary.

Until recently the effective outside demand for our poultry products has been small owing to the mixed, and in some cases inferior quality of eggs that have gone forward. It is hoped that the educational and marketing work of the Provincial Poultry Marketing Commissioner will have the effect of preventing the deterioration of quality in eggs and aid in the development of a reputation for the Alberta product such as will result in a profitable export trade. Thus far, the activities of the Department have been confined chiefly to the organization and operation of the egg marketing service, which work is being carried on in co-operation with the Dominion Poultry Representative.

The educational work of the Department has the following aims:—

The encouragement of the production of the higher grades of both eggs and poultry by the adoption of improved methods.

The conservation of food by the elimination of unnecessary loss in marketing.

The stimulation of production by the payment for produce on a quality basis.

The work of selling and grading is done at actual cost of transportation and ordinary handling. Present channels of trade are being interfered with as little as possible. The services of the local merchants in nearly all cases continue to be used. Direction and assistance in relation to production, handling, or organization for marketing may be had on application to the Poultry Marketing Commissioner.—H. A. Craig, Deputy Minister.

CRATE FATTENING

Wide Versus Narrow Rations

The use of crates for the finishing of poultry for the market has been general for years and yet this year, with the high cost of feed much of the stock is being killed in a very thin condition. Numerous tests have shown that feeding in a crate or coop for 15 days before killing produces a high quality and an economic flesh, and even this year this practice of finishing will pay. At the same time there are rations that will produce flesh more cheaply than others and for feeding this year it is more important than ever to make the most out of the feeds used. Therefore, a further test made by the Experimental Farm will be of interest. For flesh the ration should be high in fat forming material and because of the tendency on the part of some to use for crate feeding a ration high in protein, a trial was suggested between narrow rations (rich in protein) and wide rations (rich in fat).

The object of the experiment, therefore, was to determine the relative value of a series of rations ranging from an extremely "wide" nutritive ratio to one correspondingly "narrow." For this experiment sixty vigorous cockerels were selected and placed in five crates. They were fed rations ranging in nutritive ratio 1:7.1 to 1:3.2.

The rations fed and their nutritive ratio were as follows:

No. 1.—6 parts milk, 1 part ground oats, 1 part corn meal, 1 part buckwheat, ½ part tallow. Ratio, 1:5.6.

No. 2.—6 parts milk, 1 part ground oats, 1 part corn meal, 1 part buckwheat. Ratio, 1:5.09.

No. 3.—4 parts milk, 1 part F. flour, 1 part bran. Ratio, 1:3.2.

No. 4.—4 parts milk, 1 part ground oats, 1 part shorts. Ratio, 1:4.1.

No. 5.—6 parts milk, 1 part ground oats, 1 part corn meal, 1 part buckwheat meal. Ratio, 1:5.09.

An attempt was made to increase the tallow to one-half part and widen the ration to 1:7.1, but this resulted in an unpalatable and heavier feed than the birds could evidently assimilate. The amount fed was doubtless the limit of pure fat material that could be supplied in a ration and give any likelihood of beneficial results.

Without skimmed milk, it would not be difficult to widen the ration by the addition of feed rich in carbohydrates but such a ration would lead to trouble as the lack of animal matter always induces feather pulling and like vices.

A small quantity of "Beet Pulp" was fed to the birds in crate No. 5 to decide the worth of a substitute for green feed. The result, however, was not encouraging. It was apparently unpalatable and the birds consumed so little that no advantage could be shown for the feeding.

In giving the results for the different rations it should be borne in mind that the duration of the experiment was twenty-one days and that on the market the birds before the feeding were worth 15c per lb., and after being finished they brought 25c per lb. The costs are worked out at price of grain at the time, but the number of pounds of feed required to produce one pound of gain are in each case given so the cost at present local prices may be worked out.

Ration No. 1.—Gained 23 lbs., consumed 70 lbs. feed; required 3.4 lbs. feed to 1 lb. gain. The cost of each pound of gain was 12.5c. The net profit for the 12 birds was \$6.49.

Ration No. 2.—Gained 32 lbs., consumed 80 lbs. feed; 2.5 lbs. feed to 1 lb. gain, at a cost of 6.2c; net profit was \$9.36.

Ration No. 3.—Gained 16 lbs., consumed 67 lbs. No. of pounds fed for one pound gain 4.2, at a cost of 9.4c; net profit \$5.60.

Ration No. 4.—Gained 19.5 lbs.; 72 lbs. eaten; 3.7 lbs. feed to 1 lb. gain; cost per pound gain 8.7c; net profit \$6.74.

Ration No. 5.—Gained 26.5 lbs.; 80 lbs. feed consumed; 3 lbs. feed to 1 lb. gain; cost per pound gain 6.7c; net gain on crate, \$8.52.

Conclusions—It Pays to Finish

The wide rations without tallow were most profitable; the narrow most expensive. It did not pay to add tallow at 13 cents per pound to the ration.

The extra finish usually looked for on tallow-fed birds was not apparent on Crate No. 1 when dressed.

At the prices ruling during the experiment, such feeds as bran and flour are not satisfactory if fed alone, though often recommended for crate feeding.

Apparently the wider the nutritive ratio of the grains in the mixture the better. There seems no likelihood of getting it too wide if milk is used.

Should milk not be used with a wide ration there is a probability that feather plucking and other vices might become prevalent.

The advisability of "finishing" poultry before marketing is apparent and where skimmed milk is available it can be put to no better use than to fatten what fowl there are available before killing, as it will be seen from the above table that almost any ration will improve the bird in the fattening crate, but the wide ration is preferable, if the necessary ingredients are obtainable.

The usual methods and crates were adopted as described in Dominion Experimental Farms Bulletin No. 88.—Experimental Farm Note.

H H H HIGH HOW HOGS ARE TAMWORTHS

MOTTO IS:

HARDIER — HEAVIER — NO HIGHRE

TAMWORTHS are of excellent flavor and are suitable for market at 6 months of age and the ideal bacon hog of the day.

TAMWORTHS have a super-abundant vitality, are good grazers and most economical feeders.

I have a few head boars of excellent merit.

BUY BEFORE THEY GO HIGHER

THOS NOBLE

DAYSLAND — ALBERTA

HE IS LESS DANGEROUS



Eliminate the danger and increase the value of the young bull by dehorning him. The most successful dairymen, drovers and shippers use and recommend the **KEYSTONE DEHORNER**. Write for booklet.

R. H. McKENNA,

219 Robert Street, TORONTO.

BELGIANS

If you are thinking of buying a young draft stallion of quality, see ours before buying.

OHBERG & NYBERG, LTD.,

AMISK :: ALBERTA
Breeders of Pure-bred Belgian Draft Horses

LEW HUTCHINSON

Breeder of Aberdeen-Angus, Berkshires, Suffolk Sheep and Buff Orpington Fowls.

I am entering four nice heifers in the forthcoming sale at the Winter Fair, Calgary, in December.

An outstanding **SHEARLING RAM** for sale. A prize-winner at all the big Western Fairs.

DUHAMEL :: ALBERTA
PHONE 2304, CAMROSE

CLOVER LODGE STOCK FARM

BERKSHIRES AND YORKSHIRES
Stock for sale—all ages—both sexes.
Booking Orders for Fall Delivery.

S. C. SWIFT

VIKING :: ALBERTA

**OLD ENGLISH SHEEP DOGS
PUPPIES FOR SALE**

from Show and Working Stock

PARKER,

1116 11TH AVENUE WEST,
CALGARY

SWEEPSTAKES DUROCS, 1917

Over All Breeds—Everytime—Everywhere

NEW BLOOD FOR YOU

WHY KEEP GRADE SOWS?

Consider Prices, Gov. Insurance, Etc.

O. & O. C. MILLER, Strathmore, Alta.

**RASH'S RHODE ISLAND
REDS**

S. C. Cockerels, from prize-winning stock. Fine, big, typey fellows, with lots of vigor and brilliant color. Bred for egg production.

Price \$3—two for \$5.

YOURS FOR A SQUARE DEAL

R. L. RASH,

PURPLE SPRINGS — ALBERTA

REGAN BROS.,

10726 78TH AVENUE

EDMONTON :: ALBERTA

**WHITE WYANDOTTE COCKERELS
FROM TRAP-NESTED STOCK**

**LAYING STRAIN COCKERELS
FOR SALE**

White Wyandotte and Buff Orpingtons, \$3.00 each.

My pen of six in Edmonton Competition took first place in value of eggs laid—\$30.30 in 11 months.

C. C. EWING

LACOMBE :: ALBERTA

RATION FOR ONE HEN COSTS \$2 A YEAR

The question before all poultry raisers is how to feed their chickens more economically and yet get satisfactory results. In making changes in rations, one must remember that any quick or marked changes will have a bad effect on the hen. Changes should be made gradually. It takes a month for a hen to respond to a new method of feeding and if this new method can be adopted gradually no ill effects are likely to follow. Frequently a new ration is criticised, when the fault is not with the ration but the feeder in making the sudden change. Where corn is available good authorities recommend corn, 2 parts, and wheat, 1 part for scratch food. This constitutes two-thirds of the ration. A mash consisting of equal parts by weight of bran, shorts, corn meal and beef scrap is recommended for the rest of the ration. At present prices the scratch food mentioned will cost about \$4 a hundred and the mash about \$3 a hundred.

If a hen requires 70 pounds of feed per year, 50 pounds scratch food and 20 pounds mash, the cost for grain and mash would be \$2 and 60 cents respectively. Thus the total food cost per hen per year would be \$2.60.

By introducing oats into the ration, the cost can be reduced. With oats at 2 cents a pound, a scratch food of one-half oats can be made which will cost 3 cents a pound. This will reduce the cost of the scratch food 50 cents a year for each hen. The mash can also be reduced in cost by substituting middlings for the corn meal. It is doubtful whether wheat should be used for poultry feeding. The by-products, such as bran, and shorts, are still available at comparatively reasonable prices. By careful figuring, the cost of feed per hen need not be over \$2 a year. If a hen lays ten dozen eggs, the feed cost of a dozen eggs need not be more than 20 cents.

PROFIT IN FATTENING CHICKENS

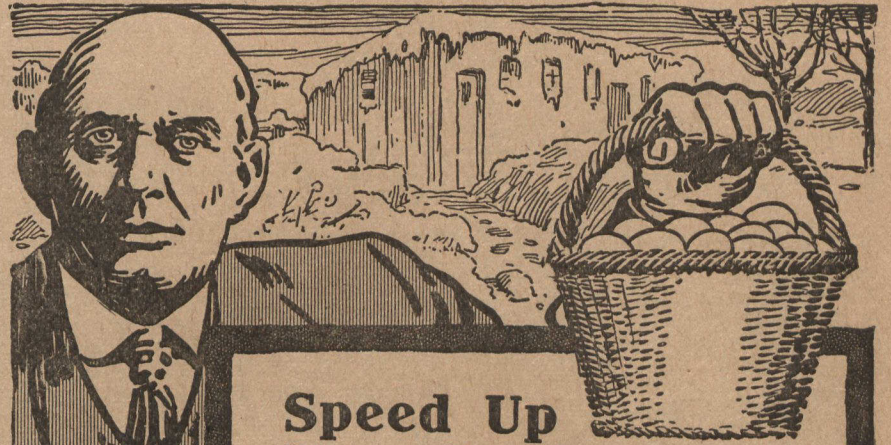
It is just as important to fatten chickens sent to the market as it is to fatten hogs or beef cattle. In fact, when the chicken comes from the range it is in the proper condition to put on economical gains. Students in the Poultry Department of the University of Missouri found in recent tests that chickens will gain about 23 per cent. in 12 to 14 days' feeding. That this gain is economical was shown by the fact that the grain required to put on a pound of gain was approximately 3½ pounds.

The total cost of a pound of gain with corn meal at \$2.25, bran at \$1.50, middlings at \$1.75, and sour milk at 20 cents a hundred pounds, was eight cents. Even at the present high price of feeds, economical gains can be made.

The ration consisted of corn meal 7 pounds; shorts, 3 pounds, and bran, 1 pound. To every pound of this mixture, two pounds of sour milk was added. This wet mash was fed twice daily. The length of the feeding period, which was ten minutes the first day, was increased a minute a day as the period advanced. The chickens were confined in coops 2 by 2½ feet square, each coop having a wire bottom. Slats were placed up and down, 1½ inches apart, permitting them to reach the food which was placed in a trough outside. The close confinement not only discourages exercise, thus promoting gain, but the inactivity causes the tendons to soften. The fat is distributed through the muscles by the fattening process and the result is a luscious flesh which comes only in a finished product, put on cheaply.

GREEN FEED FOR POULTRY

Poultry need green feed. Mangels, beets, carrots and cabbage are very good. These furnish food and act as a conditioner. Hang them up or nail to wall the proper height so birds can easily reach them, this will keep them clean and at the same time be convenient for the birds.



Speed Up Your Laying Hens

Eggs are selling at way-up prices. This is your egg harvest time. Put your hens in laying trim by feeding

**DR. HESS
POULTRY
PAN-A-CE-A**

Feed your hens and pullets Pan-a-ce-a to help them turn the greatest possible amount of their feed into eggs. Feed Pan-a-ce-a to liven up the dormant egg organs and make them active. Feed Pan-a-ce-a to all your poultry to improve the appetite and digestion, to enrich the blood, to make them healthy.

There is a dealer in your town that will supply you with Dr. Hess Poultry Pan-a-ce-a. If it does not make your hens lay, he will refund your money. Packages, 35c, 85c and \$1.75; 25-lb. pail, \$3.50.

Dr. Hess & Clark, Ashland, Ohio

DR. HESS STOCK TONIC
A Conditioner and Worm Expeller

Dr. Hess Instant Louse Killer Kills Lice

CLOSING OUT SALE

SPECIAL BARGAINS IN POULTRY

As I have decided to dispose of my poultry plant I am offering my **TRAP-NESTED BREEDING STOCK** at heavily reduced prices.

Barred Rocks, White Wyandottes, Buff Orpingtons, Single and Rose Comb Reds, Mammoth Pekin Ducks, and Toulouse Geese are to be sold at the following prices: Cocks, \$2 each; Hens, \$1.50; Cockerels, \$2; Pullets, \$2, or 5 females and 1 male, \$10. Drakes, \$1.50; Ducks, \$1.50; and Toulouse Geese, \$3 each.

ALLAN R. GILLIES

BONNIE BRAES : CLOVER BAR : ALBERTA

PHONE R3707

Prompt and Efficient Service Follows Enquiries through
The "Farm and Ranch Review."

Pacific Coast Excursions

Vancouver or Victoria

FIRST CLASS ROUND TRIP TICKETS GOOD UNTIL
APRIL 30th, 1918, BY

**GRAND
TRUNK
PACIFIC**

Grand Trunk Pacific Ry. For Only \$40

(FROM EDMONTON OR CALGARY. Proportionately Low Fares from Other Points)

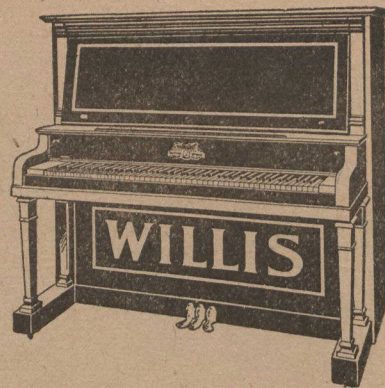
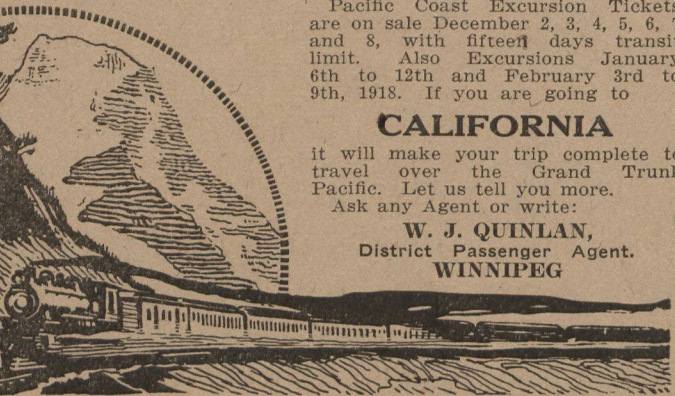
Your long planned Pacific Coast trip will be a magnificent experience when you travel over the Mount Robson—Skeena River route. When you have completed a rail trip surpassing imagination, your ticket still includes a wonderful steamship journey down the tranquil waters of the "Inside Passage" through the soft Pacific air. Tickets include steamship meals and berth.

Pacific Coast Excursion Tickets are on sale December 2, 3, 4, 5, 6, 7 and 8, with fifteen days transit limit. Also Excursions January 6th to 12th and February 3rd to 9th, 1918. If you are going to

CALIFORNIA

it will make your trip complete to travel over the Grand Trunk Pacific. Let us tell you more. Ask any Agent or write:

W. J. QUINLAN,
District Passenger Agent.
WINNIPEG



WILLIS ART PIANO

PEERLESS IN TONE, TOUCH and FINISH

Used and endorsed by leading musicians and found in homes of culture and refinement from Coast to Coast.

On account of its matchless tone, it has become known all over the Dominion as

CANADA'S BEST PIANO

No better Piano can be made. Sold direct from the Factory, thus saving you middlemen's profit, and agent's commission. We can save you from fifty to one hundred dollars on an instrument.

WILLIS AUTO PLAYER PIANO, SIX POINT MOTOR ALL METAL ACTION THE MOST PERFECT PLAYER MADE IN CANADA.

Write for Catalogue, mail orders receive prompt attention. Prices the lowest, quality considered. Terms arranged to suit your convenience.

We are still selling Pianos at the old price. Order before the advance goes on.

LARGEST EXCLUSIVE PIANO PLANT IN CANADA.

ESTABLISHED 1877.

WILLIS & KNABE

SHOW ROOMS: 325 8TH AVE. WEST

CALGARY

W. M. HOWE, MGR., ALBERTA BRANCH

**E
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E
S**

A CHRISTMAS GIFT GREATLY APPRECIATED BY MOST FATHERS AND MOTHERS

Is a pair of glasses made to order for reading and sewing or combined with far and near sight in one glass. Our special giftcard enables you to make the presentation and have their eyes thoroughly examined later when in town.

A GIFT WHICH WILL GIVE THREE YEARS OF PLEASURE.

ALBERTA OPTICAL CO. LIMITED

128 EIGHTH AVENUE WEST :: CALGARY



WHERE DO YOU KEEP YOUR SAVINGS?



Do you keep them in a safe place?

Do they earn a good interest rate?



The Province of Alberta will take care of your Savings and pay you interest **AT THE RATE OF 5% PER ANNUM FOR EACH AND EVERY DAY** that they are on deposit.

If you wish to withdraw your money at any time you can get it back **AT ONCE** with **FULL INTEREST ADDED**.

This Savings plan is **SAFE, SOUND** and **CONVENIENT** as Savings Certificates are backed by the assets of the Province in addition to the General Revenue Fund.

A **STRIKING FEATURE** of the plan is the promptness with which the Savings Certificates are issued and repaid and enquiries answered.

For particulars write or apply to:—

W. V. NEWSON,
Deputy Provincial Treasurer,
EDMONTON, ALBERTA

In The Country Home

EVERYWHERE, CHRISTMAS TO-NIGHT

Everywhere, everywhere, Christmas to-night!

Christmas in lands of the fir tree and pine,
Christmas in lands of the palm tree and vine;

Christmas where snowpeaks stand solemn and white,
Christmas where cornfields lie sunny and bright;

Everywhere, everywhere, Christmas to-night!

Christmas where children are hopeful and gay,

Christmas where old men are patient and grey;

Christmas where peace, like a dove in its flight,

Broods o'er brave men in the thick of the fight;

Everywhere, everywhere, Christmas to-night!

For the Christ-child who comes is the Master of all,
No palace too great and no cottage too small;

The angels who welcome Him sing from the height,
"In the city of David a King in His might."

Everywhere, everywhere, Christmas to-night!

Then let every heart keep its Christmas within,

Christ's pity for sorrow, Christ's hatred for sin,

Christ's care for the weakest, Christ's courage for right,

Christ's dread of the darkness, Christ's love of the light;

Everywhere, everywhere, Christmas to-night!

So the stars of the midnight which compass us round

Shall see a strange glory, and hear a sweet sound,

And cry, "Look! the earth is aflame with delight,

O sons of the morning, rejoice at the sight,"

Everywhere, everywhere, Christmas to-night! —Phillips Brooks.

THOUGHTS OF THE SEASON

For nineteen hundred and seventeen years the wonderful message of the angels has come down the ages to the people of the world. The world and its people have changed, and the Yule-Tide has found them in the ever varying course of history, —in peace and prosperity, in sorrow and sadness, weal and woe, but the words of the tidings are still unaltered, and with the distant throb of war finding its echoes in our hearts, we now hear them—"Peace on Earth, Good Will toward Men".

What of the message, can we pay heed, or shall we reject this festival, as something we find incongruous to all around us, as something to which we can no longer respond? In 1914 we found ourselves face to face with the saddest Christmas imaginable. Our best and dearest, who should ordinarily have been united in this greatest of family festivals, were away in distant lands fighting or preparing to fight their country's battles, and already there were vacancies in many a family circle that could never again be filled. In 1917, three years later, we are still at war, and hardly a family but has sent one or more to take a part in the maelstrom and inconceivable horror of war as waged in modern times. We do not know what is before us beyond the fact that there must be a tremendous struggle, with the con-

sequent sacrifice and sorrow, for the freedom of all liberty loving people of the world is at stake and Might must be overcome by Right.

The very agony, however, that we have passed through and are passing through now is as a refining fire, and has taught us many things, among others to appreciate Christmas and its message. We cannot reject it, for we need it more than ever before, but we approach it from a very different viewpoint to formerly. We need not, and we do not refrain from giving the old time greeting, "A Happy Christmas and a Bright New Year," but the words stand for infinitely more than they

are still alive, in the world, and though the war cannot stop on Dec. 25th, the spirit of Christmas will make itself felt, even in the far-away trenches. No one perhaps has ever portrayed the Christmas spirit more forcibly than Charles Dickens in his "Christmas Carol." Even Scrooge the flint-hardened miser and egoist could not resist its appeal, and a softening ray made itself felt in his selfish life. We then can pay heed at this season and be thankful for that message of peace, for that message of love that comes to the world, and which comes home to us the more, for we have learned to appreciate its true value.—Annie A. Genge.



Christmas Morning

CHRISTMAS, 1917

LEONORA R. BARRETT, Mirror, Alta.

Peace on earth, good-will to men! How ghastly incongruous seems this message of the angels with a world in arms, and every fiendish art which science can devise and devils inspire being employed to terrorize and annihilate. Perhaps a sadder Christmas never dawned than this one of 1917, and if the war lasts over another year, that of 1918 will be sadder far than this. Few of us can escape, consciously or unconsciously, the famine-stricken populations of Poland and Belgium, the thunders of the Western front, and the reverberation of artillery among the snows of Alpine peaks and passes. Yet amid this tenfold inferno where Death and Human Anguish hold high revel, this song of the old-time comes as the only ray of hope

and the one bit of glory in the maddening gloom. Out of the ruins a saner world will be born, and men will turn with revulsion from instruments of destruction. In that glad time the statue of the Christ will not be found in the Andes alone as marking the boundaries between nations. Forts and their pointing cannon will give place to the figure of Peace, and the symbols of distrust and hate will be replaced by the extended olive branch.

Nations Born Again by Common Peril

But that day, though foretold by the seers of old, is yet far distant. The god of War is still the deity of the Teuton, and while it is pleasant to dream, inactivity is criminal. We are told that there were those in England who, while they believed that this war was impending, took refuge in a false safety, ostrich-like hiding their heads in the sand. When the war had been in progress for weeks the parks were still frequented by the idle and luxury-loving. The pounding down of the forts of Antwerp were only distant echoes, and the thunders of the Marne, could they have heard them, would have meant nothing except perhaps a disagreeable noise. Nothing but German bombs could disturb their self-complacency, and bombs they got. When a realization of what it all meant dawned upon them, a new England was born. Sorrow and sacrifice strengthened and purified. Nonessentials melted away and consecration to one great Cause marked all classes, gentle and simple.

In France the change took less time. The enemy was within the gates very soon after war started, and Paris was threatened from the outset. The spirit of this great people has never been excelled in all history, and the defence of Verdun stands unequalled. The story of Leonidas and his little band at Thermopylae has thrilled the student in all the succeeding ages, but Verdun, with the immortal watchword of the French soldier: "Ils ne passeront pas," will have even a greater place in the annals of the glorious deeds of mankind. Out of one Red Cross train which passed through Switzerland from the Verdun region, bearing four hundred wounded soldiers, three hundred were insane. In the face of the horrors which deprived men of reason, they held the line. "They shall not pass!" Do you mean to tell me that patriotism and devotion like that does not purify and re-vivify a people?

A Swiss economist, describing to a responsible Boston weekly the attitude of his country to the war which is raging all around it, said: "Amid the terrible suffering of the belligerent countries we have no moral right to prosperity. We are ready to undergo all kinds of privation compatible with our national existence." No moral right to prosperity! And Switzerland is neutral. That was the feeling, too, in the deeper nature of the true American during those three years when the United States held aloof, until it came as a relief to the conscience of many people that they were to share the sorrow and lay their gift on the world's altar of Freedom.

Inactivity Is Criminal

Now what of us who are an ally of the countries that are straining every nerve in one supreme effort? Many of us have given those dearer to us than our own lives, and at the same time are sewing and knitting for the other mother's son and the other woman's husband. But there are also some of us who have no one near to us in the firing line. Our family life goes on as usual. With higher prices for our products, our prosperity has increased. Luxuries have come our way that before the

war we enjoyed only in dreams. What moral right have we to leisure and abundance in the face of starving and famished Belgium and Poland, shell-torn and heart-broken northern France, rationed and stricker England, and the orphans and widows of Canada? How do afternoon bridge parties, and days spent in elaborate embroidery and crochet for Christmas gifts, appear when the need for Red Cross socks is so real? How do three or four-course dinners look when what of Europe is not in the grip of famine is on rations?

Land Service Can Be National Service

It is a platitude to repeat that a great crisis is upon the world—that the fate of liberty—yours and mine—hangs in the balance. We on the land are rendering national service as great as if we were at the firing line if out of a pure heart we are putting forth every effort to increase the world's food supply, and making a sacrifice to that end. But if we see in this war only a chance to make money, and take advantage of the world's necessity for food to remain in safety and hoard or spend in luxury our miserable dollars, then we are in exactly the same class as the profiteer whom we execrate—creatures to be pitied, not of angels, but of devils.

In this welter and chaos, selfishness should be purged from us. If it is not, and we go on our way blind, deaf and dumb to the call of the hour, then we shall emerge from it all far worse than August 4th, 1914, found us. The burden of the angels' song will some day be realized, but we can hasten it by personal sacrifice. Is it not worth while to belong to the company of the great and good who are working with hand and brain to bring about that glorious end?

GIFTS AND GIVING

There is quite a little pleasure at this season of the year for the true and appreciative shopper, by this, of course, being meant, the person who can wander through the stores at a quiet time of the day, thoroughly enjoy the artistic beauty of their offerings, buy within her means, cull many and varied ideas from the fascinating novelties the showcases are filled with, build castles in the air innumerable as to the gifts that might or might not be invested in, and—in spite of all, come away in a perfectly calm frame of mind and without having been seized with an insatiable desire to buy up the stock entire and empty the stores and one's pocket book simultaneously and suddenly.

In a Christmas mood, I recently made the round of the stores, and, as a result, would like to pass on the ideas I came away with, or at least a few of them. One store window was filled with sport sweaters, caps and scarfs—an ideal gift for a young girl. Passing on, I stopped to look at the waists of many varieties and designs, a waist, or a waist-length is always acceptable, the latter especially so to the home dress-maker, and, in connection with same, one at once thinks of fancy collars and the new collars and jabots combined, to wear with fall and winter coats and suits. Perhaps the most fascinating corner of a general store at the present is that occupied by fancy goods, and here one has much food for thought. Knitting has been so extensively revived, and is now so generally understood that knitted gifts are very popular,—scarfs, slippers, items for the wee baby's wardrobe, etc., while cretonne knitting and shopping bags, large and small finished with embroidery ring handles are seen everywhere. Crochet goods are also well to the fore, and a quickly made and inexpensive gift is the crochet bath slipper, the half foot made of slipper thread. China and household essentials afford an endless variety of choice, depending on the value of gift planned, and furniture and musical instruments offer many possibilities. Music will probably appeal to the music lover, and books for winter reading are appre-

ciated by all. For the owner of a gramophone new records are a handy gift.

I wonder, how many of us have vague regrets for the past moments spent in making very pretty but very useless Christmas gifts. I wonder how many of us still have some of these same dainty articles—too dainty for ordinary every-day service, cached away in a quiet corner of our trunk in the attic. We haven't as much time as formerly to make gifts. Our fingers are too busy knitting and sewing for our soldiers to be exercised on elaborate fancy work. We will, however, no doubt, find a few moments to make a gift or two, and let us try to make it practical as well as pretty, and so save it from the ignominious fate above mentioned. Don't be sparing in generosity, but be wise in exercising that quality. Give where affection is felt and don't let your giving correspond to an ex-

have to remember that we are one and all individually responsible for our actions at this most critical time in the world's history. All the time and energy being expended by the Food Controller and his staff of experts are wasted, if we will not do our part in giving them the most able and willing support in whatever direction needed. We cannot make the season an excuse for making too free use of those items of food we are asked to conserve. The fact that we are called on to save our money does not make us despise things of art and beauty, even if they are temporarily at least beyond our means. Hence, no doubt, the appreciative and enthusiastic domestic science expert will still be on the lookout for new and interesting recipes, but, should they appear to demand too much for present requirements, why, paste them in your cook books—for future reference. Remember,

groups, ch. 1, miss 1 st., and work d. in each remaining st. except last one. **4th row:** ch. 1, 2 tr. in centre st. of tr. group, ch. 3, 2 more tr. in same centre st., 4 ch., repeat until 9 groups completed, ch. 1, 1 d. in outer loop of each st. in previous row. **5th row:** ch. 1, repeat 4th row, making fans in centre of previous ones, and 5 ch. between each, ch. 1, 1 d. in outer loop of each d. in previous row. **6th row:** ch. 1, 9 tr. in fan, ch. 3, take up 2 ch. below with d., ch. 3, repeat around row, ch. 1 and ds. as before. **7th row:** ch. 3, 1 d. in 5th tr. of first fan, 10 ch., d. in 5th st. of next fan, repeat along row, 4 ch. and ds. as before. **8th row:** 2 ch., 12 tr. in each loop all around, increase as usual and ds. **9th row:** 1 ch., 1 tr. in each of 1st 3 sts., 3 chs., 6 trs., 3 chs., 6 trs., repeat to complete row, ch. and ds. as usual. Make fans as before in each loop of 3 chs., making picots in outer row completing fans.

Second side is same as first, and two are joined together. Top is formed by double trebles with chs. between and edging similar to fan pattern.

Crochet and Ribbon Bag. About half a yard of 6 in. wide ribbon, is required, and ball of silkine. **Top of bag:** Attach thread, ch. 8, double into ribbon, repeat all round and join. **2nd row:** ch. 4, 8 trs. into loop, ch. 4, d. into next loop, ch. 4, 8 trs., and repeat around. **3rd and consecutive rows** made of 8 chs. and ds. to form mesh, about 5 rows of mesh in all. Make beading of double trebles and chains, and above repeat fan patterns of 2nd row, and 3rd row. Repeat 2nd and 3rd row twice. **Bottom of bag:** Ring, and crochet into it 6 groups of 3 trs. with 2 chs. between each. **2nd row:** 6 groups of 6 trs. in each loop of chs. in previous row. **3rd row:** ch. 8 and 6 loops of 8 chs. over 6 fans in 2nd row. **4th row:** ch. 3 and 4 tr. in loop, ch. 3, 4 more trs. in loop, ch. 3 and double above previous doubles, ch. 3, 4 trs., etc. **5th row:** ch. 3, tr. into 1st st. of group of 8, ch. 3 and 4 trs. into centre of group of 8, ch. 3, 4 more tr. into centre of group of 8, 1 tr. into 8th st. of group of 8, ch. 3. **6th row:** fans of 8 tr. (4 trs. with 3 ch. between) into centre of fans already formed and into loops of chs. **7th row:** fans into centre of previous fans with 3 chs. between. **8th row:** repeat 7th, with 4 chs. between fans. **9th row:** repeat 8th with 5 chs. between. Sew on to ribbon, and put tassel at bottom.—Alberta.

Wall Paper Portieres

Dear Peggy Practical:—For those who do not crochet or tat, it is sometimes hard to know what to make for Christmas gifts that are not expensive and are still novel.

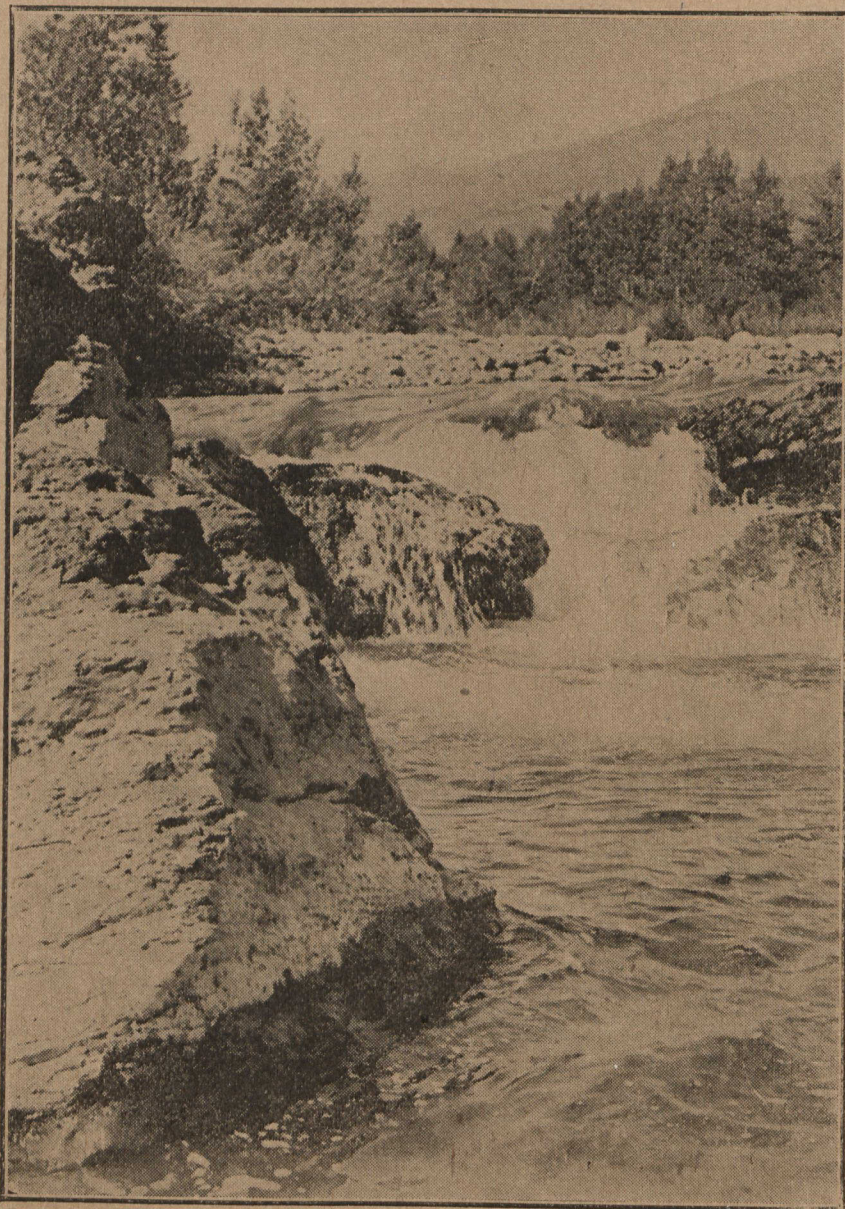
Have you ever seen wall paper portieres? They cost very little, but the gentleman who showed me how to make them sells all he can make for \$15 each.

Take pieces of wallpaper 13½ ins. long, 3½ in. wide at one end and tapering to a point on the other. Roll tightly and evenly over a coarse knitting needle, starting with the wide end. Then paste the point to keep it from unrolling. String on ordinary twine, dip in clear varnish and hang up to dry.

To make the portiere, string on double linen thread, alternating coarse, round glass beads with the wallpaper beads. Make the strings of three lengths, about 6 ft. for the 3 outer strings, 4½ ft. for the next three, and 1½ ft. for the centre ones. Fasten to a wooden pole by means of small brass hooks.

To finish the ends of the strings, cut a few of the wallpaper beads in half and use a glass bead and a half-bead in clusters of three.

For those who do not care to cut the wallpaper strips, they can be bought at \$1 per thousand. The glass beads cost 25c a hundred, and the same company make a machine (60c) for rolling the beads. The cheapest way to get the wallpaper strips is to get a large sample book. In this



Albertan Mountain Scenery, on Highwood River, west of High River.

change column in a paper. Plan ahead, or, as one of our readers said in connection with our threshing letters: "First plan your work, and then work your plan."

Those who can will be wise to study the stores, and all would be equally well advised to study the catalogues and advertisements in good time. Ninth hour giving is a fearfully nerve racking business, and ninth hour present sending is likely to steal away the Christmas holiday from a great many people who have earned it only too well.

There is one fact we want to keep before us rather more prominently than ever at this season, and that I want to mention, even at the risk of being labelled the proverbial "wet blanket." It is, as probably you have surmised, the urgent need for economy of every kind, and more particularly as applied to our kitchens. We can enjoy a festival without transforming it into a feast, and we

we are all pledged to save, whether we have a pledge card hanging in our house or not. We are, as it were, on our honor.

Best wishes for a happy Christmas to all our readers, from PEGGY PRACTICAL.

Dear Peggy Practical:—I am not an expert at writing out crochet designs, but am sending you two little bags that I made last year (see pictures), and here give the particulars as to way they are made, or the best particulars I can send you. No doubt they will serve their purpose.

Crochet Bag. Use No. 5 mercerized crochet thread. The bag takes rather more than 1 ball.

Make ring about 10 chains. **1st row:** 3 chains, 35 trebles, in ring, join **2nd row** ch. 1, double in outer loop of each st, join. **3rd row:** ch. 1, 1 tr. in each of 1st 3 sts., ch. 3, 1 tr. in each of next 3 st., ch. 3, repeat until 9

way you get a large assortment of colors and your portiere is much nicer.—M. S. C.

Collars

Lately I have been making collars for Christmas presents. One has corners of filet crochet with a narrow filet crochet edge. Another has a simple tatted edge and a tatted medallion in each corner.—M. S. C.

Twine Case

Dear Peggy Practical:—I am enclosing two little Christmas hints, which I hope will be of some use.

Use orange-colored crochet cotton, or "Silkine." Make a chain of six stitches, join, fill with doubles, then work around and around until you have a flat mat, as large as the diameter of your ball. Crochet without widening to make a bag large enough to hold the ball smoothly. Place the ball in the bag, start the cord to unwind from the centre, putting the loose end through the tiny hole in the bottom of the bag. Cut a pattern of an orange leaf and do three leaves in crochet using green silk or cord, or if preferred cut leaves from green felt, and work around the edges in buttonhole stitch. Sew these leaves neatly over the drawn-up part and let them hang down on the orange, taking a few stitches with a fine needle to hold them in place. Hang up the orange with a green satin ribbon.

Collars

One yard of Persian lawn will make four nice collars. Cut out two rather large collars, suitable for a coat. Hem these nicely either by hand or by machine, sew the lace on always by hand. Finish the neck with a bias band. Two small collars can also be made the same way, to be worn with a blouse. These collars can all be made from a sailor collar pattern by simply changing the style to suit your taste.

Best wishes to the Editor and readers from "A Maid of Eighteen."

Making Xmas Gifts

Dear Peggy Practical—Of all the Christmas gifts I have made or seen made, the idea generally is to make something useful and there are so many, many things in this class that one can make and they are all good and always welcomed to the receiver. But often a gift that is quite useless is greatly appreciated by the receiver and in the case of children is not exaggerating to say they love to be so remembered. Sad to say the walls of the boys and girls' rooms, especially on the busy farms, are generally quite unadorned, so I am about to tell of a pretty little gift that can be made by mother for the children's room, or by the children for mother's room, without the cost of one penny—a useless gift to be sure, except that it serves to brighten the room.

From old seed catalogues, magazines, etc., one can cut bright and pretty floral pictures or some attractive black and white ones, then fit these to pieces of broken window glass any odd shape will do; only consider the shape in relation to the picture so that the artistic value of the picture will not be spoiled by cutting it to fit the glass. Now take a piece of pasteboard and also cut to fit the piece of glass being used; punch 4 holes in the middle of the piece of pasteboard and run a string (a bright colored one is best, or piece of ribbon) through these holes so that both ends are on the outside. Then fit glass, picture and pasteboard together and bind with narrow strips of colored paper or cloth (cretonne is pretty, also wallpaper). A paste made of flour and water works well. Any number of pictures up to seven or eight may be put on the one string or ribbon; the size will govern this. A knot should be tied between the pictures so that they will not slip.

Pot Holder

Dear Peggy Practical: One of the first Christmas presents I remember making was a pot holder for mother. It is made in this way. Take an old stocking leg and fold it up into a pad, measuring about six by four inches. Overcast all the edges together and sew the loop from a hose supporter on the corner to hang it up by. These pot holders can be washed when they get dirty.

Novelty Emery Cushion

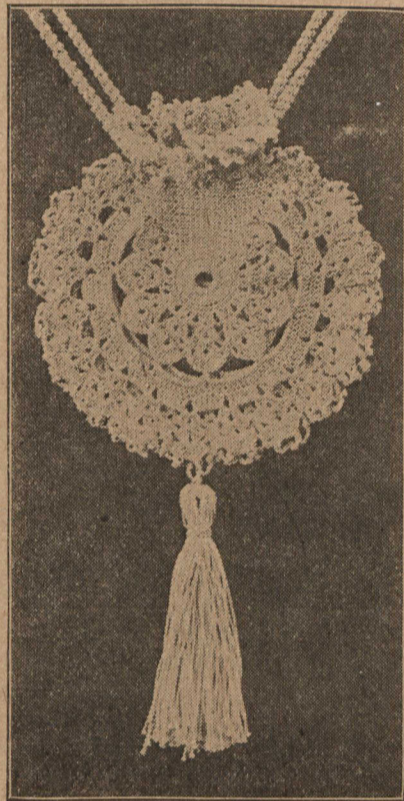
Make a small round cushion and fill it with emery powder. Cover with pretty silk and glue it into a half walnut shell.

Rose Haw Chains

Did you know that the rose haws make very pretty beads? I gathered a lot of haws about the end of October one year (any time after they are ripe will do), and threaded them on a string with a darning needle. Then I hung them up to dry for about six weeks, after which I re-threaded them with small beads between.—A Young Housekeeper.

Baby Slippers

Dear Peggy Practical—I am sending you a description of the way I make baby's slippers. I use slipper



Dainty Crochet Handbag or Purse.

thread, and proceed as follows: Cast on 24 stitches on one needle. Knit one plain row. Next row, knit one, make one, then knit plain to end of row. Repeat this last row until there are 34 stitches on the needle, then knit 5 plain rows. Next row: knit 1, knit 2 together, knit plain to end of row. Repeat this row till there are 24 stitches on the needle. This completes the sole of the shoe, and you must begin the "upper". Knit one plain row, and then cast on 8 stitches at the end. Knit 1 plain row. Next row, increase 1 stitch at the beginning of the row, rest plain. Continue these two rows till there are 38 stitches on the needle, then knit 2 plain rows. Now cast off 20 stitches (the end row you cast on the 8) and on the remaining 18 knit 2, purl 2, for two rows. This makes a block pattern which must be continued for 6 patterns (24 rows). Cast on 20 stitches, knit 2 plain rows. Increase at the end of the next row (toe and alternate rows until 32 stitches remain. Then cast off and sew up the shoe neatly. For the strap cast on 15 stitches on one needle, then pick up 16 stitches across the back of the heel and cast on 15 more. Put these on two needles. Knit 2 plain rows.

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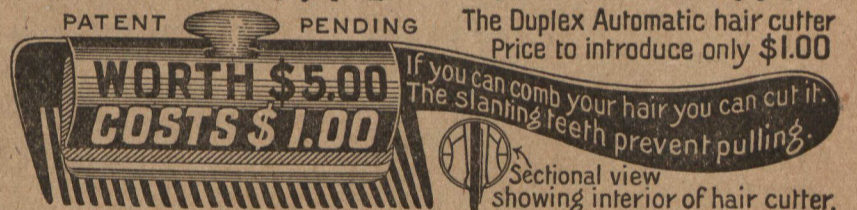
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Women and Children Urgently Need Food

There is a serious shortage of food in Britain, France and Italy, and stringent food regulations are in force.

The enormous demands of the armies for food must be supplied. Soldiers cannot fight to victory on empty stomachs.

And the women and children overseas! They must not be denied the urgently needed food.

The Allies look to United States and Canada to meet the critical situation. Increased production of grains, beef and hogs—particularly hogs—is a military necessity.

European Herds Decreasing

At the present time, there are 115,000,000 fewer animals in the herds of Europe than before the war. In hogs alone, there is a shortage of 32,425,000.

Realizing the urgency of the situation, the Governments of the United States and Canada are doing their utmost to secure increased production.

The Dominion Government is co-operating with the Provincial Governments to get every province to largely increase its production of hogs in 1918.

Steps have been taken both to safeguard and encourage the producers.

Government Control

The Packing Houses are now under Government control and their profits are restricted. The hog producer is assured *his fair share* of the price paid by the consumer.

The Flour Mills are under a form of license and will be operated with restrictions on profits. Bran and shorts will be available at reasonable prices.

This year's huge United States corn crop will be available to Canadian producers. It is estimated

at 600,000,000 bushels greater than last year's and there will be a large surplus for export. This corn crop is under effective United States Government control to prevent speculation.

The buying of the meat for the Allies will all be done by the one commission representing the Allies, which will be an influence in stabilizing the market and preventing wide fluctuations in price. This fact, considered in association with the great meat shortage in Europe, justifies confidence in the profitable possibilities of hog raising in 1918.

Every Pound of Pork Needed

Every pound of pork that can be raised is urgently needed. The troops alone must have millions and millions of pounds of bacon, the British Army ration calling for $\frac{1}{4}$ pound of bacon per man per day.

The people of Canada are heart and soul with the heroic boys fighting and toiling in the mud, rain, snow and cold on the European battlefields.

The women and children of Britain who have sacrificed so much, those of France who have done men's work in factories and fields, and those of Italy, which is now suffering invasion by the German despoilers, all of these, as well as the soldiers need a vast quantity of food that only Canada and United States can supply by greatly increased production.

Save the Young Sows

Young sows which are slaughtered now only produce about 150 pounds of meat per sow. Each one that is bred will produce many times that quantity of meat in 1918.

Dominion of Canada Department of Agriculture

**LIVE STOCK BRANCH
OTTAWA**

Next row, knit 2, then cast off 3 stitches, and continue rest of row plain. Knit 1 plain row, casting on 2 stitches where you cast off 3. Knit 1 row plain and cast off. Sew a button on the strap and a pompom on the toe, then the shoe is finished.—Hint Reader.

MUSIC ON FARM AND RANCH

By Annie Glen Broder

With all the wealth of musical material for the making of oratorios, operas and symphonies, there is no more beautiful theme and no more beautiful use to which music could be put than in sounding the home note and providing the right harmonies to enrich its central idea, i.e. human love and sympathetic means for its expression. From the roof tree and the domestic hearth which had their origin in mutual love diverge, in countless and untraceable directions, myriads of gracious influences that find voice in the happy songs of children, the organ, piano or violin playing of older girls and boys, the rousing refrain of sturdy workers who can take a share in a

enterprise of bold inventors, who have been benefactors to music lovers in distant places by bringing right home to their fireside the records of the world's finest musical performers. Time was when these mechanical reproductions were scoffed at by musicians, but time has proved the benefits to be derived from them, and continual improvement in design brings the reproductions nearer and nearer to the actual impression obtained when hearing the originals. The only remaining danger attached to them is that satisfied with merely turning a handle and starting a tune, the home made music which if not so mechanically perfect is after all the most vital to happiness, should be neglected or displaced. Minnie and Tommy with their little pieces, laboriously mastered perhaps, but increasing in difficulty and improving in quality each year, are, after all, the music makers who mean most in the musical history of the family and who are contributing most to the repute of Canada as a musical nation. The musical youngsters of this generation will be the clever performers and keenly intelligent listeners of the next. The art of listening, paradoxical as it may seem to say so, contributes more than anything to the successful performance of music. Music is so essentially social, it has so intimate and distinct a message to give, that the very spirit of it is deadened or killed outright if the response is unsympathetic. The receiver needs to be attuned to the message.

Develop Musical Power and Appreciation

With every added year it is important therefore that better and better music should be heard and practised and the pleasure of enlarging the powers of appreciation be on the side of pure gain when summing up assets at the end of a year's varied life in the home. No well loved melody hallowed by long association such as Scotch and Irish airs, or tender ballads of the long ago need be dropped out of this scheme of progress. They have not gained their immortality for nothing. May they live for all time and their grateful shadows never grow less! But raking, rasping, raucous tunes, many of them with harsh and unlovely words attached, should be banished to the limbo of things dishonored and forgotten just as soon as the inexperienced who are caught by garish pictures and jingling ditties can be gently induced to prefer beauty to ugliness, refinement to vulgarity. There is a saying that a crooked stick does not know how crooked it is till a straight one is placed beside it, so it is not the fault of girls and boys when they prefer ragtime, if they have nothing else. But once their sense of beauty is aroused and quickened, not for the life of them would the least of them return to the meaningless tinkle of badly written tunes. To avoid these it is by no means necessary to play things that are desperately dry. Many waltzes, quaint dances, and well-known airs prettily played are the most mirthful and joy giving of musical products.

The joy of music, like the joy of religion, is in the heart and the life. It can dare to be merry, it sings because it must and it calls upon all associated with it to pulsate with the same thrill of pure pleasure. Beautiful rhythms are beneficial to sanity and health—in fact there is no end to the value spiritually, morally and physically that can be ascribed to good music. Considerations of this nature must certainly be of importance in every household, and especially in scattered districts where loneliness sometimes tends to encourage morbid fancies, or where members of a family shut in among themselves need an outlet for their young energies and emotions.

Concerted Music in Home Circles

It is "a consummation devoutly to be wished" "that concerted music



Ribbon and Crochet Work combined to good effect.

good chorus; and mutely—but with even more potent effect—the rapt and tender appreciation of the elders. The home atmosphere gathers and combines within its elements a whole world of human interest while, multiplied a thousand fold in a land of liberty and opportunity where happy homes abound, it distributes its manifold benefits into the great world again.

As to the form which musical efforts should take, the choice of ways and means has been considerably extended within the last few years. Anyone within reach of the larger cities and towns of Western Canada can not only hear and participate in admirable church (devotional music) choral society (for chorus work), concerts to hear great artists or good local talent; theatres and movies for bright and sparkling orchestras; but can procure at a wonderfully cheap rate (owing to the active competition in this line of industry) almost every known instrument from a mouth organ to a trombone, from a ukelele (imported from Hawaii) to a piccolo or a grand pianoforte. Moreover, if tired after a long day's work and personal effort would be too arduous Edisons Columbia Gramofonas and Victrolas supply the need; for all manner of music is mechanically provided by the ingenious

THE CHRISTMAS GIFT ABOVE ALL OTHERS



MAKE THIS THE HAPPIEST CHRISTMAS YOUR FAMILY EVER HAD BY GIVING A

HEINTZMAN & CO. PIANO or PLAYER-PIANO

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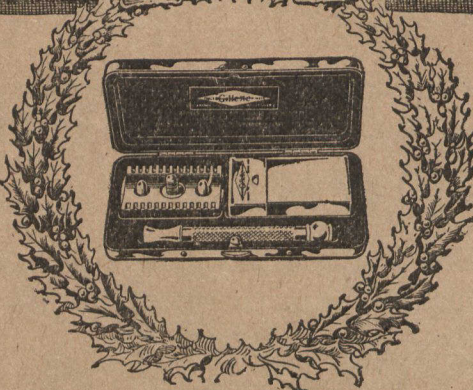
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281

MADE IN CANADA

KNOWN THE WORLD OVER

were more often cultivated in home circles. If each member of the family would take up some instrument and gradually improve upon its use all might enjoy the most delightful combinations beginning with quite easy selections (this class of music arranged for small orchestra is fortunately very cheap) and going on to lovely quartets, quintets, etc. and accompaniments to vocal music which greatly enrich its effect. Violins, cellos, cornets, clarionets and flutes are included among the instruments for which many lively marches, waltzes and melodies are scored. Quite possibly in the learning of these instruments a good deal of teasing will be indulged in at the

musical family that they can hie them to nooks and corners and practise in comparative peace. The poor pianist on the other hand, is a fixture and must be under continual observation; so, taking one consideration with another, there seem to be more reasons for than against a determined effort to make Western Canada famous for its musical families.

Opportunities of Vocal Music

Concerted vocal music would afford a further opportunity to obtain pleasure and earn distinction as soon as the musical members of a household can read at sight sufficiently to sustain simple parts in easy glees and part songs. Meanwhile they could



When the World is White, and Peace prevails.

expense of diligent practitioners (especially upon wind instruments) but this should only add to the spice of life, and if a player makes use of odd moments he can always manage to acquire enough skill to hold his own with other aspirants in the home circle who will be proud and thankful for his services when it comes to exhibiting the family prowess to admiring friends, or parleying with the enemy (no worse let us hope than competing aspirants) in the gate! All players on string and wind instruments though they must ultimately rely upon the faithful pianoforte for support and encouragement have at any rate the advantage of that hard worked member of the

prepare their voices and gain in musical expression by singing in unison choruses. All Anglo-Saxon peoples have an innate love of part singing and choral work which has only to be cultivated to be most enthusiastically enjoyed. When such happy combinations become more frequent, how pleasant it would be, for example, when friends visiting each other could take up their part reading in an evening's entertainment.

It would not be necessary then to go far afield for amusements as the previous pains taken to acquire daily—or whenever possible—increasing skill would meet with ample reward in personal gratification and the admiring recognition of an ever-widening social circle. For all that music means to the individual and the race, the cities, as they look to the land for their hopes of a golden harvest, would also rely for the finest examples of what music can achieve, in the home, to the foothills and the rolling prairies.

HOME MADE SOAP

Put the waste bits of fat or fatty material into a kettle. To purify add a raw potato sliced thinly, boil very slowly till the potato slices are crisp and brown, then strain through several thicknesses of cheese cloth. Dissolve one pound of lye in 11 cups of water and pour it gradually into 7 pounds of the clarified and strained fat, stirring the mass till it is creamy and thoroughly mixed. Pour into molds to harden. This will make a satisfactory soap for dishwashing, laundry and similar purposes.

One of the worst faults that some people have is telling other people theirs.

GARBUTT BUSINESS COLLEGE
- CALGARY -



GARBUTT BUSINESS COLLEGE APRIL 1917

This photo, taken April, 1917, represents about one-tenth of the students who attended the Garbutt Business College during the past year. Service, individual instruction and expert teachers have built it into the third school in size in the Dominion of Canada.

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Alberta Women's Institutes

MOTTO: FOR HOME AND COUNTRY

Superintendent: MISS MARY MacISAAC

Tofield had a specially good meeting lately, to which they invited the members of Ryley Institute. About 30 of the latter institute members were present, and about 80 in all. The meeting was most enthusiastic, and the Tofield ladies are hoping to have another pleasant visit from their neighbors. The meeting was addressed by the President of the Ryley branch, and good papers were read on various household subjects—home building and managing, managing home without hired help, setting a table, serving meals, system about our work.

Lougheed. 56 were present at the October 13th meeting, when the Secretary read a paper on Conservation of Food,— a live subject. The Institutes are building or renting are and hope to accomplish some saving of food stuffs. A competition was held to obtain hints on "bread suitable for every day use, made from white flour with some addition such as rye, oats, shorts, cornmeal, etc." There were 9 entries and 2 prizes given. A good social meeting was held on the 23rd October.

Prairie Circle are enlarging their rest room and are planning for a banquet at its opening. Each rest room in the province stands for progress. A gentleman said recently to me, "The Rest Rooms that the Institutes are building or renting are just what the smaller towns need, and it helps a town." Never let your Rest Room die out, but make good use of it. Let us hear how you use yours.

Brant raised money for Red Cross on Oct. 31st by holding a most successful Hallowe'en party.

Hanna Institute and the U. F. A. are co-operating to procure in the near future a short course in agriculture. We are always pleased to hear of these "Union" arrangements,—they mean strength.

Clive is working for hot lunches. We are delighted to learn it. If each branch in our province would take a stand for this, our children would call us blessed.

Halkirk on Oct. 11th listened to two splendid papers, one on "chickens", the other on "Storing Vegetables for Winter Use". We hope when papers are given that a lively discussion will follow, for often excellent ideas are gained thereby.

Bowen has donated \$194.00 to Red Cross. The money was raised on Fair Day. Our Institutes are proving that patriotic work is most certainly Institute work.

Cornucopia discussed Christmas recipes at their last meeting, the entire audience entering into the discussion.

Rosebud raised \$155.80 for "Our Day" in the British Red Cross. "Rosebud" Institute certainly have a beautiful name—one we shan't forget, and they never intend letting us forget that they have a lively branch there.

Sullivan Lake discussed preserving in an interesting manner in October. One paper gave information, and the other asked for it.

Cravath Corners has packed and sent a goodly number of Christmas boxes to the soldiers at the front. They gave a Thanksgiving Dinner on Nov. 30th, and are planning in the winter to hold their meetings at 11 a.m., the hostess to provide a simple lunch. This will give a longer afternoon for actual work, and carrying out the program, and is an excellent idea for purely rural districts.

Greeting

Christmas, with its many responsibilities will soon be upon us and I can not let it come and go without sending to our many Institute members the kindest of greetings and the wish that the new year will bring some new joy into your lives. We all hope it will be the last War Christmas and if the right peace comes to our nations our cup surely will be running over and our joy complete.

I trust the work of our Institutes will continue to increase for much good and that wherever a branch is to be found its women will be known throughout the district as women of sterling worth, always alive for the best things in life, and never allowing any jealousies or petty strifes to mar the high ideals for which we are striving.

Remember the little poem:

"Around the corner I have a friend,
In this great world that has no end,
But days go by and weeks roll on
And before I know it a year has gone.
And I never see my old friend's face,
For life is a swift and terrible pace;
But he knows that I love him just
as well

As in the days when he rang my bell,
And I rang his.

We were youngsters then,
But now we are busy tired men,
Tired of playing this foolish game,
Tired of trying to win a name.
To-morrow, I say, I'll call on Jim,
Just to prove that I think of him,
But to-morrow comes and to-morrow
goes,

And the distance between us grows
and grows.

Around the corner, yet miles away.
Here's a telegram, Sir, Jim died to-day.

Yes, that's what we get, and deserve
in the end,

Around the corner a vanished friend"

You know your friend "Around the Corner" is your neighbor, whether she lives in the next lot or at the end of the mile. Know your neighbor, take her to the Institute meetings and so make one woman happy and also add one new name to the roll.

Increase in numbers this year. We number now 8,000 and have about 215 branches. Let's have 10,000 by March 6, the convention date.

An Institute to be a perfect success and to be able to really work for "Home and Country" should take in every woman in the town and country, and you will certainly find a splendid work for all to do.

"Everyone works," stands for happiness.—Isabel Noble, Prov. Pres.

FOOD ECONOMY LECTURE

Mrs. Jean Muldrew, Director of Domestic Economy in the Office of the Food Controller, and former Provincial Secretary of the A. W. I. addressed a convention of Women's Institutes for the Province of New Brunswick, at Moncton, in October. Mrs. Muldrew made the first public announcement of the savings resulting from "beefless and baconless days." Touching upon the necessity of economy and substitution, she pointed out that at least one-quarter of our white bread must be replaced by bread made from some other cereal. "The Kitchen Soldier," said Mrs. Muldrew, "in her uniform is necessary to win the war. It may be we shall be fortunate enough to lose our reputation for wastefulness and extravagance."

Have faith in yourself. Failure is only for those who think failure.

- EVERYTHING IN MUSIC -

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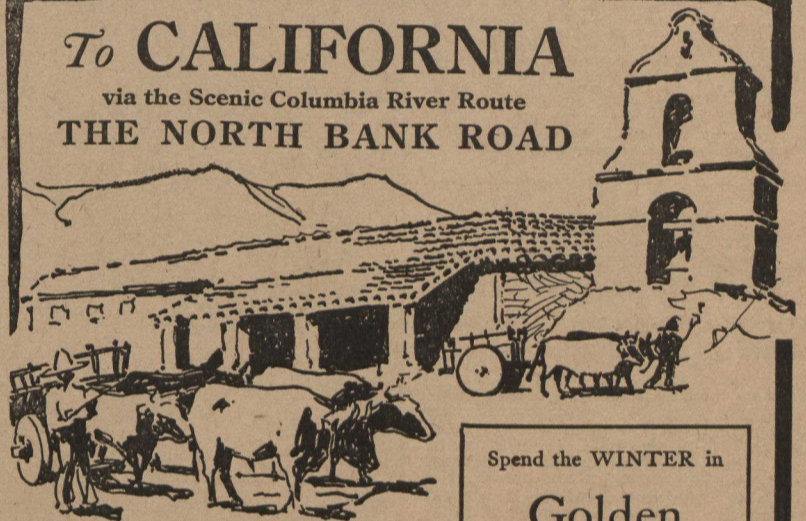
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Davenport Hotel, Spokane, Washington

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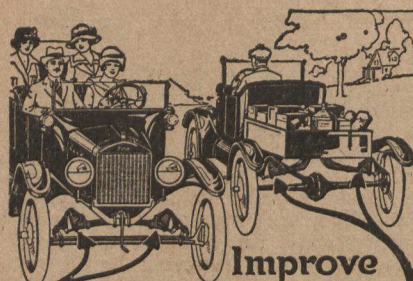
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Children's Page



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SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS.

THE sole head of a family, or any male over 18 years old, who was at the commencement of the present war, and has since continued to be, a British subject or a subject of an allied or neutral country, may homestead a quarter-section of available Dominion Land in Manitoba, Saskatchewan or Alberta. Applicant must appear in person at Dominion Lands Agency or Sub-Agency for District. Entry by proxy may be made on certain conditions. Duties—Six months residence upon and cultivation of land in each of three years.

In certain districts a homesteader may secure an adjoining quarter-section as pre-emption. Price \$3.00 per acre. Duties—Reside six months in each of three years after earning homestead patent and cultivate 50 acres extra. May obtain pre-emption patent as soon as homestead patent on certain conditions.

A settler after obtaining homestead patent, if he cannot secure a pre-emption, may take a purchased homestead in certain districts. Price \$3.00 per acre. Must reside six months in each of three years, cultivate 50 acres and erect a house worth \$300.00.

Holders of entries may count time of employment as farm laborers in Canada during 1917, as residence duties under certain conditions.

When Dominion Lands are advertised or posted for entry, returned soldiers who have served overseas and have been honourably discharged, receive one day priority in applying for entry at local Agent's Office (but not Sub-Agency). Discharge papers must be presented to Agent.

W. W. CORY,

Deputy Minister of the Interior.

N.B.—Unauthorized publication of this advertisement will not be paid for.

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can be sent to us for repairs by mail. We will send you an estimate of the cost of repairs needed. Our staff of watchmakers are not excelled for expert workmanship, and all work is fully guaranteed.

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Oldest Established Jewelry House
in Alberta

RODERICK'S CHRISTMAS EVE
The night was cold, the wind was high,
And big, black clouds darkened the sky;
When all of a sudden, from out of the gale,
There came the tiniest, pitiful wail,
Like that of a child, who had lost its way,
Or the screech of an owl, at the break of day.

Roderick, who sat by the fire at his ease,
With Fido the puppy sprawled 'cross his knees,
Crept to the window and peeped out to see
What in the world such a queer noise could be.

The funny old man pulled him into the sleigh,
And clucking to Blitzen, the two sped away.

Higher and higher the Reindeers went,
While Roderick was wondering what it all meant,
But Santa remained so glum and so still,
That Roderick was seized with terror and chill,
And crouching low, like a kitten in fright,
He watched, in silence, the wonderful flight.

Over the moon like rockets they went,
With nothing to block their rapid ascent;



"Jack and Gill went up the hill to get a pail of water."

As he lifted the shade, the fire's cheerful glow
Cast its rays on the bitter cold snow,
And there in the oddest bit of a sleigh,
The prostrate form of Santa Claus lay;
While hanging loosely over his back,
Was nothing more than an empty sack.
A sorrowful sight, on Christmas Eve,
A sight that Roderick could scarcely believe,
And unbeknown to the family and maid,
He quickly went to poor Santa's aid;
Expecting, of course, to find him most dead,
But, to his utmost surprise, instead,

When all of a sudden there came into sight
A very big star, unusually bright.
Then Santa Claus, changing his attitude
(Which up to this time had been rather rude),
With a smile nudged Roderick and said—"My dear
You wonder, I know, why I brought you here;
But just have patience, and by and by
I'll tell you with pleasure the reason why."
Then hollering whoa and drawing rein,
The two alighted in Santa's domain.

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THEN
COME TO
HARRISON
HOT SPRINGS

You'll find here a panacea for your winter ills or tired muscles—especially your rheumatic ones.

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Harrison Hot Springs, B. C.
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Get off at Agassiz, on C. P. R. Main Line
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He paid a premium of \$177.35 per annum. This year the Policy matures and the Policyholder received the Guaranteed Value of \$2,815, and Profits of \$2,250 making a total cash value of \$5,065. He paid in premiums during twenty years \$3,547 and received back \$5,065 making a clear profit return of \$1,518 or 34 per cent. compound interest plus \$5,000 of Life Insurance for twenty years free of cost.

Enquire into the Policies that give such remarkable results.

The Great-West Life Assurance Company

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An immense area of the most fertile land in Western Canada for sale at low prices and easy terms ranging from \$11 to \$30 for farm lands with ample rainfall—irrigated lands up to \$50. One-tenth down, balance if you wish within twenty years. In certain areas, land for sale without settlement conditions. In irrigation districts, loan for farm buildings, etc. up to \$2000, also repayable in twenty years—interest only 6 per cent. Here is your opportunity to increase your farm holdings by getting adjoining land, or to secure your friends as neighbors. For literature and particulars apply to Allan Cameron, General Superintendent of Lands, Department of Natural Resources, 924 First Street East, Calgary, Alta.

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And Roderick and Santa Claus, hand in hand,
Merrily strolled through this marvelous land,
Dancing and singing and laughing the while,
(For in Santa Clause' land such is the style.)
Then stopping in front of the beautiful star,
At Santa's command its doors stood a-jar;
And two little elves, no bigger than rats,
With jeweled garments and golden hats,
Ushered them into this palace of toys—
Santa Claus' home, and the home of noise;
For rap-a-tap-tap and the cracking of boards,
The song of the saw and the clangor of swords,
The call of the bugle and beat of the drum,
Was enough to make anyone deaf and dumb.

Poor little Roderick could do naught but gasp,
As he stood with his hand in Santa's strong clasp;
For never in all of his life before,
Had he seen such a wonderful great, big store;
But after a while his fear passed away,
And like a whirl-wind he started to play;
And dear old Santa was good to the boy,
By letting him do what gave him most joy;
And never did child play with such might,
As Roderick did on this memorable night.

All of this time old Santa sat by,
While the merriest twinkle danced in his eye,
And then, as a cat makes a spring for a mouse,
Seizing Roderick, he ran from the house,
He closed and bolted the toy palace door.
And reaching the outside world once more,
Then placing Roderick over his knee,
Spanked him good with a branch of a tree;
And when he had finished said,
"This, my dear,
Is one of my reasons for bringing you here;
For didn't I hear you say, last night,
In a voice and manner not very polite,
That it was all nonsense for girls and boys
To believe that Santa Claus brought their toys?
And didn't you say you would lie awake,
And prove to your brother that I am a fake?
So now, if you'll kindly step in my sled,
I'll take you home to your own little bed,
And I hope that to-morrow—Christmas Day—
You'll speak of me in a different way.

—Mary Belle Rich

"I'm afraid these Louis XV heels are much too high for me. Perhaps you have lower ones—say about Louis X would do, I think."

He: "Can you cook?"
She: "Slightly."
He: "Can you cook hassenpfeffer?"
She: "Cook it? I can't even say it."

"That summer boarder of ours spends a good deal of time in the dairy. Seems to take a great interest in the separator."

"Well, he's in that line himself."
"Huh?"
"He's a divorce lawyer." — Exchange.

Country Women's Clubs

"FORWARD"

MRS. WALTER PARLBY, President, U. F. W. A.

TO THE UNITED FARM WOMEN

To all our members I should like to send a few words of Christmas Greeting, with the hopes that before yet another Christmas comes around we may have the longed for peace. As I write things do not look very promising for this end. On the West front we are driving slowly forward, but in Italy the enemy is victoriously pushing his way, and it looks as though beautiful Venice, with all its wonderful art treasures might once more pass into Austrian hands. All our patience, all our courage, all our fortitude will be needed, if we are going to end this war so that it will not have to be fought over again in a few years' time. As women who have to stay here at home in Canada

we have a big part to play, and we can only play that part well by enlarging our vision to its widest capacity, putting aside our own personal interests whether in politics or the work of our daily lives, and asking ourselves always the question, "What is best for the Nation and the Allies?"

We must realize that every action of ours which hinders or makes more difficult the work of those who are responsible for conducting the war and safeguarding the people, is adding to the length of the war, is causing the death of more of our mothers' sons. Each added day of war means so many thousands more of killed, maimed and crippled men, and their blood is on the heads of each one of us who is not doing his or her full

share of helping to win the war, whether it is by subscribing to the Victory Loan, producing and conserving all the food possible to avert the famine into which the world is hurrying, or helping the men who are guiding the helm of state through the perilous waters through which we are passing. Criticism springs easily to the lips, and we are all prone to think we could run things better than those who are struggling to do so; but merely destructive criticism is useless and harmful at all times. If we have any really constructive criticism to offer, there are always those who are willing to listen and accept our help.

There are many fortunate people in Canada to whom the war has not come home at present with any bitter personal loss, who have not been called on for any sacrifice beyond the giving of a little money for patriotic purposes; these should be the most eager to bear their share in helping the country on to victory by every effort in their power.

We are on the eve of an election,



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You who have leisure for a vacation this winter, or who must take time for one, do you know British Columbia, Washington and Oregon?

All that you desire or need for a restful, inspiring, economical trip is near at hand in



You don't need to wish that you could go far away. You don't have to long for a stay in a mild climate. You can find it here—and quickly. This is "Our International Playground."

Excursion Rates—Make your plans to take advantage of special excursion rates good December 2 to 8, or January 6 to 12. See your ticket agent and write to us now for information and suggestions.



PACIFIC NORTHWEST TOURIST ASSN.

Dept. N, L. C. Smith Building
SEATTLE, WASH.

in which every kind of bitterness and evil speaking will be made use of by political workers. May I venture to ask our U. F. W. members to rise above the sordid mire of party politics, and, whether they be Tory or Liberal, bring their calmest, wisest, largest vision to bear on the vital issues that are before us, that our consciences may be clear before God that we have not willingly done anything to make things harder for the men who are already suffering horrors unimaginable on the battlefield.

With every good wish for Christmas and a Happy New Year to our members, and great success to the Clubs.—Fraternally, Irene Parlbly.

MISS BATTIE'S PATRIOTIC SOCIAL

JEAN STEVENS

Convenor Farm Household Economics Committee

Here's a letter for the teacher of the Loonieville school," said Jim Green, coming into the tiny parlor, where his wife and their boarder, Miss Battie, the school teacher, were seat-

ed at their fancy work. Miss Battie eagerly seized the letter and tore it open, a moment later exclaiming delightedly. "Oh! here is something too lovely for words. It is a letter from Mr. McNair and he asks the Loonieville district to raise \$200 for the Patriotic fund by entertainments, etc. I have been longing and longing to do something large and splendid for my country, and I simply couldn't go out as a nurse for the color of the uniform is hideously unbecoming to my complexion; but I shall be able to do my bit right here at home, you must help me, Mrs. Green."

"I certainly shall," said Mrs. Green her pretty face flushing with pleasure. "Say we have a box social and dance for the first."

"The very thing," assented Miss Battie. "We'll have the orchestra to furnish the music, and we'll get Mr. Randall, the comedian, to give us a few selections and we'll have a perfectly lovely time."

"The orchestra will cost you \$30 and Randall charges \$10 a night and you have to go for him and take him home again," objected Jim.

"Huh! We'll pay all that out of the proceeds," announced his wife. "Yes and we will get Archie Lane to go for him with his car," planned Miss Battie.

"Lane may object to leaving his discing, besides the road to Crumville where Randall lives, is not good and he will have to drive his car on low gear most of the way and that swallows up the gasoline in no time," replied Jim.

"Well, we'll pay him for his old gasoline too," said Miss Battie, "but doesn't it give you a pain to think of people being so mean and calculating as to grudge a few gallons of gasoline when the liberty of their country is at stake. We must spare no pains to make the social a great success, for I want to show Mrs. Dixon that I can do things on a large scale for the cause of Patriotism. Just imagine, the other day she said to me that it was a shame for a healthy young woman like me (young woman, mind you, not young lady) to be wasting my time crocheting yokes, when the men in the trenches were having their feet frozen for want of socks, and she

said I would look just as well and be more comfortable with flannelette underwaists as those openwork things, but I will let her see that I do things that are worth while though I don't sit pattering in a corner knitting."

"That's just the way I feel about Mrs. Seaton," agreed Mrs. Green. "Now yesterday I was plucking some fowl for the restaurant man and I went down and did it on the shady side of the chicken house so as to have no muss in the kitchen; and when I was busy at it, Mrs. Seaton came along. She chatted a few minutes, and then she said: 'What are you doing with the feathers?' 'Oh, I said, 'I just leave them where they drop and the wind soon sweeps them away.' Well, she straightened herself with such a tragic air and she said, 'Eveline Green! Do you mean to tell me that you are letting the wind blow away all those good feathers, when the soldiers who have been fighting for you are lying wounded and dying on the hard clay floor without a pillow or a cushion in the military hospitals in France. You are a disgrace to your country,' and off she marched. I will love to let her see that she isn't the only toad in the puddle." "Yes indeed," said Miss Battie but I guess we'll let those two look after the serving of the coffee and ice cream and lunches to the people who don't buy boxes."

"How shall we make our boxes?" questioned Mrs. Green.

"I will make mine heart shaped and cover it with white satin," replied Miss Battie, "then I will paint a cluster of rose buds in the centre of the lid and decorate it with bows of red white and blue ribbon. It will be just too cute for words; and say, you could take that little work basket of yours and cut out the straw braid and weave in pink satin ribbon instead."

"But that was the first gift Jim ever gave me," objected Mrs. Green. "We were boy and girl going to school together when he gave it to me, and he earned the money to pay for it by driving cattle to the fair. Oh! I can't cut that up."

"In a crisis in the World's history like the present, we must not allow our own personal fads and fancies to come between us and our duty to the nation," expostulated Miss Battie, loftily.

"But it would be so expensive to buy enough ribbon to fix the basket in that way," faltered Mrs. Green.

"Oh! not very," replied Miss Battie. "You don't need to get a very good quality and twenty or twenty-five yards will be enough. I don't suppose it will cost you more than \$2.50. Then to fill them I'll get a dollar's worth of grapes and I'll make some French cream candy, and you can make sandwiches with fresh brown bread spread with cream cheese and chopped English walnuts; make them into little rolls and tie them with ribbon in the patriotic colors and you could bake an angel cake and two little pies in saucers. Oh; say! wouldn't it be too comical for words if Bob Jones got my box. He's so jolly and such a love of a dancer. You know I just detest him and it would be such a joke on me if I had to be his partner all evening."

"I wish I had a new dress," sighed Mrs. Green. "But we are going to try to prove up on the preemption, and there are notes coming due on necessities until we get on a good footing."

"Do up that organdie with the green sprig in it," advised Miss Battie. "But you should have white shoes then you'd look too sweet for words. Say! I'll tell you," she exclaimed, "I saw a lovely pair of white kid pumps in Mott's show case, dirt cheap too; only \$10."

"Only \$10, echoed Mrs. Green. "They might as well be \$100 so far as I am concerned. Still I don't know either," she added reflectively. "Ma sent me \$10 on my birthday to spend on warm clothes for the winter, but I think it is going to be a very mild winter and I have a great mind to get the pumps instead."

(Continued in Next Issue)

Your Christmas Guests

—And What Their Presence Means in Your Home.

WHAT a glorious Christmas it would be, if you could have Anna Case and Marie Rappold, Thomas Chalmers and Arthur Middleton, as your Yuletide guests—to spend the holiday season right in your own home—and sing for you, whenever you wish!

Thanks to the genius of Thomas A. Edison, you can have the enjoyment of their voices, not only for Christmas but for all the days to come.

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reproduces the human voice with such fidelity and accuracy that no human ear can detect a shade of difference between the living artists and The New Edison Re-Creation of their voices.

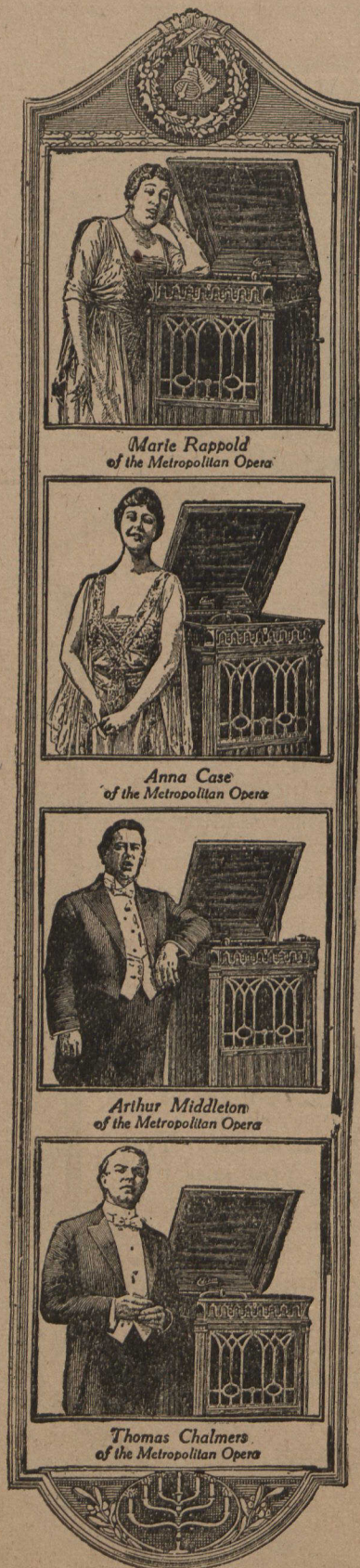
Before hundreds of audiences, have been conducted the famous "tone test," in which the artist sings alone, then suddenly stops, leaving The New Edison to continue the song. Thirty different artists have made the test, before more than a million people. And not one of this vast audience has been able to tell, except by watching the singer's lips, when the voice stopped and The New Edison began.

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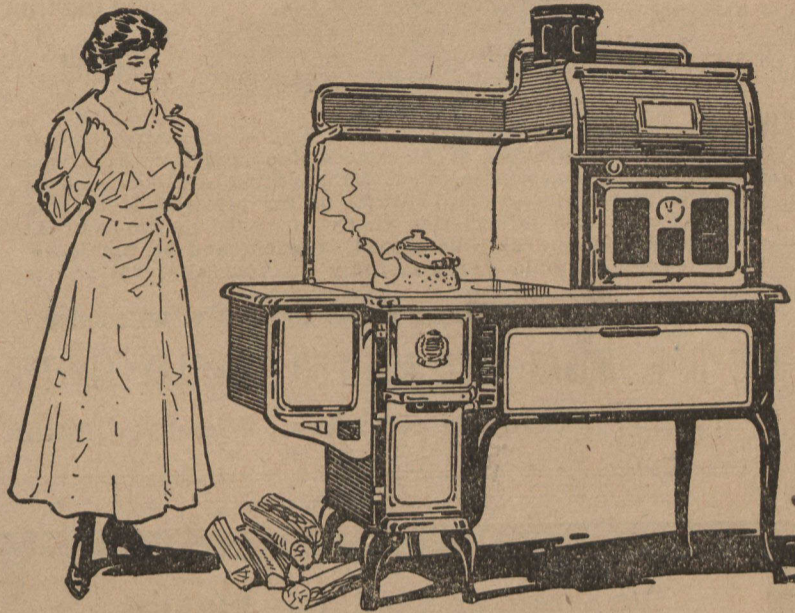
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WRITE TODAY for our new 1918 catalogue, profusely illustrated, and cultural directions in which we list all the hardiest and best varieties of VEGETABLE and FLOWER SEEDS, FRUITS, TREES and SHRUBS, GRASSES, FODDERS and SEED POTATOES.

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We make a Special Offer this spring of
Manitoba Maple, straight young trees, 5-6 ft., at, per 100...\$10.00
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Caragana, 2-3 ft., at, per 100... 5.00

The Greatest Acquisition yet introduced into the West to provide fresh fruit constantly.



Note the vigorous growth, the berries in all sizes (some ripe) and flowers still showing for more fruit. This plot was planted first week in May. We picked ripe strawberries from it 24th of June, and continued picking ripe strawberries every day until the hard frosts came in the middle of September.

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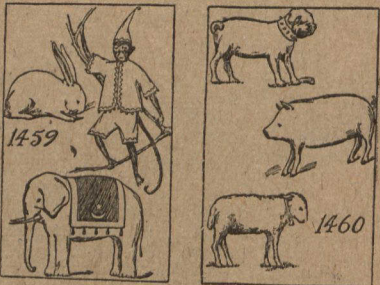
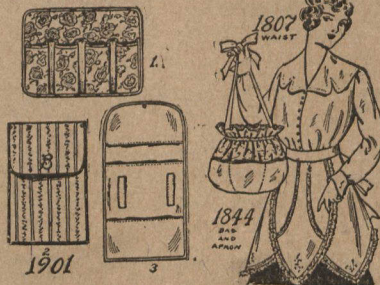
Sewing Talks

OUR PATTERNS

The Farm and Ranch Review will supply its readers with patterns from the latest designs—at the uniform price of 10c each. For ladies' upper garments give bust measure. For skirts and undergarments give waist measure. For misses and children give age and size. Any pattern in this department may be had for 10c in silver or stamps.

CATALOGUE NOTICE

Send 10c in silver or stamps for our Up-to-date Fall and Winter,



cap. For the rabbit it will require $\frac{1}{2}$ yard of canton flannel or eiderdown. The elephant will require one yard of canton flannel. Price 10c.

1460.—Patterns for Dog, Pig and Sheep.—Cut in one size. The sheep will require $\frac{1}{2}$ yard of material. The dog $\frac{3}{4}$ yard and the pig $\frac{1}{2}$ yard. Price 10c.

Waist 1807.—Apron and bag 1844—A smart combination. Waist 1807 cut in 6 sizes: 34, 36, 38, 40, 42, and 44 inches bust measure. It requires $3\frac{1}{2}$ yards of 27 inch material for a medium size. Apron and bag 1844 cut in one size: Medium. It requires $2\frac{1}{2}$ yards of 27 inch material for the apron, with $\frac{3}{4}$ yard for the bag. Two separate patterns, 10c for each pattern.

1894—Ladies' Aprons.—Cut in one size only. It will require $\frac{3}{4}$ yard of 36-inch material for No. 1, and $1\frac{1}{2}$ yard for No. 2. Price, 10 cents.

1895—Set of Clothes for Dolly's Wardrobe.—Cut in 5 sizes for dolls: 18, 20, 22, 24, and 26 inches in length. The dress requires $\frac{3}{4}$ yard. The drawers require $\frac{1}{2}$ yard. The Petticoat requires $\frac{3}{4}$ yard. The cape requires $\frac{3}{4}$ yard of 36 inch material for a 22 inch size. Price 10c.

1897—A Pretty Set for Miss Dolly—Cut in 5 sizes, for dolls: 18, 20, 22, 24 and 26 inches in length. The dress will require $1\frac{1}{2}$ yard of 36 inch material. The hat will require $\frac{3}{4}$ yard for a 22 inch size. Price 10c.

1901—Shoe Bag, Laundry Bag and Traveling Case—The 3 bags are furnished in this pattern and are cut in one size only. The shoe bag requires 1 yard, the laundry bag $1\frac{1}{2}$ yard, the traveling case $1\frac{1}{2}$ yard, of 22 inch or wider, material. Price 10c.

1902—Doll's Long Clothes Set—Cut in 3 sizes, for dolls: 16, 18, and 20 inches in length. It will require $2\frac{1}{2}$ yards of 27 inch material for the dress, $1\frac{1}{2}$ yard of 24 inch material for the wrapper and $2\frac{1}{2}$ yards of 24 inch material for the coat, for an 18 inch doll. Price 10c.

1913—A Serviceable Set of Bags—Cut in 1 size. It requires for No. 1, $\frac{3}{4}$ yard of 36-inch material; for No. 2, $\frac{1}{2}$ yard, and for No. 3, $\frac{1}{2}$ yard. Price, 10 cents.

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1917-1918 Catalogue, containing 550 designs of ladies', misses' and children's patterns, a concise and comprehensive article on dressmaking, also some points for the needle (illustrating 30 of the various, simple stitches) all valuable hints to the home dress-maker.

9765.—Doll's One Piece Set of Underwear.—Cut in 6 sizes for dolls: 14, 16, 18, 20, 22 and 24 inches in length. It will require 2 yards of 36 inch material for a doll 24 inches long, for the entire set. Price, 10c.

1459.—Patterns for Monkey, Elephant and Rabbit.—Cut in One Size. It requires one yard of canton flannel for the monkey, with $\frac{1}{2}$ yard of flannel for this jacket, trousers and

WITH THE COOK

CHRISTMAS COOKING

Roasting the Turkey.—After turkey is cleaned, stuffed, etc., rub over with salt, brush with butter and dredge with flour. Place in hot oven, and when brown reduce heat. Baste frequently, if necessary adding a little boiling water to fat in pan. About 4 hours is required for roasting 10 lb. turkey.

Stuffing.—1 pint soaked bread, 2 tablespoons of sage, 2 tablespoons summer savory, 2 teaspoons salt, 2 teaspoons pepper, butter about size of egg.

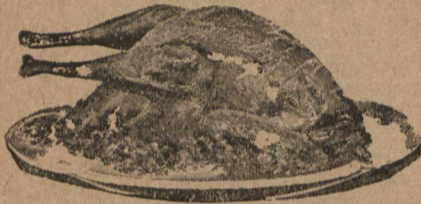
Escaloped Turkey.—2 eggs, 2 tablespoons milk, butter, salt, pepper, cracker crumbs. Butter a deep dish and line with cracker crumbs. In the bottom put a layer of crumbs, with a little butter, pepper and salt. Next, layer of turkey chopped fine. Continue this until dish is full, adding turkey stuffing and gravy. Beat two eggs and add to them 2 tablespoons milk, butter, salt, pepper and cracker crumbs. Spread over dish and bake for ½ hour.

Cranberry Sauce.—3 cups cranberries. Add 1½ cups sugar and 1 cup boiling water. Boil 10 minutes. Skim and cool.

CAKES AND COOKIES

Light Fruit Cake.—2 cups sugar, ½ cup butter, 2 eggs, ½ cup raisins chopped fine, ½ cup currants, a little lemon peel, 1 teaspoon essence of lemon, ½ cup milk, 2 teaspoons baking powder, 3 cups flour.

Fruit Ginger Bread.—1 cup brown sugar, 1 cup butter or half lard, 1 cup sour milk, 1 cup molasses, 1 cup raisins, 1 cup currants, 1 tablespoon ginger, 2 eggs well beaten first, spice to taste, 4 cups sifted flour, 2 tea-



spoonfuls soda dissolved in water. Put soda in last when cake is well mixed. Bake ½ hour.

"Wonder" Doughnuts.—1 lb. flour, 4 eggs, ¼ lb. sugar, ¼ lb. butter, 1 teaspoon baking powder. Mix all dry ingredients. Beat eggs well and add to mixture. Beat with hands into very stiff dough. Break into small balls about size of walnut, then roll flat to about 3 inches long and 2 inches wide. Make 3 cuts lengthwise in centre and turn pieces over to make fancy shape. Put in boiling lard and leave until nice golden brown, turn and do other side, when take out. Use plenty lard in deep wide kettle. Lard can be used for pastry afterwards.

Cream Sponge Cake.—1 cup sugar, ½ cup cream, 2 eggs, 1 cup flour, ½ teaspoon cream tartar, ¼ soda, flavor with few drops lemon essence.

Spice Cake.—1½ cups sugar, ½ cup butter, ½ cup sour milk, 2 cups raisins chopped, 3 eggs, ½ nutmeg, 1 teaspoon cinnamon, 1 teaspoon cloves. Mix rather stiff and bake in moderate oven.

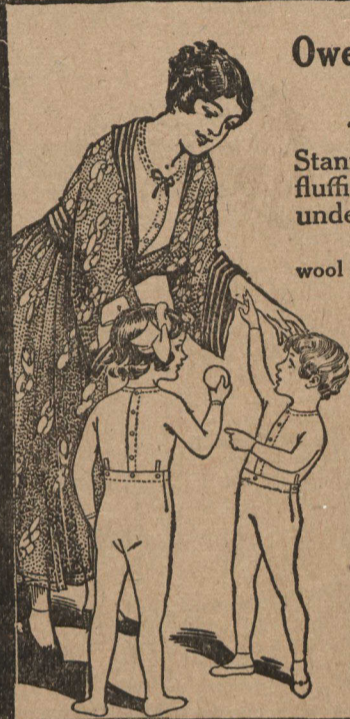
Rice Cake.—Break 6 eggs on half a pound of rice flour and half a pound of crushed white and sifted sugar. Beat all together for fifteen minutes and flavor with a few drops of essence of lemon. Line dish with buttered paper and bake half an hour.

Plain Fruit Cake.—½ lb. currants and ½ lb. raisins, 1 cup butter beaten to cream, 1 cup white sugar, 1 cup milk, 3 cups flour, 3 eggs and 3 teaspoons baking powder. Paper dish and bake 1 hour.

Cheese Straws.—Roll plain pastry one-fourth inch thick, sprinkle one-half with grated cheese to which

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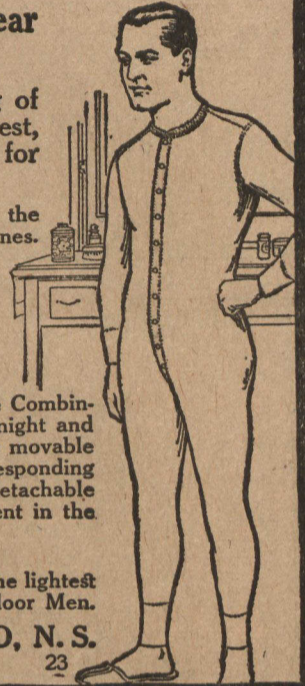
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has been added few grains of salt and cayenne. Fold, press edges firmly together, fold again, pat, and roll out one-fourth inch thick. Sprinkle with cheese and proceed as before; repeat twice. Cut in strips five inches long and one-fourth inch wide. Bake eight minutes in hot oven.

Cornmeal Gems— $\frac{1}{2}$ cup cornmeal, 1 cup flour, 3 teaspoons baking powder, 1 tablespoon sugar, 1 tablespoon melted dripping, $\frac{1}{2}$ teaspoon salt, $\frac{3}{4}$ cup milk, 1 egg.

Oatmeal Cookies—3 cups flour, 3 cups oatmeal, 1 cup sugar, 1 cup of shortening, 3 teaspoons baking powder, 1 teaspoon salt, 1 cup milk.

DESSERTS

Plum Pudding—1 lb. raisins, 1 lb. suet, $\frac{1}{2}$ lb. flour, 4 eggs, $\frac{1}{2}$ pint milk, $\frac{1}{4}$ lb. lemon peel, 1 lb. currants, $\frac{1}{2}$ lb. sugar, 1 lb. bread crumbs, $\frac{1}{4}$ lb. citron peel. Mix dry ingredients all together, then add liquids and beaten eggs. Steam about 3 hours.

A Substitute Christmas Pudding—1 cup grated carrots, 1 cup grated potatoes, 1 cup grated apples, 1 cup sugar, 1 cup raisins, 1 cup currants,

1 cup suet, 1 teaspoon soda, $1\frac{1}{2}$ cups flour, nutmeg. Steam 3 to 4 hours.

Queen Pudding—Rub a dessert spoon of butter into $\frac{1}{2}$ cup sugar. Beat the yolks of 3 eggs very light. Stir these together into the butter and sugar. Soak $\frac{3}{4}$ cup bread crumbs in 1 pint milk, then add egg mixture and flavoring. Bake in buttered dish 2-3 full until custard is set. Remove from oven and spread with jam. Cover with meringue made of whipped whites and $\frac{1}{2}$ cup sugar. Brown in oven. Serve hot or cold with cream.

Steamed Fruit Pudding—2 tablespoons brown sugar, 2 tablespoons butter, 2 tablespoons fruit juice, 1 egg, $\frac{1}{2}$ teaspoon soda dissolved in a little cold water, flour to batter. Steam one-half hour and serve with caramel sauce.

Caramel Sauce— $\frac{1}{2}$ cup brown sugar browned over hot fire with 1 tablespoon butter and 1 tablespoon flour. Add boiling water to right consistency, flavor with vanilla.

Apple Mould—Slice thin a lot of apples into pudding dish, sugar well, add cinnamon and nutmeg, then layer of apples, etc., as much as needed. Cover dish well and cook in a slow oven from 1 to 2 hours. Let cool and it will turn out in a jelly. Serve with custard or whipped cream.

Snow Pudding—2 tablespoons cornstarch, 2 tablespoons granulated sugar, 3 cups boiling water, pinch of salt. Mix cornstarch and sugar in little cold water, add to boiling water and cook until thickened, stirring constantly. Add 3 whites of eggs, well beaten. Put in mould and set to cool.

Apple Tapioca Pudding— $\frac{3}{4}$ cup pearl or $\frac{1}{2}$ cup minute tapioca, cold water, $2\frac{1}{2}$ cups boiling water, $\frac{1}{2}$ teaspoon salt, 7 sour apples, $\frac{1}{2}$ cup sugar.

Soak the tapioca an hour, and cook it in a double boiler. Pare and slice the apples and arrange in a buttered pudding dish. Add the sugar, pour over the tapioca, and bake in a moderate oven until the apples are soft. Serve with sugar and cream. Minute tapioca requires no soaking.

Home-Made Candies

Peanut Brittle—2 cups granulated sugar, 1 cup shelled, chopped peanuts (warm). Stir sugar constantly over fire till melted to golden brown syrup and lumps all gone. Add warm peanuts. Stir in quickly and pour at once into buttered tin. Spread thin and mark in squares.

Egg Macaroons—White of 1 egg well beaten, add $\frac{3}{4}$ cup pulverized sugar, $\frac{1}{2}$ teaspoon baking powder, flavor to taste. Drop with teaspoon on buttered tins and bake in slow oven.

Honey Fudge—2 cups sugar, $\frac{1}{2}$ cup honey, $\frac{1}{2}$ cup water, 2 egg whites, vanilla extract. Boil together sugar, honey and water until syrup threads. Pour syrup over well-beaten whites of eggs, beating continuously until the mixture is thick enough to shape, and adding flavoring after mixture has cooled a little. While beating drop in small pieces on buttered paper.

French Nougat—2 cups white sugar, $\frac{1}{2}$ cup water, $\frac{1}{2}$ cup white corn syrup, $\frac{1}{4}$ cup chopped nut meats, $\frac{1}{4}$ cup chopped candied cherries, beaten whites of 2 eggs. Boil sugar, water and syrup together until mixture threads when dropped from a spoon. Take out one cupful of mixture and beat very slowly into the whites of the eggs. Return remainder of mixture to stove and cook until it will form a very firm ball when dropped into cold water. Then add, very slowly, to egg whites, beating continuously until stiff. Add flavoring as desired, nuts, cherries, and pour into boxes or other molds that have been lined with waxed paper. Put waxed paper over the top of the candy also, and allow to stand several days (it is really improved by standing about 2 weeks) before slicing. Cherries may be omitted if desired. Almonds and walnuts are the best nuts to use.

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The above phrase has been a slogan for many holiday seasons, but never has its importance been more significant than this year. Not only have prices been affected under the conditions now existing, but it has been impossible for us to get the usual enormous quantities in some lines which have always proven so popular with **EATON** customers. For this reason we advise you not to delay but to send in a complete order covering your Christmas wants as soon as it is convenient to do so.

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GROWING OF VEGETABLES

Farm and Ranch Review readers: There is one thing I would like to call your attention to. I have repeatedly heard people say that Alberta is no country for growing vegetables. Well, I am going to invite those people to come to Bowden Fair next year, which fair will take place on or about the 5th October. Due notice of the date will be given. I think they will then greatly change their minds, for although I have been to fairs in a number of cities and country towns, through Canada and some in the U. S., it still has to be shown me where they can down a little town in Alberta called Bowden, 65 miles north of Calgary on the C. & E. branch of the C. P. R. The most beautiful display of vegetables I ever saw was there—carrots, beets, turnips, parsnips, onions, mangels, two kinds of sugar beets, cauliflowers and cabbages you couldn't beat on this green earth—lots of them, some weighing over 25 lbs. to the head. J. Smith and Sons, living just out of Bowden, had about 130 plants that grew over 2,500 lbs. cabbage. There were Swede turnips weighing 22 lbs., and according to my crop of sugar beets this year, it is in the range of possibility to grow 60,000 lbs. to one acre—the same with carrots, and 24,000 lbs. of potatoes. The potatoes are as good as those that grow at Ashcroft or any other place. If you don't believe me, come to Bowden and try them—33 tons cabbage on one acre.—A Reader of the Farm and Ranch Review.

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HOUSEWIVES AND FOOD SERVICE

Ninety per cent. of the food consumed in Canada passes through the hands of our women. There is, then, a great responsibility resting upon them to conserve supplies needed overseas and to utilize perishable foods. Waste in all its many forms should be regarded not only as a sin, but as actual disloyalty in war time. It is important that sufficient and nourishing food should be provided, suited to the needs of the different members of the family.

Arbitrary rules in this case are of little value, but the principle is of general application—that the women in the homes can do no more important patriotic service than by guarding against waste. The question of substitution is very largely in their hands. A little saving in every home, when multiplied by all the homes in the Dominion, would mean a very large amount of food products saved for the soldiers.

You may feel that you do not need to sign the food pledge—that you will save all you can without it. But how about your neighbor? The actual pledge may help her to remember the duty of food service. The housewives of Canada, pledged to food service, and living up to their pledges, will be a powerful factor in the struggle against Germany and against starvation.

HELPING WHERE POSSIBLE

The high cost of food and wearing materials brought about by the war has decreased the purchasing power of money to such an extent that the workingman especially is finding it difficult indeed to make ends meet. Practically every manufacturer has had to increase the cost of his goods to the consumer to offset his increased operating expenses; in addition to this, some, however, are using inferior material in the manufacture of their goods to that which was used previously in order that they might make as large profits as before.

R. G. Long, president of R. G. Long & Company, Limited, of Toronto, manufacturer of "Bob Long" overalls, when interviewed, stated that, although he had been forced to increase his prices, he is still using the same high grade material in the manufacture of "Bob Long" overalls as in the past, and he intends to



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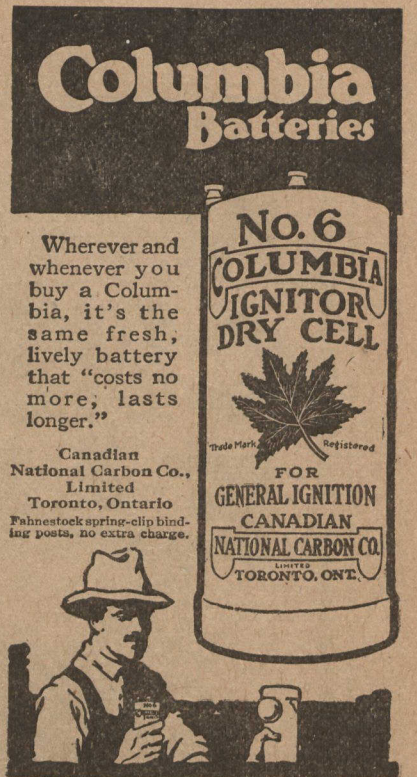
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do so just as long as there is a yard of high-grade material to be had. Mr. Long says he would rather take less profit and give the workingman a square deal, as, apart from the fact that he wishes to maintain a high standard for "Bob Long" goods, he considers it a war-time duty to befriend the workingman who is having such a hard struggle for existence.

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In Nature's Wonderland

BY S. J. WIGLEY

ANIMALS' SELF PROTECTION

All animals have some means of protecting themselves from their enemies and those that have good protective methods become indifferent to danger. The porcupine has not developed the gift of speed for his terrible spines make speed unnecessary.

One very common method of protection is known as mimicry and is used both by plants and animals.

It is well known that insects imitate both the color and the shape of the leaves and even the shape of the shoots and thorns of the trees on which they feed.

Fish so closely resemble the sand and mud at the bottom of the water in which they live that it is difficult to see them when they keep perfectly still. Should they move to different

comes to the little snow shoe rabbit or wood hare and that the ptarmigan changes its feathers on the approach of winter and grows new ones.

It is never wise to flatly contradict a naturalist's statements but I certainly cannot agree with those who make this statement which you can read in a book called "American Animals."

Regularly at the end of October the hair of the snow shoe rabbit begins to change to white and should the snow delay its coming as it sometimes does to nearly Christmas the poor little hares are a very conspicuous mark for their enemies and the change of color is far from being a protection. The hair has not fallen out but gradually becomes bleached at the tips and I have sometimes wondered if the cold frosts have anything



In an Alberta bluff at Christmas time.

colored locations their sensitive skins at once assume the tints of their new surroundings.

Some animals imitate the shape and actions of another dangerous one in order to gain protection and on the other hand some dangerous ones copy the shape of a harmless one in order to secure their prey. This latter kind of mimicry is known as aggressive mimicry and is used by some kinds of spiders in order to catch flies.

It seems to be a law in Nature's wonderland that yellow and black colors adopted by the wasp are a warning and danger signal, and many flies that have no sting and caterpillars that birds would gladly eat have adopted this color and benefit by the protection it affords.

Some benefit by dull colors, others by brilliant ones, and it is still very uncertain what the precise benefit is in each individual case. Here is a chance for careful observation and thought for all young naturalists. Some animals in the Northlands change their colors every winter and summer and there is much difference of opinion amongst naturalists as to how this change is carried out.

Some boldly assert that a new coat

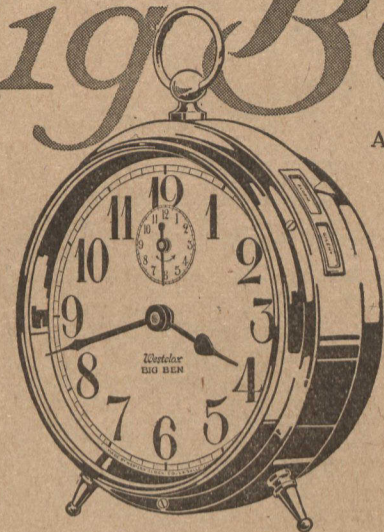
to do with this. The animal certainly does not change its coat in a single night at the first fall of snow. It is only the tips of the hairs that change. Near the skin the usual summer brown is still to be seen. The weasel's hair on the other hand becomes perfectly white to the roots. When the warm weather comes the animals do without doubt shed their warm winter coat. Here is another chance for you to study another uncertain problem in nature's wonderland and you should have many opportunities this coming winter to settle the question in your own minds. Talk with any old trappers you may meet and get their opinion. I certainly think they will tell you that the ptarmigan's feathers do not fall out when the snow comes but simply change their color regularly every season snow or no snow.

The snowy owl and the snow buntings that come to us from the north have whitish plumage that blends harmoniously with the prevailing whiteness of the landscape.

The arctic fox is pure white in the far north, southward it is white only in winter and a bluish-brown in summer.

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THE HOMESTEADERS

By ROBERT J. C. STEAD

SYNOPSIS OF FOREGOING CHAPTERS

Twenty-five years' pioneering in Manitoba have changed John Harris's character, and financial advancement has become his chief aim in life. He plans leaving the original home and taking land again with his neighbor Riles in the Farther West. His daughter Beulah, tired of conditions, leaves home, and to Harris's surprise, his usually submissive wife decides to visit her and goes West. Riles also goes out about this time, getting off at the same town as Beulah had and meets Hiram Gardiner, also formerly of Plainville. The two write Harris to raise cash on his farm, and intend to obtain same on Harris's arrival West, by persuading him to invest in a fictitious mine. Harris and his son Allan arrive West and negotiations are started, as a result of which Harris sells his farm, and with \$20,000 cash with them, he and his son go out to a lonely shack in the mountains to meet the supposed mine-owner. Here the plotters arrive, at night, and a fight ensues. Allan is hurt, and the schemers escape, but Harris makes a prisoner of Travers, who has come to help them, and holds him until the police arrive.

mountains of themselves, wonders of Nature to point out to strangers and to hold in a kind of awe across the country-side, but here they were foothills, mere fragments dropped from the trowel of the Builder as He reared the majestic Rockies behind. And though she often in the early morning, or at sunset, or when the moon was full and white, feasted her eyes and her soul on the cold splendour of the mighty range, it was to the warm brown foothills, with their stubbling of little trees and their solemn warts of grey-green rock, that her heart turned with something of human affection. At first Uncle Fred, or Aunt Lilian, or, a little later, one of the two cowboys rode with her on her expeditions, but her prairie sense of direction quickly adapted itself to her new surroundings, and she soon learned to keep



CHILDREN'S CHRISTMAS TABLE (Twelve Covers)

Select an evergreen tree, the lower branches of which extend to the plate line. Drive a long slim screw through an inch board, eight by eight inches square, and into the trunk of the tree. Set the tree in the centre of the table, and cover the board with evergreen, or with cotton batting sprinkled with diamond dust. Arrange to seat six boys and six girls, alternately, about the table. Fasten, alternately, on the tree six dolls for the girls and six toys for the boys, passing a ribbon attached to each to the space above the plates, ending there in a bow to which a sprig of holly and the name card are fastened.

CHAPTER XVIII.

Converging Trails

Beulah Harris raised her arms above her head and drank in the fresh mountain air that flooded through the open window. A smoky red, with brighter shafts of yellow behind, streamed up from the eastern sky, and sent a glow of burnt-orange color through her bedroom. The girl stretched her spread fingers to the limit of their reach, and with extended toes sought the iron bars at the foot of the bed, filling her lungs with the fresh foothill ozone. Then

their eyes—a look that they tried very hard to hide from her. They wanted to leave her free to live her own life—to shape her career, for a time at least, wholly in accordance with her impulses.

And such a life as she had lived! Arthurs had at once placed a horse at her disposal, and with a fierce delight at the leap she was taking through conventions she swung her right leg over the saddle and sat to place like any man. Although born and raised on a farm, horseback riding was to her something of a novelty, and the assumption of the masculine position was a positive epoch

a keen eye for the precipitous cut-banks that drop sheer from a level plain and lie as unsuspected in the saffron sunlight as a coyote among the ripened willows. There were quicksands, too,—spots where the water sprang from the hillside in a crystal stream and in a few yards soaked into the kneady earth as in a sponge—but all these places were fenced; even in Alberta, where cattle grow like rabbits on the range, the paving of sink-holes with beef steers is an expensive expedient. So Beulah quickly got her foothill sense, and in a week was riding care-free and exultant, across the ranges as



WREATHS OF EVERGREEN AND WHITE FLOWERS

Place a tall crystal vase filled with "pussy-toes" or white "everlasting" (both dried), or with fresh carnations or any other white flower, in the centre of a square dining-table covered with a damask cloth. Surround the vase with a flat wreath of holly and mistletoe. At each of the four corners place two flat evergreen wreaths fastened together with bows of red ribbon. Fashion the wreaths with open ends. Let one wreath rest on the corner of the table and the other hang down over the cloth. A narrow wire or paste-board foundation will be found useful in shaping the wreaths; cover but one side with the evergreens so that they may lie flat.

she dropped her hands, palm upward, with the backs of her finger-tips resting on her eyes, and felt that it was good to be alive.

They had been great times—wonderful times—these weeks spent in the freedom and harmony of the Arthurs' household. Mr. and Mrs. Arthurs—Uncle Fred and Aunt Lilian, as she now called them—had opened their hearts and their home to Beulah from the first. Indeed, the girl was often conscious of their gaze upon her, and at times she would look up quickly and surprise a strange, wistful look of yearning in

in her career. How the people of Plainville would have been scandalized if they could have witnessed her shocking familiarity with a horse! She thought of an English girl who had been cut by the good society of Plainville because she had dared to ride like a biped instead of a mermaid. And she laughed in a wild exultant freedom, while the wind whipped her hair about her shoulders, and she felt her mount firm beneath her as they cantered across the brown foothills.

Such hills they were! In her native plains they would have been

her heart listed or her horse preferred.

One morning, just as the first grey of dawn mottled the darkness of her chamber, Beulah heard her door open, and through the uncertain light she discerned Arthurs gently entering with a rifle in his hand. She sat up, alert, but not afraid; the tingling health in her veins left no place for fear and suffered no foolishness on the part of her nervous system.

"What is it, Uncle Fred?" she whispered.

"H-s-h," he cautioned. "You know we have been losing calves with the timber wolves? Well, there are two of the murderers just across from the corral. I thought you might want to see them."

In an instant her feet were on the floor, and, hand in hand, she and Arthurs stole to the window. At first her eyes could distinguish nothing in the darkness, but by following Arthurs' index finger she at last located two gaunt, shaggy creatures a little way up the hillside beyond the corral, and a couple of hundred yards from the house.

"However did you know they were there?" she whispered. "You must have cat's eyes. I could hardly see them when you pointed them out."

"Not cat's eyes, Beulah," he answered. "Just rancher's eyes. I heard the horses snorting, and I fancied there were visitors. Now, will you take first shot?"

"Oh, that would be a shame. They would get away, and besides, I might kill a horse."

"Well, I won't press it this time," said Arthurs, "because I have a little personal score to settle with these fellows. I guess I have about five hundred dollars invested in each of them."

The wolves were moving leisurely about on the hillside, showing no disposition to run away, but apparently afraid to approach closer to the ranch buildings. Arthurs leaned his rifle across the window sill and took steady aim, while the girl held her breath with excitement. Then there was a quick flash, that shut the scene momentarily from their eyes; the next moment they saw one of the wolves leap into the air and fall, a sprawling mass, upon the ground, while the other darted with the speed of a greyhound toward the neighboring bushes. Arthurs followed him with a bullet, but even so fine a marksman could have found him only by chance in that uncertain light.

"Well, I guess there's a widow in Wolfville this morning," said Arthurs as he leisurely threw the discharged cartridge from the barrel. "My apologies, Miss Beulah, for this somewhat unconventional call and the interruption of your beauty sleep."

But Beulah was standing, wrapped in admiration. "Oh, Uncle Fred," she exclaimed. "You're just wonderful. If I could only shoot like that!"

"It's all a matter of training," he told her. "Of course, you must have good eyes and steady nerves, but you have those already. The rifle is yours whenever you want it, and all the ammunition you can carry. There's just one stipulation—for the first week shoot only at foothills, and, remember, aim low."

So Beulah became a rifle enthusiast, and it astonished her how rapidly she improved in marksmanship. With a little instruction from Arthurs and the cowboys in the matter of sighting and holding her weapon, she developed quickly from a stage of dangerous uncertainty in her gunnery to one of almost expert accuracy. Then she made of the rifle a companion on her horseback excursions, to the destruction of gophers, rabbits, and even a badger and a coyote. It was a brave day when she rode into the corral with a coyote strung across her saddle.

The river near by teemed with trout, and the girl soon caught the fascination of the angler. Mrs. Arthurs had a pair of high rubber boots, which she used when she herself went whipping the blue water, and, anchored in these as far out as she dared go into the gravel-bottomed stream, the girl laced the cold current back and forth. And the wild exultation of her first bite! The fish darted up and down stream, pulling out line faster than she could reel it in, and Beulah, in her excitement, waded deeper into the stream as she followed the quivering line. But mountain streams are treacherous; one step too far plunged her into twenty feet of water, and the next moment she was spinning round and round in the current. She had learned to swim a few

The GREAT MOVIE MYSTERY!

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and \$373.00 in Cash Prizes for Best Replies

Here's a problem that kept an entire audience puzzled a whole evening. Can you solve it?

IT'S so interesting that you will get an hour's stimulating mental exercise from it and no end of amusement. You see the owner of this particular Movie Theatre was very proud of the excellent character of the plays he produced and each night would flash on the screen the names of the famous players who would soon be appearing in his pictures. But on this particular night the operator, wanting to play a little joke on his audience, took the names of the players and so mixed up the letters in each name that they spelt out the funny sentences you see above. Time and time again this film was flashed on the screen only to be demanded back. Many of the audience are still trying to solve the mysterious names. Can you help them?



1st Prize
1918 Chevrolet Touring Car
Completely Equipped
Value \$750.00



Can You Name the Most Popular Movie Stars?

Probably you know the names of most of the famous players but just to refresh your memory we mention below the names of a few of the most popular players.

Charlie Chaplin, Hazel Dawn, Francis X. Bushman, Beverly Bayne, Francis Ford, Grace Cunard, Marguerite Clark, Clara Kimball Young, Fannie Ward, Max Linder, Dustin Farnum, Alice Brady, Theda Bara, Wilton Lackaye, Douglas Fairbanks, Blanche Sweet, Julia Sanderson, Marie Doro, Pauline Frederick, Robert Warwick, Anita Stewart, Olga Petrova, Norma Talmage, Lou Tellegen, George Behan, Annette Kellerman, Mary Pickford, Lillian Walker, Mabel Normand, Pearl White.

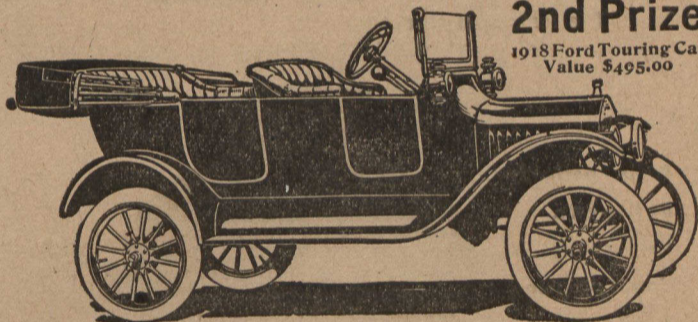
All the puzzle names can be re-arranged to spell out the correct names of one of the great stars. So sharpen your pencil, put on your thinking cap and when you think you have the right names, send your solution promptly to us.

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1st Prize—1918 Chevrolet Touring Car, Value \$750
2nd Prize—1918 Ford Touring Car, Value \$490

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1. Write on one side of the paper only. Your solutions of the names should appear on one sheet with your full name (stating Mr., Mrs. or Miss) and address in the upper right hand corner. Use a separate sheet of paper if you wish to write anything else.

2. Employees of this company and their relatives are absolutely debarred from competing.

3. Boys and girls under 12 years of age will not be allowed to compete.

4. Three independent judges, having no connection with the firm, will judge the qualified entries and award the prizes according to the number of points gained on each entry, the answer gaining 160 points, which is the maximum, taking first prize. 10 points will be awarded for the correct solution of each of the names from No. 1 to No. 9 inclusive (No. 10 being given as a "Key" will not count), 20 points will be given for general neatness, style, spelling, punctuation, etc., 10 for handwriting and 40 for fulfilling the condition of the contest. The

contest will close at 12 noon, April 30th, immediately after which the prizes will be awarded. The names and addresses of the judges will be published in due course and contestants must agree to abide by the judges' decisions.

5. Contestants may send as many as three sets of answers to the puzzle, but only one set may be awarded a prize.

6. In the event of different members of a family competing, only one prize will be awarded in any one household or family. Address your reply to

Movie Contest Editor, Everywoman's World, Continental Publishing Co., Ltd.

145 Continental Bldg., Toronto, Ont.

strokes in the creek on her father's farm, and her meagre skill now stood her in good stead, for she was able to keep afloat until the current threw her against a gravel bar that jutted into the river. She dragged herself ashore, very wet, and of a sudden, very frightened, and sat down on the warm stones. It was here that she recorded another resolution; she would learn to swim—not a feeble

stroke or two, but to be master of this river which had so nearly mastered her. "I will do it," she said. "I will swim it across and back, if it takes till December, and—bu-r-rh—it's cold enough now." Then it occurred to her that there was no better time to start than the present. She looked out a place where the current was not too strong, and where there were no treacherous rocksplits in the

bottom, spread her wet clothing to dry in the sun, and for an hour fought the cold current at its own game.

It is not recorded how it came about, but Arthurs passed the word around the ranch hands that a certain stretch of river bank was sacred from all intrusion.

But it was in the life of the home, even more than the joyous freedom of the out-of-doors, that Beulah found

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her great delight. The Arthurs, she knew, were wealthy—many times richer than her father, who passed as a wealthy man among the farmers of Plainville. But with the Arthurs wealth was merely an incident—a pleasant but by no means essential by-product of their lives. They lived simply, but well; they worked honestly, but did not slave; and in their living and working they shed a kindness and courtesy that communicated itself to all with whom they came in contact. The cowboys, Beulah soon discovered, were as unlike the cowboys of fiction and of her imagination as a Manitoba steer is unlike his Alberta brother; they did not carry revolvers, nor swagger in high boots, nor rip the air with their profanity; and their table manners reminded her of George and Harry Grant, and the Grants were outstanding examples of right living in the Plainville district. And Mrs. Arthurs, gentle and kind in all her doings, and yet firm and strong, and calm, she was—such a woman, Beulah told herself, as her own mother might have been, had her soul not been crushed under a load of unceasing labour.

But, most of all, it was to Fred Arthurs that the heart of the young girl turned. Whether he sat over his desk at his letters, or dispensed hospitality at his table (for all who passed up or down the valley, as a matter of course, stopped for a meal at the Arthurses'), or cantered across the foothills, or shouted behind his lagging herds (such shouting as it was, fit to split the canyons!), or played ball with the boys in the evening, or discussed theology with the travelling missionary, or philosophy with his book-worn neighbour from across the river, or read poetry with his wife on the Sunday afternoons, or sang with his great voice in the mellow, yellow eventide, or—most of all—when he looked at Beulah with his fine eyes, and she caught the mirrored reflection of the hunger in his soul, she felt that here was a man who had lived his life to the uttermost and would go on living it through all eternity. She only half guessed what his thoughts toward her were—she did not know that Fred and Lilian Arthurs had at last agreed that they could do better than leave their wealth to charity, and that a new will was soon to be drawn—but to her he seemed pure gold, and a gentleman to his last gesture. And she vowed one night that if ever she met a single man like Fred Arthurs she would marry him although all the canons and conventions of Christendom stood between them.

And then, quite unexpected, it came upon her, and thrilled her frame from toe to temple. Jim Travers! It had been in the background of her mind for months, the centre of the subconscious processes which culminated in this revelation. Yes, Fred Arthurs at twenty-five must have been such a man as Jim Travers. Jim Travers at fifty would be such a man as Fred Arthurs. She was absolutely sure of it. Jim was living his own life, seeking out that which was worth while, culling the incidental from the essential, just as Fred Arthurs must have done. She remembered with sudden joy how Jim had held a little kindness to her of greater moment than the impatient engine in the ploughfield; the scores of little labours he had undertaken, not as a sacrifice, but as a privilege—as his contribution to human happiness. She would marry Jim Travers. The strange part of it was her sudden certainty that she should marry him. She found herself enveloped in a flame of possession, a feeling that he was hers—hers now, this minute, and hers for ever. Beulah was a fatalist, although she had never analyzed her own beliefs enough to know it, but she knew that Destiny had linked her life with his and that Destiny would not be balked. Her mind had been feeling its way, through the darkness of months, to this sudden ecstasy, but now that she had reached it she felt that it could never fail her. Her sense of possession, of mergerment, was complete; she felt that already their souls had ming-

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led irrevocably and indistinguishably. The arrival of her mother at the Arthurs' ranch had brought fresh joy to Beulah's life. She saw the colour coming back to the old face, the frame straightening up a little, the light rekindling in the eye, the spring returning to the instep. She had not thought that her mother, after twenty-five years of unprotesting submission, had still the nerve to place a limit on that submission, and the discovery had surprised and delighted her. True, Mary Harris let it be known that she was only on a visit, and in due course would return to her home; but Beulah knew the die had been cast, and things could never again be quite as they were. And Beulah told her secret, and her mother just kissed her and let a tear or two fall in her hair.

So this morning, as the girl stretched her young limbs, rounding with life and energy, and the burnt-orange glow of sunrise suffused the room and lit the pink tissues of her slender fingers, she rested in the deep peace which, ever since her revelation, had enveloped her about. For a minute she let her mind dwell on the picture she carried in her brain, until the association became too keen and threatened to overwhelm her from very tenderness; then she sprang from her bed, and, flipping the window blind to the top, drank in the beauty of the valley through the open window. Her bedroom had windows both to the east and the west; and it was her custom to awaken early and feast on the glory as it surged up the valley, and then, turning, watch the long waves of light sink slowly down the white mountains. And this morning, when she thought the first beams must be gilding the highest peaks, she turned to the westward window and saw the light playing under a Chinook arch across a segment of sky so soft and near she could almost feel it with extended fingers. And then a sound caught her ear, and up the trail she saw two men on horseback, a mounted policeman and another, and behind them other men driving in a buggy.

By intuition Beulah knew that a mishap had occurred. The Arthurs' ranch was the first abode of real civilization on the way out from the mountains, and it was nothing unusual for a lumberman with a chopped foot, or a prospector caught in sliding rock, or a river-driver crushed between logs, or a hunter the victim of his own marksmanship, to come limping or riding down the trail to this

the moment the policeman's eye fell on Beulah, and even the discipline of the Force could not prevent a momentary turning of the head.

"I've a badly hurt man here," he said, "a man who will need your hospitality and care for some days. There was a shooting up the valley last night. His father is here, too, unhurt physically, but on the verge of collapse, if I am not mistaken."

"We will bring both of them in at once," said Arthurs. "Beulah, will you call Lillian, and your mother, too? They may be needed. But who is the third?" he continued, turning to Grey.

"A prisoner. It seems the older man overpowered him. Now let us get this poor fellow in."

The policeman beckoned and Harris drove the buggy up to the door. Arthurs glanced at him with a casual "Good-morning," but the next instant his eyes were riveted on the visitor. "John Harris!" he exclaimed, taking a great stride forward and extending his strong arm. "Man, John, I'm glad to see you, but not in these troubles."

Harris took his hand in a silent clasp, and there was a warmth in it that set his heart beating as it had not for years. "It's hard, Fred," he managed to say in a dry voice, "but it's good to have you by."

Arthurs bent over Allan, who was half sitting, half lying, in the buggy. His face was sapped and grey in the growing light. Tenderly the three men lifted him out. "Take him straight upstairs," said Arthurs. "It will save moving him again." Both spare-rooms in the house were occupied, but Arthurs led the way into Beulah's, and they laid the wounded boy on the white bed.

Arthurs heard Beulah in the hall. "Take off his clothes, Grey," he said, and turned to the doorway. "Where's your mother, Beulah?" he asked in a low voice, closing the bedroom door behind him.

"Dressing," The girl looked in his face, and drew back with a little cry. "What's the matter, Uncle Fred? What's wrong?"

"A friend of mine has been hurt, and an old friend of your mother's. She must not see him just now. You will arrange that?"

"Yes. But I must see him—I must help."

Beulah hurried to the room where her mother was rapidly dressing. "A man has been hurt, mother," she said, with suppressed excitement. "We need hot water. Will you start a fire in the range?"



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Mountain Trail West of High River.

haven of first aid. Quickly she drew on her simple clothing and hurried downstairs, but Arthurs was already at the door. The little party came into the yard, and the policeman rode up to the door. The other horseman sat with his back to the house; his hands were chained together in front of him.

"Good-morning, Sergeant Grey," said Arthurs, "You're early out."

The sergeant saluted. The salutation was intended for Arthurs, but at

Mary Harris mistook Beulah's emotion for natural sympathy over a suffering creature, and hurried to the kitchen. Mrs. Arthurs was whispering with her husband in the hall, but a moment later joined Mary at the range.

Then Beulah entered the room. The policeman was speaking to Arthurs. "I must go into town now with my prisoner," he was saying. "I will send out a doctor at once, and in the mean-

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time I know you will do everything possible."

Beulah turned her eyes to the bed. A man was lying there, and an old man was sitting beside it. At the second glance she recognized him, but in an instant she had herself under control. She walked with a steady step to the bed and looked for a full minute in her brother's face. Then she looked at her father.

"What have you done to him?" she said.

He threw out his hand feebly. "You do well to ask me that," he said. "I take all the blame." He raised his face slowly until his eyes met hers. They were not the eyes she had known. They were the eyes of a man who had been crushed, who had been powdered between the wheels of Fate. The old masterful quality, the old in-

domitable will that stirred her anger and admiration were gone, and in their place were coals of sorrow and ashes of defeat. For a moment she held back; then, with arms outstretched, she fell upon her father's breast.

And then he felt his strength return. He drew her to him as all that remained in the world; crushed her to him; then, very gently, released her a little. He found his fingers threading her fine hair, as they had loved to do when she was a little child.

She sank to her knees beside him, and at last she looked up in his face. "Forgive me, my father," she whispered.

He kissed her forehead and struggled with his voice. "We all make mistakes, Beulah," he said. "I have

made mine this twenty-five years, and there—there is the price!"

His words turned Beulah's thoughts to Allan, and the necessity for action brought her to her feet. "We must save him," she cried. "We must, and we will! Is the policeman gone? We must have the best doctors from Calgary." Looking about she found that Grey and Arthurs had left the room. They had slipped out to leave father and child alone with their emotion, but she found them at the front of the house.

She seized the policeman by the arm. "You must get us a doctor—the best doctor in the country," she pleaded. "We will spare nothing—"

"My guest, Miss Harris, Sergeant Grey," said Arthurs, and the policeman deftly converted her grasp into a handshake.

"Mr. Arthurs has told me the injured man is your brother. He shall want for nothing. And the sooner I go the sooner you will have help."

"Your prisoner seems docile enough," Arthurs remarked, as the policeman swung on to his horse.

"Rather a puzzler," said Grey. "Doesn't look the part, but was caught in the act, or next thing to it, and his revolver was found lying on the spot where the young man was shot. By the way, I had almost forgotten. One of the robbers was shot and killed. I had to leave his body, but I wish you would send a man up to stay about the place until I can get a coroner out here."

"Robbers, did you say?" demanded Beulah. "Then it was for robbery?"

"Yes, Miss Harris. It seems your father had a large sum of money on him. We have found no trace of it yet, but it is not likely that more than two were implicated, and as one was shot on the spot this other must know where the money is. We will bring it out of him in due time."

So saying he rode down to the gate, thanked the cowboy who had been keeping an eye on the prisoner, and the two started off at a smart trot down the trail.

(To be Continued)

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GROWING RHUBARB DURING THE WINTER

Fresh rhubarb during the middle of the winter is easily obtained by anyone who has a few spare rhubarb roots in his garden.

Just as the ground is about to freeze at the commencement of winter dig two or three roots, lifting them with as little damage as possible. Put these roots in an outside shed or somewhere else where they will freeze solid but will not be buried with snow. After they have been frozen for two or three weeks, take them indoors, put them into the bottom of barrels, filling in around the roots with soil, sand, sawdust or other moisture holding material; set the barrels in the cellar or some other place where there is some artificial warmth, keep the roots dampened, and cover the barrels with a sack to darken the inside.

Under these conditions a root of rhubarb will grow almost as many shoots as it would during the next summer, and by darkening the atmosphere the shoots will be tender and well blanched. The amount of earth surrounding the root is not very important, as the growth is largely independent of any feeding upon the soil, the material for the shoots being taken directly from the stored food in the roots.

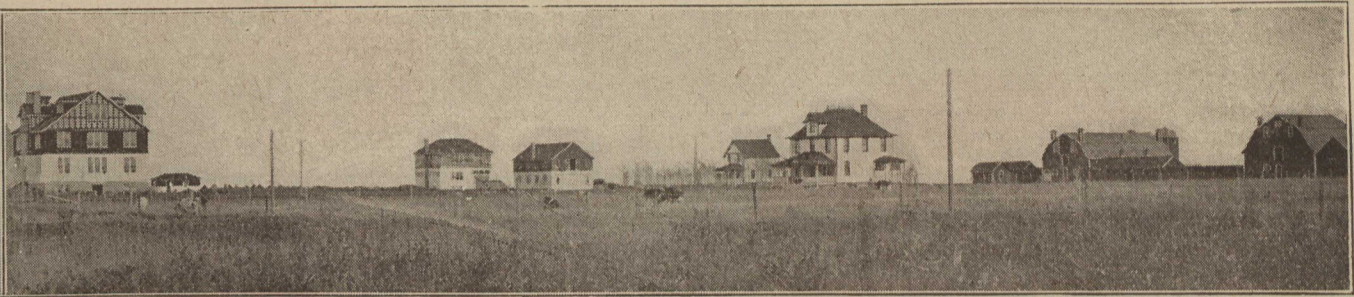
When spring comes the roots may, if desired, be again planted in the garden; but they will be so well exhausted as to require about two or three years to come back to their normal condition.

* * *

Lift up yourselves to the great meaning of the day, and dare to think of your humanity as something so Divinely precious that it is worthy of being an offering to God. Count it a privilege to make that offering as complete as possible, keeping nothing back, and then go out to the pleasures and duties of your life, having been born anew into His Divinity, as He was born into our humanity on Christmas Day.—Phillips Brooks.



PROVINCE OF ALBERTA



Edmonton, December 25th, 1917

TO THE FARMERS OF ALBERTA

THERE SHOULD BE A FEELING of gratification on the part of the Alberta farmer this year. In the Spring he was asked to increase his output of foodstuffs by every means available; to plant a greater acreage and to increase the production of each acre, as far as possible.

HE WAS ASKED TO DO THIS when the cost of labor, of feed and seed was higher than ever he knew it before. And he was asked to so increase his output in spite of these handicaps--which he did.

THE DOMINION FOOD CONTROLLER is now most emphatic in his warning that the shortage of foodstuffs is in danger of menacing the efficiency of the fighting force of the Allies' army; and that the production of wheat and meat products is a prime necessity to the winning of the war. It then becomes the duty of the agricultural forces of Canada to produce and conserve, for use across the Atlantic, the maximum amount of wheat and to convert all our coarse grains into meat for export, and our farming operations should be carried on with this duty and this purpose in mind.

THE LABOR PROBLEM will be more acute next Spring than it yet has been, and farmers would do well to make an effort to keep men employed during the Winter months upon a twelve months engagement plan, so as to be ready for work in the Spring. There will be little doubt but that the price of the crop will be adequate to cover the extra cost of production, so that the farmer is reasonably sure of reward for his effort in a cause that calls for sacrifice, and we confidently hope that Alberta agriculture will make an effort in 1918 worthy the traditions of the tillers of the soil and of the cause for which our sons are fighting in Europe.

HOWEVER, WITH MORE CAPITAL to increase farming operations and an increasing demand for everything that can be produced, we do not expect you to in any way discount your previous record in the coming year, but under our demands again enlarge your output beyond any former year.

THE SPLENDID RESULTS from your farming operations, during the past three years, has greatly increased the demands for our lands.

IMMIGRATION OF UNITED STATES FARMERS into Alberta is greater than at any time in the last four years.

DURING THE FIRST TEN MONTHS of the present year, immigration returns show over 100% increase, and 200% more than 1915 figures.

SPECIAL EFFORTS are being made to encourage immigration in order to make up for the many thousands of able-bodied men going overseas in the service of the Empire.

WE INVITE THE CO-OPERATION of all in this work; the Publicity Department has several publications which give correct information relating to homestead and pre-emption lands, also latest maps of the Province; these are supplied free to all who will write for them. Send the names and addresses of a number of prospective settlers to the Department, and a supply of literature and maps will be forwarded to them direct.

Yours faithfully,

Duncan Marshall

Minister of Agriculture.



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THE Grain Growers Special Fanning Mills do their work of cleaning and separating thoroughly. They are low down compact machines, which make them very easy to operate. Strong wire screens are used exclusively in this mill—a feature which alone adds years to its life. The feed dam above the hurdle gives practically an automatic feed and is regulated from side. When the feed is once set no regulating is needed. The lower shoe of The Grain Growers Special is equipped with a cleaning bar, thus insuring a clean screen all the time. Clogging is impossible. A long mesh screen is used in the lower shoe for taking out oats.

The mills are equipped for general purpose work. Not only will they clean wheat, oats, barley, flax, clover, timothy, etc., but they will also separate wild oats from wheat or barley, and take pin oats out of wheat or oats. A shoe of nine screens each 23 inches long, and six sieves are furnished with each mill.

Before building the G.G. Special Fanning Mill our manufacturers did a great deal of experimenting. This mill was not marketed until it had proved its true worth by rigid tests. Many features were added so that the farmer would have a mill which would do his work well and give lasting satisfaction.

The fanning mills are built so that power attachments can be easily put on. They are made in three sizes. The No. 3 mill (40 inch) always is sold with both power and hand equipment. Special bagger attachments can be supplied, at additional cost, with each machine if so desired.

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