PUBLISHED EVERY WEEK. \$1.50 PER YEAR



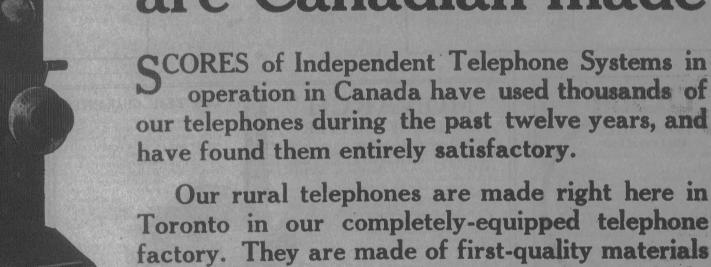
VOL. LII.

AUGUST 9, 1917

LONDON, ONTARIO, AUGUST 16, 1917.

No. 1299

These high-grade telephones are Canadian-made



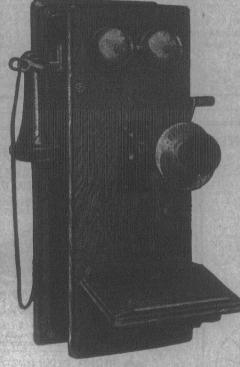
Our rural telephones are made right here in Toronto in our completely-equipped telephone factory. They are made of first-quality materials by workmen skilled in the manufacture of high-class rural telephones, switchboards, and automatic telephones for private lines.

Our telephones are strongly guaranteed, as are also our construction materials. You cannot purchase better rural telephones or get better value. Let us estimate on your requirements. Buy from a Canadian company and keep your money circulating in Canada in war time, where it will do the most good.

Canadian Independent Telephone Co., Limited

261 Adelaide St. West

TORONTO



Free Bulletins

Our No. 6 Bulletin tells all about our rural telephones.

Our No. 3 Bulletin tells how to build rural lines.

Our No. 5 Bulletin describes our private automatic telephone systems for large factories and public buildings.

Our No. 7 Bulletin describes our smaller systems for small factories, homes, garages, etc.

ISMENS UARTERS INGTON M C

MOITINL

gives

arms

action,

l sides.

rd for

ee one

any

AUGUS

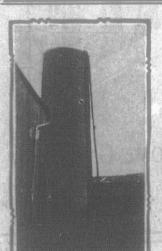
SILO FILLING time will soon be here—and the Canadian Farmer is depending upon the corn crop this year as never before. It is your duty, and it will mean more money in your pocket to use every effort to get ALL the FEEDING VALUE out of every stalk of corn.

The most important thing is to silo your corn crop when it possesses the GREATEST FOOD VALUE. If you get a Gilson Silo Filler NGW—before we are sold out—you will fill your own silo. This means that you will silo your own corn when it is just right for silage. Be independent of the cutter gang. You do not need big power to operate the "Gilson". Your own farm engine—4 h.p. or larger—will do the work.

WRITE FOR FREE SILO FILLER BOOK TO-DAY

It tells the Gilson Story from start to finish—points out the advantages of design, and describes the all-metal construction in such a way that you will understand why our machines cut and elevate more sliage with less power than any other Blower Cutter. This is a matter of dollars and cents to you. A Gilson Silo Filler will, in all probability, pay for itself the first season. Beware of Imitations and Infringements.

GILSON MFG. CO., LIMITED, 389 YORK STREET, GUELPH, ONT.



You need this SILO FILLER



"My Silo is 40' high," writes FRANK BOLTON, Guelph, Ont., "but my 8 h.p. engine which I purchased from you nine years ago operates my 13" ensilage cutter splendidly, sending corn over the top in a steady stream. This outfit is the admiration of all who see it.

JOHN H. MURRAY, Sea View Farm, Cap La Ronde, C.B., N.S., writes: "En-closed find picture of my 10"Gilson Silo Filler, 6h.p. Gilson Engine and 30' Gilson Hylo Silo. I filled my silo with oats, peas and vetch, and it is coming out fine and not a bit spoiled. My outfit does splendid work and I am very well pleased with it."





FRED HEUTHER's farm at Kitchener, Ont., showing his 8 h.-p. Gilson Engine and 13" Gilson Ensilage Cutter filling his 30' Gilson Hylo Silo.

It is as much a part of your Farm Equipment as your Binder or Plow.



M.I.ADOLPH, of Gowans-JACOB N. HAIST, Ridgetown, Ont., declares that his silo filling outfit "is a source of real satisfaction and profit. I would not want to be without my 10" Gilson Silo Filler, 8 h.p. Gilson Engine and 12x30' Gilson Hylo Silo. I have used it for three seasons. enclosed picture shows our 13" Silo Filler and 12 h.p. Gilson Engine hard at work filling our silo. This outfit works beautifully and is as much a part used it for three seasons, of every farm as a binder and have had practically no trouble—it was always ready when wanted."



ville, Ont., writes:

or mower."





Cockshutt Catalogue

will give you valuable farming hints and shows the full line of Cockshutt and Frost & Wood Implements. Write for a copy to-day.

Cockshutt Plow Co., Ltd., Brantford, Ont.

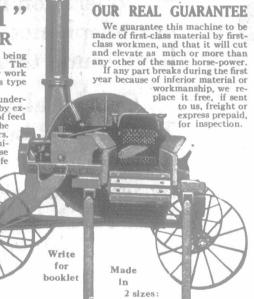
"MONARCH" ENSILAGE CUTTER

The ideal straw and ensilage cutter, being strong and simple, fast and durable. The "MONARCH" will stand all the heavy work and hard knocks that a machine of this type always receives. always receives.

It is built on solid metal frame, rigidly undertrussed, and cannot warp or deteriorate by exposure to weather. Flanges on all sides of feed mouth make it easy to gather feed into the rollers. All gears enclosed in metal covers, Quick, positive action, reverse lever. Semisteel fan wheel, cast in one piece, no loose parts to come off. Highly-tempered knife has straight, heavy blades, easily removable for sharpening. Shear plate is made accialways receives. Shear plate is made accident-proof. We can amply guarantee this machine, because we made it perfect.

See it at Toronto and London Exhibitions, At both fairs we will be in the same locations as last year, and cordially invite your visit and inspection.

Canadian Engines Limited, Dunnville, Ontario



10-inch and

12-inch

throat

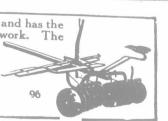
A better separator for less money

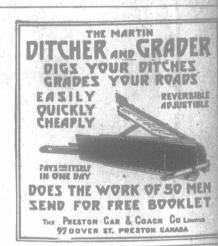
HOOSE the Viking Cream Separator and you save money on the first cost; you save money on repairs. You get a larger capacity with fewer parts to wash on repairs, You get a larger capacity with lewer parts to wash and tewer parts to wear out, and tewer parts to wear out, or rite for your copy of our free descriptive booklet which tells the whole story.

SWEDISH SEPARATOR COMPANY, - 515 South Fifth Ave., Chicago, III.

Cream Separators of Quality

The Bissell Disk takes hold of any soil, and has the "knack" of doing great work. The Disk Plates are of special design—they cut and turn the soil over. The draught is lighter, too, than any other Disk. In fact, you won't find another Harrow that can begin to compare with the record of the Bissell. Write Dept. W for free catalogue. T. E. BISSELL COMPANY, LTD., ELORA, ONT.







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

TRY A PACKAGE OF CRIS

JERSEY CREAM Sodas

Sold Fresh Everywhere

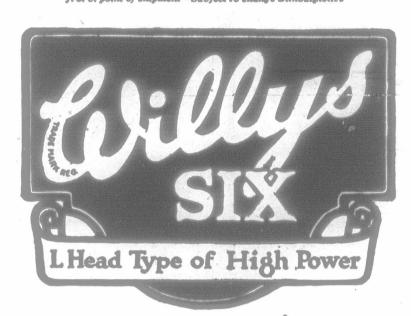
Louden Barn Equipments

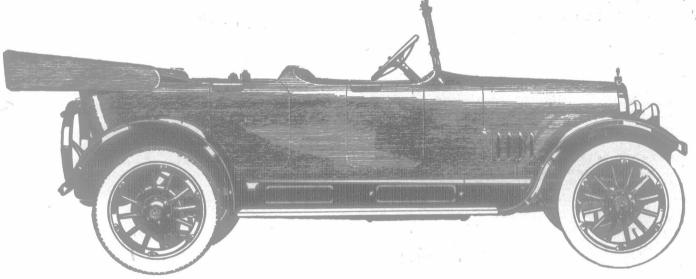
SAVE TIME—Save Labor—Save Expension
Our new catalogue describes every kind
of device for money-making and
labor-saving on farms. Write to: LOUDEN MACHINERY CO. Dept. 1, Guelph, Ont.

When writing please mention Advocate

Seven Passenger

f. o. b. point of shipment—Subject to change without notice





A New Wonderfully Balanced Six Sturdy Light Weight—Abundant Power

This announces a brand new development in Sixes.

Here it is at last!

KLET

TE SILOS

LONDON

Dver 12,000

silos have in Ontario

nd fcr cata

NERY CO.

e Machinery

CRISP

ere

e Expensivery kind g and e to:

RY CO.

Advocate

A popular priced Light Six with weight and power in scientific balance. Think what that means.

Economy and durability in combination with six cylinder advantages at last an accomplished fact.

Don't ask any more why you can't get a durable light weight six with real six cylinder performance.

You can — it's this new Willys Six. By scientific designing with the aid of our great experience in building

Sixes, we have produced a lighter car without sacrificing sturdiness.

Its forty-five horsepower motor combined with its light weight, makes it a wonderful performer.

Quick as a flash on the getaway; speedy: surprisingly economical, yet with worlds of power and the sturdiness to support it.

Think what this means figured

—in greater gasoline economy

—in additional tire mileage

—in an easier car to handle.

Now let the Willys-Overland dealer demonstrate the wonderful performance of the New Willys Six-we want

you to sense what this new balance between power and weight means in an economical, durable light Six.

We want you to know, too, what a wonder the New Willys Six is from the standpoint of easy riding and easy handling.

Also we want you to know what a beautiful car it is-long, sweeping graceful lines—one of the year's most advanced models—a perfect beauty.

And the price!—\$1815 complete!

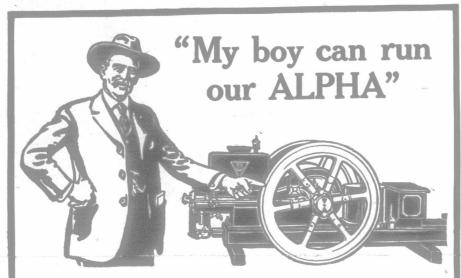
It's the Six you've longed for—go in and see it now-before our dealers are loaded with orders for more Willys Sixes than they can get.

Motor 31/2-inch x 51/4-inch 45 horsepower 41/2-inch tires

120 inch wheelbase 7-passenger capacity Finished in olive green

Catalog on request. Please address Dept. 1160

Willys-Overland, Limited Head Office and Works, West Toronto, Ont. Manufacturers of Overland and Willys-Knight Motor Cars and Light Commercial Wagons



"There aren't many engines I'd trust him with, but the Alpha is so simple that I know he can't go wrong."

Isn't that the kind of engine you want around your place—an engine that is as steady and dependable as the best horse you've got?

The Alpha doesn't have to be "tuned up" every time you want to run it. It contains no electric batteries to weaken and give trouble-no complicated parts to get out of order. To start it you simply oil it, turn on the fuel and give the flywheel a pull.

You need a gas engine and it pays to buy a good one. There are definite reasons why the Alpha is best.

Alpha Gas Engines are made in eleven sizes, 2 to 28 H.P., and each size is furnished in stationary, semi-portable, or portable style, with hopper or tank-cooled cylinder.

THE DE LAVAL COMPANY, Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA. Sole manufacturers in Canada of the famous De Laval Cream Separators and Ideal Green Feed Silos. Alpha Gas Engines, Alpha Churns and Butterworkers. Catalogues of any of our lines mailed upon request.

WINNIPEG **PETERBORO** 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

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





Honoring the Brave!

In the main of the memory of those brave men whose answer to the call of duty has meant the surrender of their lives.

In the making of memorial tablets, the Dennis Company brings to the task a wealth of art-knowledge, a store of experience, and a sense of the fitness of things peculiarly valuable when dealing with this delicate subject.

Write for full information and estimates on brass or bronze memorial tablets, shields, church furniture, etc., to

The Dennis Wire & Iron Works Co., Ltd. London, Canada

YOUNG MEN ON THE FARM WHO CANNOT GO TO WA

Canada Must Have Greater Agricultural Production. Canada Needs Men Trained in the Best Agricultural Practices.

You will be of greater value to your country and to yourself if you acquire all available information regarding your business as a farmer.

You can obtain this information during the fall and winter months at the

Agricultural College, Guelph

The College Term.—The college opens September 21st and closes April 12th. This is convenient for most farm boys, as the hardest work of the summer is completed before the commencement of the term, and students can return to their homes for the spring seeding.

Courses.—The Two-Year Course is particularly designed for young men intending to be good, practical farmers. It includes studies which are of practical value in all the work of the farm. **The Four-Year Course** for the degree of B.S.A. is a two-year continuation of the two-year course.

Expenses.—In order to encourage young men to attend the college, the fees are fixed at the lowest possible figure.

> Board \$4.00 per week. Tuition Fee \$20.00 per year.

Public school education is sufficient for admission.

College Opens September 21st

Write for a calendar giving full particulars.

G. C. CREELMAN, B.S.A., LL.D., President

LII.

If th

Ther must do

Provinci

Whe

always f

promisir they in Gove but in th

down th

Get 1 early la

of wome The should i knows h

in Ontai

no looph their jus The has deci baby she

the H. C The expect r tractors way to h

Keep oatmeal prove m We can

A far -How the first ing with make it

through this year lost time has mad start.

agitators work he should d There m with the

The Farmer's Advocate PERSEVERE Home Magazine ESTABLISHED 1866

ED 1866

art-know-the fitness with this

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875

LONDON, ONTARIO, AUGUST 16, 1917.

1299

EDITORIAL.

We wanted heat and we got it.

LII.

A country of Knights will surely become be-nighted.

If the Russians are not coming they are going, and

There is still a big task to be done in Europe. Each must do his or her part.

Experimental work in field crops is a matter for Provincial control in so far as possible.

Where are all those men our City Cousins were promising to send out to help harvest the crop? Are they in the lake or in the field?

Governments have a habit of doing things by halves, but in the railway problem many think they are cutting down their efforts to quarters.

Get the wheat land ready early. Those who plowed early last year got their wheat in; those who didn't have no fall wheat this harvest.

There are many evidences of the shortage of labor in Ontario, one of them being the increased numbers of women working in the fields.

The farmer's summer resort is the harvest field; so should it be for many an able-bodied city man who knows how to handle a pitch fork.

Canada welcomes a graduated income tax, but wants no loopholes to let excess profits slip by without paying their just share of the war expenditure.

The president of the Canadian National Exhibition has decided to add a class for triplets to the annual the H. C. of L.

The day of the small tractor dawns and farmers expect more of our governments than merely buying tractors to hire out to them at cost. There is a better way to hasten their introduction.

Keep cool. Drink lemonade, a little lime juice, or oatmeal water in place of so much cold water. It will prove more refreshing and not so hard on the digestion. We can get along very well without beer in this country.

A familiar sign appearing outside garages—Free Air -How would it apply over the House of Commons if the first word were changed to Costly, and then in keeping with the weather the word "hot" were inserted to make it timely—Costly Hot Air?

Cultivation and corn crops go together. Keep going through the crop as long as possible. It got a late start this year and something must be done to make up for lost time. There is nothing like the cultivator. It has made many a good finish out of an unsatisfactory

We would like to show some of those misinformed agitators, who not so very long ago were busy at no work heavier than telling farm women what they should do, just what the women on the farms are doing. There might be a few hints as to thrift and war service for the agitators. A trip through Ontario reveals a number of women working at the harvest and all busy with their end of the farm prosperity in the homes.

The Bankers' Competition.

The Dominion Department of Agriculture Live Stock Branch have been endeavoring, and not without a measure of success, to interest Canadian bankers in farming generally, and in the value of live-stock farming particularly. We understand that through the efforts of the Branch arrangements were made some months ago which turned a considerable number of unfinished cattle back to Western farmers to be finished. It was a matter of financing the farmer so that he could handle the stock. This undoubtedly was a wise and profitable move. But the latest announcement pertaining to the activities of the Branch and the banks reveals a rather peculiar arrangement. The banks, in co-operation with the Dominion Department of Agriculture, are offering prizes to boys and girls who exhibit calves and pigs at local fall fairs. The object of the competition is good, viz., to encourage the conservation of good young stock, to further interest the boys and girls in the live stock of the farm, and to develop a closer connection between the activities of the branch bank and the business of farming. This is all right, but the petition is known as the "Canadian Bankers' Competition," and the money awarded as "The Canadian Bankers' Prizes." These terms are taken from the official memorandum sent out to each branch bank manager in which the suggestion is made that local newspapers would likely be liberal in the matter of free reading notices, and which contains the further salve for the readers in the farm home: "When a great institution like a bank takes a practical interest in the live-stock industry of the district, the farm boy will be led to view the matter from a standpoint entirely different from the one to which he has been accustomed."

Readers who go into the matter will wonder why the public money in the hands of the Department of Agriculture should be expended to give free advertising to the banks all over Canada, and to teach the people of the rural districts to look with favor upon an institution which hitherto has expended little, if any, effort to aid them in their work toward a bigger, better and more prosperous agriculture. If the banks were really desirous of doing something for the live-stock or farming industry, why didn't they put up all the money? They have made enough out of the rural districts to warrant the expenditure. The importance of live stock in agriculture and the value of agriculture to their business would justify them in going the whole distance. If the Live Stock Branch desired to do something why didn't they do it and take the credit for it? The banks have no right to accept the people's money from the Agricultural Department and call the competition "The Canadian Bankers' Competition." Nothing is said in the printed circular, we presume put out at Government expense, to inform the public that half the expenditure is Government money which comes out of

the people. Is this all the bankers can do for the cornerstone of the foundation industry of Canada? The farmer and the farm boy have seen too much of the "big institution" stuff to be convinced by such methods. If the banks really want to do something, and we believe they do, why do they not boost the pure-bred sire in each district? They might set aside a fund to be known as cheap money for farmers to buy pure-bred sires. Down in the States, we understand, a big textile firm has gone so far as to offer to purchase pure-bred rams to distribute to sheep owners to improve the quality of flock and fleece. Could not our banks do something worth while in promoting the pure-bred sire? Could not some system of long-term loans be devised to aid the stockman? Would it not be advisable to leave branch managers in one place long enough that they could get acquainted with the farmers doing business at the banks. and thus promote business through a better knowledge of character? Could not the short-term loan idea be

worked up to advantage with stock or grain as security? We do not for one minute question the motives of the Live Stock Branch, or the banks, in this new venture, but it is obviously unfair for the banks to get the full credit when the people's own money pays half the shot, and it is foolish to state that the intelligent farm boy will have an entirely different viewpoint regarding farming simply because he happens to win five, four, three, two or one dollar as the case may be, a prize only half of which is paid by the bank and the other half by the people. It will take more than this paltry sum and the few mesmeric reading notices which may creep into the local papers free to change the viewpoint of the farmer and his boy and girl re both banks and agriculture. The Canadian Bankers' Association is taking a keen interest in the movement and well they might, for it is good business for them. Now, Mr. Banker, you can do better than this. Would you not like to get busy right now? Banks, The Live Stock Branch, the farmer—the nation would benefit from any movement which will put Canadian agriculture on a higher level through closer co-operation all around.

Publicity Of The Power Behind The Press.

From day to day in the ordinary conversation carried on between man and man, remarks none too complimentary to the press of our country are heard. There seems to be a growing feeling of unrest among the common people regarding the policy of some of the press, and to clear away any misapprehension we believe that Col. Currie's proposal that the names of those who control papers should be published should be followed out immediately. The stockholders of the publishing companies should have no objection to such a policy. It would safeguard free speech through the press of the country. It would remove all shadow of doubt from the minds of the people regarding the powers behind the publication, and the paper run in the interests of the people would benefit, while if any there be that are controlled by interests which would seek to prejudice public opinion they would be shown in their true light. Sometimes we hear talk of war profiteers, of monied interests, of cliques and classes controlling large portions of the press. It would be good for all concerned to dispel all the fears by letting in the light on the owners and controllers of the press of the country. It is done in the United States, and should be introduced here right now when many people seem anxious to know more about things generally. The safety of the people depends upon the freedom of the press, and the freedom of the press depends upon the ability to turn on the light.

A Start In Public Ownership Of Railways.

A start has been made in what everyone hopes is the last lap of the race for Government ownership and operation of Canada's railways. The Canadian Northern Railway, as recently announced, has been taken over by the Government which hands out a loan of \$7,500,000 to the Grand Trunk Pacific and allows all others to go on as before. People will commend the Government for having at least enough backbone to refuse to extend any more money to the C. N. R. while the road remained in private hands. Many there are who do not believe the scheme as announced goes far enough. Possibly it was all that could be carried at the moment, but eventually bolder strokes must come. The majority report of the commission appointed to go into the matter was not followed very closely. The Grand Trunk and G. T. P. have insufficient branch lines in the West according to the Drayton-Acworth

The Farmer's Advocate

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

Published weekly by THE WILLIAM WELD COMPANY (Limited).

JOHN WELD, Manager.

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

THE FARMER'S ADVOCATE AND HOME MAGAZINE 1 THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.

It is impartial and independent of all cliques and parties, handsomely illustrated with original engravings, and furnishes the most practical, reliable and profitable information for farmers, dairymen, gardeners, stockmen and homemakers, of any publication in Canada,

TERMS OF SUBSCRIPTION.—In Canada, England, Ireland, Scotland, Newfoundland and New Zealand, \$1.50 per year, in advance; \$2.00 per year when not paid in advance. United States, \$2.50 per year; all other countries, 12s., in advance.

advance.

3. ADVERTISING RATES.—Single insertion, 25 cents per line,

agate. Contract rates furnished on application.

4. THE FARMER'S ADVOCATE is sent to subscribers until an explicit order is received for its discontinuance. All payments of arrearages must be made as required by law.

5. THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper ordered to be discontinued.

responsible until all arrearages are paid, and their paper ordered to be discontinued.

6. REMITTANCES should be made direct to us, either by Money Order, Postal Note, Express Order or Registered Letter, which will be at our risk. When made otherwise we will not be responsible.

7. THE DATE ON YOUR LABEL shows to what time your subscription is paid.

8. ANONYMOUS communications will receive no attention. In every case the "Full Name and Post-office Address Must be Givea."

every case the "Full Name and Post-office Address Must be Given"

WHEN A REPLY BY MAIL IS REQUIRED to Urgent Veterinary or Legal Enquiries, \$1.00 must be enclosed.

LETTERS intended for publication should be written on one

Veterinary or Legal Enquiries, \$1.00 must be enclosed.

10 LETTERS intended for publication should be written on one side of the paper only.

11. CHANGE OF ADDRESS.—Subscribers when ordering a change of address should give the old as well as the new P O. address.

12. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve "The Farmer's Advocate and Home Magazine." Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.

13. ADDRESSES OF CORRESPONDENTS ARE CONSIDERED AS CONFIDENTIAL and will not be forwarded.

14 ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address—THE FARMER'S ADVOCATE, or

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

report, and the C. N. R. is without these in the East. The Government arrangement will not 'remedy these conditions to the same extent as if all three roads had been taken over. However, now that a start has been made it is the duty of those in power to so arrange things as to absolutely eliminate all danger of political control or intrigue interfering with this new venture in public ownership, and to see to it that private interests of any class are not allowed to hamper operations so as to show public ownership in a bad light, The people's rights must be safeguarded against partyism and vested interests. A bad start would give Government ownership of railways a permanent black eye. As it is the Canadian people are disappointed that the Government has not seen fit to take over all roads according to the Drayton-Acworth report.

Nature's Diary

A. B. KLUGH, M.A.

This is the year of the "big run" of Sockeye Salmon in the Fraser River, it being a peculiarity of the Fraser that every fourth year, in the year following leap year, the Sockeye ascend in much greater numbers than in the preceding three years.

On the British Columbia coast there are five species of Salmon usually known in that province respectively as the Sockeye, Chinook, Coho, Humpback and Dog, though each species has several other common names. The Chinook and Coho are much esteemed for use in the fresh condition and certain quantities of all species are canned, but the great bulk of the canned salmon consists of Sockeye

The name Sockeye is undoubtedly a corruption of the Indian name Sauqui. This species weighs from three to ten pounds, though specimens of seventeen pounds in weight are recorded. The average length is two The general appearance of the fish can be seen from the figure. The adult Sockeyes as they occur in the sea are free from spots, the backs are a clear blue and the sides are silver. As they ascend the rivers to spawn their colors change, the upper parts and sides becoming deep carmine, those which ascend the furthest becoming the most highly colored. The color of the flesh is a deep red. The Sockeye spawns only in lakes or in the tributaries of lakes which form the head-waters of rivers running to the sea. Neither the size of the lake, its distance from the sea, nor its altitude are of importance. The fish will force their way through the rapids of the Fraser for hundreds of miles to the snowfed lakes at its head, and they likewise ascend the numerous little streams which drain small valleys and lowlying lakes but a few feet above sea-level.

The first Sockeyes enter the Fraser in April, but they do not ascend in large numbers till the latter part of July, and the run is at its height during the first ten days of August.

The spawning period extends from August to November, and after spawning the Sockeyes, like all the species of Pacific Salmon, die. In this respect the Pacific Salmon are entirely unlike the Atlantic Salmon, which lives to return to its spawning grounds again and again

for several years. The eggs are laid on gravel in shallow water and hatch in the fall or during the winter. The young live for a time on the stored food of the yolk-sac and then begin to feed on small crustaceans and aquatic insects. There is a wide variation in the length of time which the young Sockeyes spend in the lakes or streams in which they are hatched, some descending to the sea in their first year, some in their second and some in their third year. The great majority of the Fraser River Sockeyes run to the sea in their second year, thus having spent one full year in fresh water, while in other rivers, such as the Nass, most of the Sockeyes do not descend to the sea until their third year.

After they reach the sea they are completely lost sight of until they again enter the rivers to spawn, and it is supposed that they at once strike for deep water and remain there until mature. The age at which the Sockeye matures varies from three to seven years, the great majority maturing in four years, though in every run there are many five-year fish. From the time that they leave the sea until they spawn and die the Salmon take no food, and they live during this period on the



Sockeye Salmon.

stored fat and oil-upon those materials which make salmon such a rich article of human diet.

Many may wonder how it is possible to tell the age of a fish with accuracy. It is done by counting the rings on the scales, just as the woodsman counts the rings of a tree-trunk and thus ascertains its age. A fish-scale grows throughout the life of the fish, and this growth is marked by little rings. During the summer, when food is plentiful, the rings are comparatively wide apart, and during the winter, when food is scarcer, the rings are much closer together. Thus when examined under a low power of the microscope the areas of close rings show as dark bands and reveal at once through how many winters the fish has passed. The story which is told by the scales is a very important part of modern fishery investigations, as it not only enables us to tell the age of fishes, but also to separate different races of the same species, since some races which frequent certain particularly good feeding grounds make wider bands of "summer rings" than others. The size of the area of rings of the first summer's growth also gives us information as to the available food supply in the waters in which the fish was raised, information which may be exremely valuable in deciding upon locations for hatcheries.

(To be continued.)

Sandy Lectured on Moderation.

BY SANDY FRASER.

"It's a funny thing," says Jean to me the ither night, as I wis sittin' oot on the verandah takin' a smoke before goin' tae bed, "that people canna' be mair moderate an' canny in their ways than they are. Here's yersel' Sandy, for instance, all played oot wi' warkin' sae hard in the hot sun at the hay. Why dinna' ye tak' things a wee bit easier an' leave pairt o' the wark for tomorrow? But no, ye maun be racin' aboot as though this wis yer last day on earth, an' no preparations made for yer funeral. In a few years frae noo wha will ken the difference whether ye got a' yer hay in before the rain or not? "Hoot, Jean," says I, "what wad ye think o' a mon that wad be sittin' doon for a smoke an' rest in the middle o' the afternoon when he had half a dozen loads ready to gae in, an' it beginnin' tae look like rain?'

"There ye go," replied Jean, "frae one extreme tae the ither. Juist like a' the rest o' humanity. There may be times when one has tae hurry a wee bit, maybe, but what I object tae, is gettin' the habit. And there doesn't seem tae be onything that mon can't turn intae a habit an' carry too far. This warkin' day an' night, for instance. It wis never intended tae be that way. A little wark is a' richt, an' sae is a guid deal o' sleep.

Naebody can do guid wark gin they're short on sleep."
"Weel," says I, "I've known some pretty guid sleepers in my day, an' twa or three o' them landed in the poor-house.

"Na doot," answered Jean, "they were some mair yer extremists. Tak' it in ony line ye like, Sandy, ye'll find it warks oot the same way.

"What aboot eating," says I, juist tae draw her oot.
"Eating is a necessity," she replied, "but the majority o' men turn it into a luxury. The fact that they need a certain amount o' food doesna' cut muckle o' a figure wi' them, but the fact that they want it, is o' vera conseederable importance. An' they're juist as bad when it comes tae drinkin'. They all think they can tak' a wee drap, juist enough tae mak' them sort o' optimistic, ye ken, but first thing they're on their backs in the gutter, maybe; anither object lesson on the result o' gaein' a wee bit too far in one direction.

"Na doot," said I, "there are several ither things that yer rule o' moderation will apply to, that ye has been thinkin' aboot. Ye might gie me the benefit o' yer reflections, gin ye dinna' think talkin' can be overdone like everything else."

"Na doot it can," says Jean, "but I've had naebody

tae talk to a' day in the hoose, sae ye canna' say I'm an extremist in a conversational way. A' the same I think I've known some that were. There's some preachers I ken, an' maybe ye ken them as weel, that hae the remarkable ability o' talkin' for an hour at a time, maybe, an' when they're done ye canna' say that they've really said onything. An' there's a guid mony ither people besides some preachers that talk a lot for naething. I'm no descendin' tae personalities noo."

"Thank you," says I, "gae on wi' yer sermon."

"Weel," she continued, "I ken it's no easy thing tae steer yer course doon the middle o' the road an no' get intae the ditch on either side, but it's tae learn how tae do that vera thing that we're sent into this auld earth. Sae it will dae us na harm tae gie the maitter some conseederation an' tae tak' a few notes by the way, as tae how the warld in general is succeeding in the task. Tak' for instance the general tendency o' mankind tae be gettin' money. A certain amount o' riches is a guid thing to hae, an' vera necessary in a civilized community, but when people get the idea that it is the maist important thing in the warld, an sacrifice health an' happiness an' what little morality they hae, a' for the sake o' a big bank account, then they're on the wrang track, an' it's time that some one hung oot a red flag, gin they're tae be kept frae endin' in a regular smash-up. There's naething mar handy an' useful than the dollar, but when ye get it that close tae yer eye that it shuts oot the sight o'a guid mony ither things o' mair value, it's time ye were

"Oh, I guess you're richt, a' richt," says I, "but what aboot some of the extremes that yer ain sex gae to? Or dae women keep the straight an' narrow way in a' things an' at a' times? Seems tae me there's lot o' guid money wasted in fancy hats an' dresses by them, gin I'm ony judge."

"Maybe ye're a judge an' maybe not," says Jean, "but I'm willin' tae admit that there's a possibility goin' a wee bit too far alang the line o' style an' tryin tae follow the latest fashions at the expense o' comfor an' sometimes even o' respectability. It's na different tae onything else. Ye want tae keep yersel guid an decent lookin' wi'oot wastin' ower muckle o' yer hard earned money in the attempt. I'm thinkin' that a person should dress sae that they will no' be inclined tae gie the maitter anither thought, once the clothe are on their back. This means that naebody is gaein tae tak' a second look at ye on account o' the way re are dressed, an' that is what ony sensible mon or woman

"One thing mair noo, while the spirit is movin you," says I, as Jean stopped for breath, "gie us yo opinion on the social life o' the mon on the farm. Date ye think, as a rule, he's wastin' ower muckle o' his time an' money in the theatres an' high-class restaurants o' the country, or is he inclined tae gae tae the ither extreme an' become a sort o' a hermit, wi' few interests an' fewer possibilities.

"Ye're trying tae joke aboot a serious subject, says Jean, shakin' her heid. "Ye may no' think it but the social problem on the farm is one that is gettin harder tae solve ilka day. Scattered communities get the habit o' livin' by themselves, an' first thing they ken they want tae live that way. An' it's no' richt. A man must keep in touch wi' his fellowman gin he's goin' tae keep his mind clear an' active, sae that he may be of some service tae the warld in return for his board an' keep. I'm unco' feared too, that things are no' gettin' muckle better alang this line at the prestime. It seems tae me Sandy," says Jean, "that people dinna' visit around the way they used to when we were

young."
"That's what I hae been thinkin' mysel'," says I. "but maybe we carried the thing tae an extreme in those days. Dae ye mind how mony guid nights' sleep I lost sittin' up wi' ye afore we were married. There wis plenty o' sociability around there in those days."
"Yes," says Jean, "but I dinna' think ye wad need tae call that gaein' tae an extreme. Ye were a kind o'

a bashful chap, gin I remember richt." "A' the same Jean," I said, "I'm thinkin' we should be classed as extremists. We went an' got married d'ye mind," says I.

Where is all this suitable farm help of which the farmer has heard so much from some city organizations and government officials? Some of the latter even expressed themselves as ready to don overalls but, like certain safety-first colonels, they seem to feel better in the attire they are more accustomed to wearing than in any sort of war-service uniform, overalls included.

If leaving second-growth red clover for seed, 🐶 through the field and pull any weeds which might be there. They are more easily separated from the cloves in the field than after threshing.

tween th encircle one or l bone in and tru growth) joint, bu cause la large. soundne tending consider A tri coffin jo ioint is pastern By invo acute, o Ringbon but the of the d

ment m

larger gr

dispositi can be t

ally be

suffered

concussi

Cause.

Augus'

cancella volves t exudate becomes causing When a cartilage the "The a destroye lamenes possible from di blow, 1 seldom Sym lamenes

others n

times e

disease

or join

comes of

less acu

oughly

coffin or is situat diseased parent before noticed visible e tends up shows a ness in visible ment u parent. somewh presence feeder into the fat or ot tion. R in bone stroys t be treat and the into bor

involved

ossificat

cease to into one

flammat

be fault

longer pr

united

notwiths joint. Treat practitio does not largemei its inner convince any sys largemer hastenin this is no and lam irritation which p ternal in ylosis, w

and lame

THE HORSE.

Bone Diseases—IV

Ringbone is a term applied to a bony deposit between the fetlock and coffin joints. The deposit may encircle the whole limb, or may be noticeable only on one or both sides, or in front only, but is called ringbone in all cases. Ringbone is of two kinds, viz., false and true. A false ringbone is an exostosis (a bony growth) on the bone between the fetlock and pastern joint, but it does not involve either joint, and does not cause lameness, except in very rare cases when it is very large. Some consider that it does not constitute unsoundness, but as there is a danger of the growth extending and involving a joint, a horse affected should be considered unsound.

A true ringbone is one in which either the pastern or coffin joint, or both, are involved. When the coffin joint is diseased it is called low ringbone; when the pastern joint is involved it is called high ringbone. By involving the articulation these cause more or less acute, obstinate, and in some cases incurable lameness. Ringbones whether high or low vary greatly in size, but the degree of lameness is not indicated by the size of the deposit. An animal with a very small enlargement may go very lame, while another with a much larger growth may show only slight lameness.

Causes.—In many cases there is a hereditary predisposition, and if the breeding of the animal affected can be traced back for several generations it will generally be found that an ancestor, more or less remote, suffered from the disease. The direct cause is usually concussion during progression. By this means inflammation is set up in the inner layer of the bone (called the cancellated tissue). This inflammation extends and involves the outer layer, (called the compact tissue); an

exudate is thrown out; this becomes converted into bone, causing the visible enlargement. When a joint is involved the cartilage which covers the ends of the bones and is called "The articular cartilage," is destroyed and this causes acute lameness. While probably it is possible for a ringbone to result from direct external injury as a blow, kick, etc., it is very seldom that such occurs.

Symptoms.—In most cases lameness is irregular in the early stages. Sometimes lameness will be well marked, at others not so acute, and sometimes entirely absent. As the disease advances, and the joint or joints become more thoroughly involved, lameness becomes constant and more or less acute. In cases where the coffin or navicular joint (which s situated within the hoof) is diseased, lameness is often apparent for considerable time before any enlargement can be noticed, as there can be no visible enlargement until it extends up the pastern bone and shows above the hoof. Lameness in these cases is often diagnose is there is no visible cause, but the enlargement usually soon becomes ap-

parent, when the diagnosis can be confirmed. The somewhat common idea that ringbone is due to the presence of some abnormal organ, or object called "the feeder" and that the removal of this feeder by cutting into the fetlock pad and dissecting out a quantity of fat or other tissue, is, of course, totally without foundation. Ringbone is purely a disease of bone; it originates in bone, and while it involves other tissues, and destroys them, it is essentially a bone disease and should be treated as such. The inflammatory action continues and the exudate thrown out becomes ossified (converted into bone). When the articular cartilage of a joint is involved it becomes destroyed, and as the process of ossification continues the bones of the joint become united (this process is called anchylosis) and of course cease to act as a joint, two or more bones being united into one. When anchylosis has become complete, inflammation subsides and lameness ceases. There may be faulty action, owing to a stiff joint, but pain is no longer present, and the animal will go practically sound, notwithstanding the partial or complete stiffness of the

Treatment.—In treating a case of ringbone the practitioner aims at simply curing the lameness, he does not attempt to remove the enlargement. The enlargement is a growth of bone—the bone is diseased to its innermost parts, hence a little consideration should convince an intelligent man that it is not possible by any system of treatment to effect a removal of the enlargement. Treatment should be directed to the hastening on of the process of anchylosis, as, so long as this is not complete, inflammatory action will be present, and lameness will be shown. This is done by counterirritation, either by blistering or firing and blistering, which produces a superficial irritation increases the internal inflammation and hastens the process of anchylosis, which is followed by a subsidence of inflammation and lameness. In quite young animals repeated blister-

ing may effect a cure, but in most cases it is wise to fire and blister at first. This should be done by a veterinarian. It is often noticed that the patient will go lame for a considerable time, sometimes for ten to twelve months, or even longer, after the operation, as the process mentioned is sometimes very slow. When a recovery has not taken place in ten to twelve months, it is well to fire again, and if this fails to effect a cure in reasonable time, we may decide that the case is incurable and the only means of removing the lameness is by the operation of neurotomy which consists in removing the nerve supply to the foot. The operation can be performed only by a veterinarian. It does not cure the disease, but removes lameness by removing sensation. As the process of repair and decay continues in the foot after the operation, in just the same manner as before, and the animal will not show symptoms of pain, hence is liable to become totally useless from various causes, it is not considered wise to operate until after the ordinary modes of treatment have failed.

WHIP.

LIVE STOCK.

Mixing Rations for Growing Pigs.

It frequently becomes necessary to purchase feeds for the swine in summer when the grain bins are low and no threshing has been done. Under such circumstances we have seen young pigs fed almost exclusively on shorts and slop or water. In the two latter liquid refreshments there is not much difference, except when the swill barrel becomes sour and filthy in which case the water is the better. Good shorts or middlings are splendid for young pigs, but the ration can be improved for swine, varying around six weeks to four months of age, by the addition of finely ground oats. Even though they must



Getting Acquainted.

be purchased, it will pay well to use them. Any class of live stock does better on a mixed ration and this truth can well be applied to the feeding of swine. As the hog develops, oat-and-barley chop and shorts are suitable; but even this mixture will be improved upon by the addition of say, one part of oil-cake meal. Where milk is available it should, of course, be used, but thousands of hogs are turned off annualy that never see milk after being weaned. At the Ontario Agricultural College it has been found profitable to feed small quantities of tankage. Where milk is not obtainable, ten to twelve per cent. of the ration can consist of tankage without injury to the pigs, or to the efficiency of the ration.

Ontario's Graded Wool Sales.

Although the market is clamoring for wool in order to supply the extraordinary and abnormal demands upon it we must give considerable credit to the co-operative grading system in Ontario this year for the prices obtained and the strengthening influence it exerted on the trade. A few producers became somewhat dissatisfied because their cheques were not forthcoming at once and on account of shipments lost in transit. With the latter unfortunate circumstance the Executive had nothing whatever to do, except, in so far as possible, to trace and recover it.

That is only an example of what has often taken place in all lines of shipping since the railroads have been subjected to unusual demands upon their equipment and man power. As to the cheques, it was to be expected that some time must elapse between the receipt of the wool and payment for same. A quarter million pounds of wool had to be graded, sold, baled and shipped. This would have entailed a considerable amount of clerical work if the account had only been a single one, but there were 1,500 consigners, each of which

must receive a statement regarding his own product—weights, grades, prices, etc. This made a stupendous amount of clerical work which delayed payment somewhat, but then one should be willing to wait a little while for an additional remuneration averaging around 10 cents per pound.

We fully believe that had wool producers been aware of the advantages offered by the co-operative grading system, more would have patronized it. However, those in charge of the movement will have to make preparations to handle a much larger volume in 1918.

Exercising Show Sheep.

It is common at the fairs to see herdsmen and grooms exercising their cattle and horses, but shepherds are not so painstaking. Highly-fed sheep and lambs should be exercised mildly, and it is quite as important as with the horse or cattle beast. During the fitting period and the strain of the show season exercise should be a part of the daily routine, for only in this way can the entry be kept in the best physical condition. "Shepherd Boy" in the book on "Modern Sheep" writes thus:

"To keep your show animals in best possible condition they must be regularly exercised unless the weather is particularly hot. Early morning and late evening is the best time to attend to this work. No show sheep can keep healthy without proper exercise, but of course this must be of a gentle kind. Little trouble is experienced in exercising sheep after they have once become accustomed to the daily program. Of course, the rams and the ewes should be exercised separately. Where exercise is neglected sheep often become 'groggy,' that is, weak on their legs. It is just as important to exercise show sheep, which, of course, are very highly fed, as it is to exercise show horses, and everybody knows that a horse that is not working could not long keep in good health where his bill-of-fare is the same as when he is working hard.

"Rarely do show sheep, after a long railroad journey, take kindly to their feed for some time after being unloaded. This is due to broken rest attending such journeys. As soon as they have become well rested they take readily to their regular meals again. It is poor policy to drive them from the station to the fair grounds in very hot weather, especially if it be a long distance between the station and the grounds. On no account should they be driven any considerable distance in the heat of a mid-summer day."

The Difference in Sires.

In contributing a description of some of the impressive sires that came under his observation from 1863 to 1898 to Sinclair's History of Shorthorn Cattle, Robert Bruce, a British live-stock man of note, wrote as follows: "Not alone amongst cattle but amongst all breeds of our domestic animals, males and females occasionally crop up possessed of a power beyond others of transmitting a uniformity of type and character to their progeny. In many cases it is quite impossible to arrive at any satisfactory explanation as to the reason why this power should be possessed by one animal more than another. In the case of what is known as closelybred animals the possession of prepotent power may be said to follow as a natural consequence, and many bulls that were bred at Kirklevington, Killerby, Warlaby, and Sittyton can be singled out as instances of the impressive power of the Bates, Booth and Cruickshank When, however, we look into the matter we find that even amongst such closely-bred sires as those in the herds just named, animals have appeared having a power beyond others of leaving a uniform impress upon their progeny. Instances can be given when own brothers, equally good looking, were of very different values as sires, the one earning a reputation as being exceptionally good, and the other of being a very indifferent getter. Such instances are pointed to as sufficient reasons for the belief held by many breeders, that it is cally of the above used, and his steek seep it is only after a sire has been used, and his stock seen, that a reliable estimate can be formed of his value."
Whitehall Sultan, as a Shorthorn, and Perfection

Whitehall Sultan, as a Shorthorn, and Perfection Fairfax as a Hereford, have been living examples of prepotent sires on this side of the ocean. Their progeny even to the second and third generations, bear certain likenesses to their progenitors which render them of value to the breed and to the live-stock industry. Robert Bruce's words, however, emphasize the necessity of having a junior sire tried out before the old bull goes off the field of action. A young fellow may look all right, but he is a question mark until his get reveal the virtues inherent in him and which he is able to trans-

Principal Appointed for Kemptville School.

W. J. Bell, B.S.A., has recently been appointed Principal of the Agricultural School which the Ontario Government is establishing at Kemptville for Eastern Ontario. Previous to taking the course at Guelph Mr. Bell taught school, and since graduating has been connected with the Institutes Branch of the Ontario Department of Agriculture and has done a good deal of instruction work in different sections of Ontario. He is recognized as a good live-stock man. His appointment takes effect September 1.

NDED 1866
If think they k' them feel g they're on object lesson

ither things that ye has the benefit o' can be overhad naebody nna' say I'm
A' the same

nna' say I'm
A' the same
There's some
as weel, that
an hour at a
nna' say that
a guid mony
alk a lot for
alities noo,"

sermon."

o easy thing the road and it's tae learn and into this tae gie the a few notes is succeeding tendency of a amount of excessary in a great the idea are warld, and ttle morality occount, then

e that some

be kept frae

aething mair

the sight o' a time ye were says I, "but r ain sex gae narrow way me there's a n' dresses by

," says Jean, possibility o' vle an' tryin' se o' comfort and different resel guid an' to yer hard nikin' that a ' be inclined the clothes ody is gaein' ' the way ye on or woman

"gie us yer e farm. Dae nuckle o' his se restaurants tae the ither few interests ous subject," no' think it, hat is gettin'

munities get t thing they t's no' richt. man gin he's sae that he eturn for his at things are the present "that people then we were sel'," says I, extreme in nights' sleep ried. There

those days."
ye wad need
ere a kind o'
n' we should
got married

of which the ty organizae latter even alls but, like eel better in tring than in cluded.

for seed, go ch might be m the clover

A

EDI

in 1 He

gene

Не

of a

and

ecut

and

beer

pow

the

ever

retu

back

or g

cond

goin

car t

drive

the a

Grea

point

Ge

men

True

or ha

but t

have

know

been

adva

Educ

But,

· cern

THE FARM.

Fall Cultivation

No sooner is the season's crop harvested than preparation must be made for the next. It used to be a general practice, and is yet in some sections, to gangplow all stubble fields not seeded. Of late years a combination of circumstances rather than any single one is responsible for the change. Scarcity of help, together with silo filling, leaves little time for after-harvest cultivation. Unless the work is done soon after the crop is harvested the benefits accruing therefrom are lessened. Loosening the soil tends to the conservation of moisture and the germination of weed seeds. The young weed plants start growing, but their mission in life is nipped in the bud when they are later turned under with the plow to return to the soil part of the fertility they had drawn from it. Fall cultivation aids materially in solving the weed problem, especially where annual and biennial weeds have to be dealt with. This system may not eradicate persistent perennials but it weakens their vitality. The question of moisture conservation is not given very serious consideration by the majority of people. At some season of the year there is usually a greater rainfall than is required at the time, but it is generally followed by a prolonged drouth. As the woods are cleared, giving the wind a greater sweep, this condition is becoming more prevalent. The amount of evaporation from a field not covered with a crop or a dust mulch, which takes place on a bright, windy day, is greater than is generally supposed. A compact soil sheds rather than retains the rainfall, and the rainfall during the growing season is only about half of what is required by plants. Water must be held over in the Where time is available it is believed advisable to give more fall cultivation than is generally practiced. Successful farmers have stated that they invariably get more bountiful returns where after-harvest cultivation is given than by leaving the stubble field until late fall before plowing. Another method which is giving good returns is the sowing of red clover with grain crops in the spring and then plowing the crop under in the fall. This adds humus and nitrogen to the

Where the gang-plow is used the furrows should not be over two and one-half or three inches deep. The nearer the weed seeds are kept to the surface the more quick-ly they will germinate. We have seen fields gang-plowed and then nothing more done to them until they were ridged up in the fall. The effects of the work are partially lost unless a stroke or two of the harrows or cultivator are given. The latter aids in bringing root stalks of perennial plants to the surface. The soil is also pulverized, which helps to hold the moisture and makes later plowing much easier than it would have been had no cultivation been given. The effects will be noticed the following spring; as a rule it will be easier to make a good seed-bed. However, on certain soils it has been found that the use of the gang-plow tends to make the soil run together, which is undesirable. With four horses on a wide cultivator or disk, a stubble field can soon be gone over and the surface inch or two of soil loosened up. A couple of times over with these implements may do almost as satisfactory work as could be done with the gang-plow and certainly in less time.

Later in the season when the corn and most of the roots have been harvested the most of the deep plowing or ridging-up is done. By this time all the weeds which germinate in the fall have done so and some fields may be quite green. The jointer or skimmer might well be more generally used. While it may increase the draft on the horses slightly, it causes all weeds and grass to be completely buried in the furrow, which not only improves the appearance of the plowed field but tends toward the destruction of the weeds. Without the light the plants cannot survive long, consequently a more general use of the jointer would aid in keeping the fields freer from weeds and grass.

In some districts the practice is to plow both sod and stubble from five to eight inches deep, depending on the soil, as soon as the work can be done after the crops are harvested. Fields so treated are then given frequent cultivation up to the time that winter sets in. No growth is allowed to get a start, thus many weeds are destroyed. The sod being plowed early has a better chance to rot than if plowed late in the fall, which makes it easier to prepare the seed-bed in the spring. The wide-shared cultivator is a very good implement to use late in the fall, as it leaves the soil in shallow ridges and gives the frost a better opportunity to pulverize it than if the surface were left flat. It is believed that many of our soils require more cultivation than they have been receiving in order to liberate the plant food which nature has provided. Where possible loosen the surface soon after the crops are harvested. What will destroy weeds and lessen the evaporation of moisture at most seasons of the year will work towards heavier vields of the cultivated crops.

Preparation For Fall Crops.

BY DR. C. A. ZAVITZ, O. A. C., Guelph, Ont.

The year's crop production depends in no small degree on the amount of crops sown in the autumn, and to the cultivation of the land before winter, preparatory to spring operations. In general practice in Ontario the autumn sown crops are few in number consisting mainly of winter wheat and winter rye. In addition to these, hairy vetches and winter barley are used to a very limited extent. Timothy and a few of the other grasses are occasionally sown with wheat in the autumn.

Experience and experiments have shown that winter rye is exceedingly hardy, and that fall wheat usually survives the winter. Winter barley is more tender than winter wheat, becoming more or less killed in about one-half of the winters, but when it survives it generally gives high returns. One variety of winter barley has been grown at the Ontario Agricultural College for twenty-four years, one of the objects being to secure a hardy strain. Timothy, Orchard Grass, Meadow Fescue and Tall Oat if sown with winter wheat early in September generally give satisfactory results. As red clover, alsike clover and alfalfa nearly always winter kill the sowing should be deferred until spring. These seeds can usually be sown to good advaneither on the old snow, or still better on a fresh snow of one or two inches after the old snow has disappeared When sown in this way no harrowing is required, and the clovers commence growth as soon as the weather conditions are favorable, and before the winter wheat or the winter rye has made much of a start

Preparation of the Land.

Both winter wheat and winter rye do well on a summer fallow or on sod land, especially if the sod is clover. The land should be ploughed quite early in August and worked on the surface occasionally during the month. If stubble land is used for winter crops the soil should be worked on the surface as soon as possible after the spring grain is removed in order to conserve moisture and start the loose seeds to germinate, thus helping to clean the soil. This land should be ploughed if possible the last week in August, and in most cases immediately harrowed, rolled and again harrowed. This tends to pulverize the soil and conserve moisture in the making of a good seed bed.

Preparation of the Seed.

It is important, not only to properly prepare the soil, but also to use seed of high quality. In the results of fourteen varieties of winter wheat grown under conditions in each of twenty-one years there is an average difference of over nine bushels per acre per annum between Dawson's Golden Chaff which is the highest, and the Treadwell which is the lowest in yield of grain per acre. Both of these are white wheats, and have been grown extensively in Ontario. The Dawson's Golden Chaff, for the twenty-one year period, has given

an average of 51.3 bushels, the Imperial Amber 47.9 bushels, and the Early Genesee Giant 46.8 bushels per acre. The Imperial Amber is a red wheat of good milling quality although the straw is not quite as stiff as that of the Dawson's Golden Chaff. Other varieties which have given high yields per acre, and which resemble the Dawson's Golden Chaff in most characteristics are the American Banner and the American Wonder. The wheats of the Dawson's Golden Chaff class sell readily at good prices for the manufacture of breakfast foods and of pastry, but are not as high in bread-making qualities as some of the red wheats. The Kharkov, the Yaroslaf and the Crimean Red are all red, bearded wheats, with medium quality of straw, which yield fairly well and produce grain of excellent quality for bread production. These are comparatively new varieties and are not grown in general cultivation throughout Ontario.

In order to secure a winter wheat more suitable for growing in Ontario than any of the existing varieties, crosses have been made between the Dawson's Golden Chaff and some of the varieties of particularly high quality for bread production such as Crimean Red Turkey Red, Tasmania Red, Bulgarian, Imperial Amber and Buda Pesth. In each of the past five years one of our new cross-breds has surpassed all other named varieties in yield per acre. In the autumn of 1916 we distributed to the farmers of the Province, through the medium of the Ontario Agricultural and Experimental Union, the O. A. C. No. 104 winter wheat. This was a cross between the Dawson's Golden Chaff and the Bulgarian. It possesses largely the strength of straw, the yield per acre, and the beardless quality of the Dawson's Golden Chaff, and the good milling qualities and the color of the chaff of the Bulgarian, in fact the new hybrid has surpassed either of its parents in productiveness. We hope that this wheat will prove good service in connection with the winter wheat production of Ontario. We expect to again distribute the O. A. C. No. 101 variety this autumn for co-operative experiments, but it is not yet grown in sufficient quantity for general cultivation in the larger fields.

It is important to sow large, plump, sound wheat of strong vitality, and which is free from weed seeds. Experiments have been conducted at the Ontario Agricultural College in seed selection with winter wheat for over a dozen years. The average results show an increase in yield of grain per acre of 6.8 bushels from large as compared with small seed, of 7.8 bushels from plump as compared with shrunken seed, and of 35.6 bushels from sound as compared with broken seed Seed which was allowed to become thoroughly ripened before it was cut produced a greater yield in both grain and straw, and a heavier weight of grain per measured bushel than that produced from wheat which was cut at any one of four earlier stages of maturity. Winter wheat which becomes sprouted in the field before it is harvested is greatly weakened for seed purposes. Tests made of wheat which was more or less sprouted show the importance of using only sound seed. The following results give the average percentages of germination from each of four selections: skin over germ, unbroken, 94; skin over germ, broken, 76; sprouts one-quarter inch long, 30; and sprouts one inch long, 18. Not only were the sprouted seeds low in germination but plants produced were very uneven in size and lacked vigor.

As the acreage of winter wheat is much lower than usual in Ontario this season we would suggest that those farmers who have a good crop should aim to thresh the grain as soon as possible after harvest and advertise the seed which they have for sale. By so doing they would render a real service to many other farmers who will be very desirous of securing good seed wheat in these abnormal times. All farmers who intend sowing winter wheat should get it ready early by thoroughly cleaning the grain so as to have seed of the best quality and ready for sowing at the most suitable time.

Treating Grain for Smut.

In each of ten years experiments have been conducted in treating winter wheat in different ways to prevent the development of stinking smut, and the results have been quite satisfactory. In the average of five years, untreated seed produced over four per cent. of smutted heads, while seed which was immersed for twenty minutes in a solution made by adding one pint of formalin to forty-two gallons of water produced a crop which was practically free from smut. This treatment is simple, cheap and effectual. The sprinkling process also gives fairly good results but is not quite as thorough in eradicating the smut entirely.

Dates of Sowing.

The dates of sowing winter crops vary considerably cwing to the season and the condition of the land. Under average conditions it would probably be correct to state that winter wheat should be sown on stubble land about the first of September, on well prepared sod land during the first week of September, and on land which has been well summer-fallowed in the second week of September. If the land is very fertile and well adapted to wheat growing, the season of sowing may be later than where the conditions for growth are more severe. Winter rye will stand later seeding than winter wheat, and while it probably does the best to sow early in September it can often be sown from the middle to the end of the month with satisfactory results.

Conclusion.

Owing to the high price of wheat, and to the great value of this important crop to meet the requirements of food supply at the present time, farmers will undoubtedly aim to sow as large an acreage as possible this



Doddies at Pasture

a

comp turn, things if we public or co locks Many have fluent portu we b somet no m forma when their who c or hig answe call of I not a frontii a ques may o ally co there chosen college which the ca college planni medica ceded

trainin

knowle

tarmer.

intentio

ED 1866

nber 47.9 bushels

t of good

e as stiff

varieties

which reharacter-

American

nufacture

as high

wheats

Red are of straw, excellent

paratively iltivation suitable varieties,

s. Golden

arly high

ean Red

Imperial

five years

all other

utumn of

Province,

tural and

er wheat. len Chaff

strength

s quality d milling

Bulgarian,

ts parents

will prove

er wheat

distribute

operative

quantity

nd wheat

ed seeds.

Ontario

ter wheat

show an hels from hels from d of 35.6

en seed

y ripened oth grain

measured

Winter efore it is es. Tests ted show

following

rmination

inbroken.

e-quarter 18. Not

ation but

size and

wer than

gest that

to thresh

advertise

oing they

farmers ed wheat

nd sowing

oroughly

st quality

conducted

prevent

ults have

ve years, smutted

twenty

f formalin

which was

is simple, cess also

thorough

siderably

the land

e correct

n stubble

pared sod

on land

e second

and well

ving may

are more

an winter

sow early

middle to

ne.

autumn. Would it be too much, even in spite of the scarcity of labor, for the farmers of this Province to endeavor to sow one million acres of winter wheat for the coming year?

A Farmer's Views On Machinery Repairs.

EDITOR "THE FARMER'S ADVOCATE":

26, the article on "The Importance of Farm Machinery and Repairs" seems to call for a little comment. We understood you to say that the farmer was refused repairs because of a shortage of workmen and material. We do not think this the real reason. If the farmer had asked for a new horse-fork outfit it is our opinion he would have been supplied, and we believe that any manufacturer who can furnish new goods can furnish repairs if he wishes. The real reason, in our judgment, is that the farmer was refused repairs in order to make On the editorial page, 1194, in your issue of July more profit out of him by selling him a complete new

outfit. This is no new thing. Some time ago a man in this locality was told that the plowshare he wanted could not be bought. There are plenty of plows like his in this locality. No reason is given. The only reason I can imagine is to force the sale of new plows. We think there are large sums of money fleeced out of the farmers by the simple process of refusing repairs. The meat-packing business is not the only one needing light turned on it

Lincoln Co., Ont.

Automobiles, Farm Machinery and Farm Motors.

Stop The Thieves.

We were in a certain Canadian city the other day and meeting a friend upon the street, enquired of him in the customary fashion, "How are things going?" He replied that he could not speak of the situation in general, but that so far as his little automobile was concerned it was certainly "going, or at least had gone." He had been foolish enough to leave it running in front of an office building while he transacted some business, and upon his return to the curb, the machine had executed a disappearing act at the instance of some thief or "joy rider." Subsequently we found out that it took Subsequently we found out that it took the police ten days or two weeks to locate the machine. and that when they found it considerable damage had been done to the fenders, the running boards and the power plant itself. There is a big lesson to be learned from this incident. Perhaps you are not familiar with the fact that a tremendous number of cars are stolen every summer season. A big percentage of them are returned to their owners, but of those that are brought back practically 90 per cent. are injured either slightly or greatly. Motorists themselves are to blame for this condition. In the first place, it is bad policy to leave your car running if you are going to be absent or it is going to be out of your sight any length of time. A car that is in operation can rapidly be put in gear and driven away. If the motor has been stalled, however, the amateur may not be able to start it or may fear to do so. Perhaps the best precaution is to buy a lock, of which there are a great many upon the market. Great care should also be taken in the selection of a point to leave your car. Most garages with big yards

will allow you to park your machine for a short time without charge, but if you are in a strange city, we would strongly suggest that you pay the small fee asked of any garage for an hour or two of storage. You are going to be safe under these circumstances. If owners will do everything possible to stop thieving and "joy riding," they will benefit themselves in just the same manner that they have done by combining to secure good roads. Insurance companies are giving a fair rate for theft insurance, but if automobile people persist in putting temptations in the way of thieves, in-surance companies must of necessity raise their rates. In practically all the provinces of the Dominion there are penalties for the theft and for the joy riding of cars. By the latter expression we mean the driving away of a machine, not for the purpose of permanently retaining it, but for a pleasure trip with the intention of discarding it in some obscure spot. Most of the joy riders are young boys who do not see the lawlessness of their acts, and who some way or other have imbibed a feeling that their misdemeanor will be overlooked.

The man who pays for an automobile should be wise enought to figure that some system of locking it is a justifiable additional expense. There are a great many systems for leaving a car practically secure. In the higher priced models, keys are provided for locking the ignition switch and preventing anyone but an expert from moving the motor. It is true that this system of locking can be beaten by re-wiring, but in most cases the thief will not go to any such trouble. For the small cars, locks have been devised which cover the switch. There are also types which have combinations upon them and others which are worked with plugs. A

system that is a little bit cumbersome but nevertheless valuable, consists of a chain and tire lock. Those who are at all expert with a power plant can remove from it some effective part which instantly puts the balance of the mechanism out of commission. For instance, it is possible to take away the rotary switch from some electrical systems and so make it impossible for anyone to start the engine. Lever locks that cost very little money are useful, and can be procured almost anywhere, and there is the very common system of chaining a wheel to the bumper or to one of the springs. necessary for us to explain all of the one hundred and one systems of tieing up a car so that it cannot be easily operated, for any accessory garage or repair shop will explain all available methods to you. The point we wish to emphasize and make plain, is that the time has arrived when motorists should use every precaution to prevent theft in their own personal as well as the

public's general interests.

We do not think the time is far distant when some kind of legislation will be enacted, making it necessary that all the vital knowledge of each machine sold to a retail buyer to be immediately registered within a certain radius. If information regarding such serials as the engine, body, frame, transmission, etc., were constantly available at all garages, no thief could make good in the hiding of a machine or in its retention unless he was able to keep it permanently in repair. Men who make a practice of stealing automobiles are not usually owners, and so sooner or later must be com-pelled to seek a garage. It is at this step of their criminal career that it is most easy to detect them and to return the lost motor to its proper owner.

Canada's Young Farmers and Future Leaders.

Get all the Knowledge You Can.

'Knowledge is Power", says Bacon, and we have evidence of the fact in our everyday life. The educated men and women are the leaders in every walk of life. True, some of the most renowned are self-made men, or have not had the advantages of a higher education, but they have read and thought and studied until they have a firm grasp on their own business and a working knowledge of things in general. What might have been expected of these men had they been given the advantages of studying in our excellent halls of learning? Education makes the man, provided he uses it properly. But, sad to relate, some who have had the greatest opportunities have made a failure of life. Emerson says: "The world exists for the education of each man." If trained our eyes to observe and our minds to comprehend, we find something worth while at every turn, but too few have acquired the habit of seeing things and profiting thereby. The fault is in ourselves if if we cease learning when we turn our backs on the public school. Without further attendance at school or college the information gained at public school unlocks the door to higher things if we but apply ourselves. Many who never secured a good public school education have made a success of their business and have been influential in their communities. However, if an opportunity is afforded to attend high school or college we believe it should be accepted. Knowledge is something which is easy to carry around, and which no man can take from you. Even though some information gained may seem useless, the time may come when it will serve you well.

College halls throughout the country will soon have their doors opened to receive young men and women who desire to gain a higher education than the public or high school afforded. Many college students have answered the call of their country and sophomores, juniors and seniors returning this fall will miss the hearty call of many of their former classmates. Will I or will I not attend college is a question which is probably confronting many young men at the present time. a question which must be decided by oneself. Others may offer suggestions, but you are the one who is vit ally concerned. This is an age of specialization and there are colleges and schools to give training in your chosen line. By the time most young men reach college age they have an idea of the line of work for which they are adapted, although this is not always the case as some change their minds after attending college for a couple of years. However, a young man planning to be a proficient farmer would hardly enter a medical college, and vice versa. It is generally conceded that it is necessary to have special education and training to enter any of the professions but that the knowledge gained at public school is sufficient for the farmer. Consequently, if a young man announces his intention of entering one of the professions, every

effort is made to assist him in his studies, but it is entirely different with the lad who decides on farming as a life work. Some parents have the idea that learning leads a boy away from the farm, while others claim special education is not necessary. It will depend on the young man as to the benefit derived from a college training. He should have a definite aim in view and work to that end. Passing examinations, while essential to securing a degree, does not necessarily indicate the amount of practical information a student is ab-

certain soils should be plowed deeper than others? Why certain crops should follow each other in the rotation? Do you know about balancing a ration for the different classes of stock? Do you know the history of the different breeds or are you able to write out a pedigree? Do you know the noxious weeds and how to eradicate them, or how to control the insects which attack the farm crops? How about judging stock—can you place a class and give reasons for your placings Can you tell the different breeds of poultry apart and

outline a satisfactory method of housing and feeding a flock? Can you run an incubator or brooder? Do you undermilk and cream? Then there is horticulture, vegetable growing, chemistry, drainage, farm mechanics, apiculture. English literature, composition, public speaking, etc., which are included in the curriculum. You may know the general principles of farming, but at the agricultural college you learn the why of things, which enables you to work more efficiently and to take greater interest in the daily routine on the farm. It gives you a broader vision; it enlarges your horizon of

The studies are not the only educative features at the college. Some time should be set aside for attending the different society meetings at which you should take an active part. You will find an opportunity for debating and public speaking at the literary society meetings. If a musician, you

will be called upon frequently, so don't forget to take your instrument along. The Y. M. C. A. holds interesting meetings and does much good work. A certain amount of time spent on the football field or in the gymnasium is not wasted.

Plan to get the most out of your college life. Go with that idea and don't tie yourself up to one or two things. Be sociable. You will meet fine fellows of many nationalities and from them you may



Farm Implements Ruthlessly Destroyed by Retreating Germans. A French official photograph that is mute evidence of the ruthless destruction of all the farming implements found by the Germans retreating before the French. International Film Service.

sorbing. Some who only make a fair average on all subjects make more practical men than those who head

Don't imagine that because you have been raised on a farm that the work at an agricultural college will be easy and that you can have a good time at the begining of the term and yet make a good standing at the Christmas examinations. You may know how to plow and harrow and feed stock, but do you understand why

the great uirements undoubtsible this

learn about customs in their home lands. You may enter college with the idea that you know a good enter college with the idea that you know a good deal, but the more you study the more you see there is to know and by the time you reach your junior or senior year you will begin to think that after all you are quite insignificant in this big world. Education opens the eyes to the vastness of things and to the great possibilities in life. If you have an opportunity to attend college, seize it but don't be content with just getting a smattering of knowledge about the various subjects. Delve deep; get at the bottom of things. If you do not grasp certain things in the lectures, If you do not grasp certain things in the lectures, have a talk with the professors. They are ever ready to help you. To only half know a thing may lead to many complications, as Pope has said:

"A little learning is a dangerous thing; Drink deep or taste not the Pierian Spring; Their shallow draughts intoxicate the brain, And drinking largely sobers us again.

THE DAIRY.

Occasionally a cow goes lame at this season of the year. In many cases this trouble could have been avoided if a little attention had been paid to the feet. The hoofs become too long and break, causing much pain to the animal. Prevention is in trimming the feet early in the season.

If concentrates must be purchased for winter feeding, get quotations now. Prices are generally lower during the summer and early fall than during winter and spring. If you do not require a carload yourself call up a neighbor or two and buy co-operatively. Better prices are quoted for car lots than for single

Some dairymen stable their cows during the day and find that it pays. The cows are not bothered so much with flies and are out of the hot rays of the sun. Hay, silage or green feed can be given in the stable, and will give the pastures a chance to pick up a little. This system helps to maintain the milk flow at a time when it usually drops below normal.

The extent of the profits is largely regulated by the milk flow. Many have been content with only a fairly good average yield, and have not exerted themselves to increase production by use of better sires or weeding out the poor milkers. Now when feed prices are high they find it difficult to make ends meet. The cow that gives 8,000 pounds of milk in a year brings in nearly twice the net revenue from the 4,000-pound Set a high standard and aim at reaching it.

During July twenty-eight Holstein cows and heifers qualified for enrolment in the Record of Performance. Canary Queen De Kol was first in the aged class with a record of 19,867 pounds of milk and 737 pounds of fat. Plus Pontiac Artis with 20,911 pounds of milk and 816 pounds of fat to her credit headed the four-year-old class. In a class of nine three-year-olds, Desta 2nd was first, having produced 16,231 pounds of milk and 537 pounds of fat. The two-year-old class was headed by Molly Rue Rattler 2nd. Her record is 9,133 pounds of milk and 361 pounds of fat.

Between June 21 and July 25 twenty-two Ayrshire ows and heifers qualified in the Record of Performance The average test was around 4 per cent. butter-fat. In the mature class Chief's Buttercup of Fernbrook 2nd was first having given 13,453 pounds of milk and 438 pounds of fat. Grace of Fernbrook was first in the four-year-old class with a record of 12,940 pounds of milk and 503 pounds of fat. Bud's Minnie 2nd headed the three-year-old class with 9,853 pounds of milk and 386 pounds of butter-fat. In the two-yearold class Violet of Gladden Hill was first with 9,015 pounds of milk and 376 pounds of fat.

The leading Holstein cows and heifers in the yearly test in the United States are: aged cows. Duchess Sky lark Ormsby, 27,761 pounds of milk and 1,205.09 pounds of fat; senior four-year-olds, Keystone Beauty Plum Johanna, 25,787.5 pounds of milk and 1,035.77 pounds of fat; junior four-year-olds, Queen Piede Mercedes, 30,230.2 pounds of milk and 1,111.56 pounds of fat. Senior three-year-olds, Duchess Hengerveld Korndyke, 22,897 pounds of milk and 903.38 pounds of fat. Junior three-year-olds, Finderne Holingen Fayne, 24,612.8 pounds of milk and 1,116.05 pounds of fat. Senior two-year-olds, K. P. Manor Kate, 22,106.4 pounds of milk and 818.73 pounds of fat. Junior two-year-olds, Finderne Mutual Fayne, 22,150.4 pounds of milk and 960.51 pounds of fat.

Dairymen report a marked falling off in the milk flow. This year was no exception for pastures drying. Millfeeds are so high in price that many find it unprofitable feeding them. Milk has not increased in price in accordance with concentrate feeds. Some cheaper feed must be found to substitute the pastures during July and August in order to allow the dairyman to secure living wages for himself and family. Silage, green feed, as alfalfa, red clover or oats and peas, cut and fed in stable, spring-sown pasture crops consisting of oats, wheat and barley, or hay have been fed during the drought with gratifying results. Plan to plant a few acres more corn or sow a soiling crop next spring. It is a safe guess that the pastures will dry next year the same as they have in the past. A little hay fed night and morning may save the situation this year. Corn

may soon be fed. As yet it contains little of nutritive

There were twenty-four Holstein cows and heifers received and accepted for entry in the Record of Merit during the month of July. The mature class was led ceived and accepted for entry in the Record of Mouring the month of July. The mature class was led by Lady Waldorf Pietje, with a record of 772 pounds of milk and 28.31 pounds of fat. In thirty days this same cow produced 3,265.6 pounds of milk and 117.48 pounds of fat. Jemima Johanna of Llenroc was first in the Junior four-year-old class with 501 pounds of milk and 18.47 pounds of fat. Countess Walker Segis was the only senior three-year-old qualifying. Her record was 524.4 pounds of milk and 21 pounds of fat. In the junior three-year-old class Colony Wadmantje In the junior three-year-old class Colony Wadmantje Newman was first, with 587.9 pounds of milk and 20.08 pounds of fat to her credit. The senior two-year-old class was headed by Toitilla Pontiac Tot; in the seven days she gave 410.5 pounds of milk and 17.12 pounds of fat. The junior two-year-old Het Loo Pietertje made a sensational showing which brings her into the world's championship class for butter in the seven, thirty and sixty-day divisions for heifers of this age. Her seven-day record was 578 pounds of milk and 26.25 pounds of fat.

Economical Feeding of Dairy Cows.

The feeder of dairy cows for profit is confronted with The feeder of dairy cows for profit is confronted with a difficult problem, which has been gradually becoming more serious with the higher prices prevailing. All classes and varieties of feeding stuffs used by dairymen have increased from 25 to 75 per cent. in value and in some instances, notably corn and bran, the increase has been even greater. During the same period—within the last year—there has been a very small, relatively speaking increase in the price of butter and other dairy speaking, increase in the price of butter and other dairy products, which amounts in most localities to less than ten per cent. This situation requires that the dairy-man must either be content with smaller profits and even losses, feed more economically, or increase the average production of his herd to insure profitable dairy-

Not only are all feeds abnormally high priced, but the so-called carbohydrate feeds—cornmeal and barley, are also higher priced than many of our protein feeds. Corn, ordinarily worth less than a cent and a half per

pound, is now selling for over three cents per pound. Other carbohydrate feeds, while perhaps showing a smaller relative increase in price, are very costly. suggests, then, that one may well feed less corn in the ration than would otherwise be true; a practice recommended by many of our best feeders when prices are

While roughages are much more expensive than formerly, they are still our cheapest sources of food nutrients. The largest possible use of silage, hays, and all forms of roughage is, therefore, doubly important; since it is both an economical policy and one admirably suited to the present emergency. It is likely, also, that the feeding of grains and concentrates capable of being utilized for human food consumption, should be avoided wherever practical. In the case of cows which are being kept for the production of economical dairy products without attempting advanced registry work, the more limited use of concentrates is not only more economical but also a better public policy to pursue; this in spite of the urgent necessity of keeping production at a maximum. This can not be done unless the dairyman

receives a reasonable return for his services. The serious effects of the winter upon the clover and alfalfa indicate that a more extended use of silage will be of considerable importance. While some farmers may have prepared to meet the emergency through the use of oat and pea hay, soybean, or sudan grass hav. the larger number will probably need to depend upon fodder and silage. Silage is a cheaper source of energy for dairy cows than alfalfa, and no dairyman with even a small herd can afford to be without it, because of its

succulence, palatability, and economy. Regarding economical and efficient rations for dairy cows, that will necessarily depend upon local conditions in so far as they effect feed prices. I do not believe that Distillers' Dried Grains, cottonseed meal or oil meal have increased in price nearly as much as corn. Peanut meal is another cheap source of protein at present prices. In fact, protein feeds are relatively cheap, and since it is thought they may stimulate milk production,

a ration with a narrow nutritive ratio may profitably be supplied. The following ration may be criticized for being too narrow:

Distillers' Dried Grains......1 Cottonseed meal, oil meal, or peanut meal..... Brewers' Dried Grains or gluten

But I believe by using the cheaper feeds where a choice is indicated, it would be economical from the standpoint of results. Ground oats and bran, costing \$40 to \$50 per ton, while recognized as very good dairy feeds, are not included because of their excessive cost

This problem of economy must be handled by every dairyman, and the ration most admirably suited for one may be entirely unsatisfactory to another. Many are handicapped by not being in a position to secure a large variety of feeds, and must fix up their ration as best they can with the feeds available. By duly considering the relative economy of the different feeds, a fairly satisfactory ration can be secured, although it will be considerably more expensive than formerly.— Prof. L. S. Gillette, in the Ayrshire Quarterly.

Dairy Progress in the Prairie Provinces.

During recent years the dairy business has gone ahead by leaps and bounds in Manitoba. A few years ago that Province was looked upon by Easterners as solely a grain-growing district, but at the Provincial Fair recently held at Brandon the dairy division had a display which emphasized the improvement in quality and quantity of dairy produce. In 1912 the output of creamery butter was 2,936,138 pounds, while in 1916 it was 6,574,510 pounds. During the same period the output of cheese increased about 210 per cent. These figures convey some idea of the change in methods of farming which is taking place. The practice in the Province of buying cream on grade and selling butter on grade has received in a marked improvement in the on grade has resulted in a marked improvement in the quality of the manufactured product. In Alberta there has also been a marked increase in

the output of dairy products. On large placards in the Dairy Department, at the Edmonton Exhibition, the following information was brought to the attention of visitors. In 1914 creamery butter to the extent of 5,450,000 pounds was manufactured in Alberta, but in 1916 the output reached 8,521,784 pounds. The cheese output increased from 70,591 pounds in 1914 to 600,000 pounds in 1916. The dairy cow is gradually proving her value in the Prairie Provinces. The results of experiments conducted at the Lacombe Experiment Station were also set forth on large cards. On one it was shown that the cost of producing butter ould be reduced 20 per cent. by the use of oat and pea

silage. With timothy hay it cost 31 cents to produce a pound of butter, with green sheaves 20 cents, and with the silage 16 cents. This shows the value of silage for dairy cows. Ontario dairymen can grow corn for silage, which is generally considered to be more economical feed than the oats and peas. However, in districts where corn cannot be grown successfully the two grains mentioned could be ensiled for they make very satisfactory feed, as evidenced by the results in Alberta and elsewhere. Profits from the dairy herd are influenced in no small degree by the system of feeding followed and the quality of the individuals comprising the herd.

A Clean Yard.

In the spring and early summer when there were frequent rains, many barnyards had the appearance of a quagmire, and the cows were forced to wallow through it going to and from the stable. Not only did the udders become dirty, but in many cases the filth caused thrush or a festering to start where the hoof is cloven. Lameness set in, causing a falling off in milk. Now, when the weather is fine the yard is reasonably dry, but there is likely to be another wet spell this fall. possible put the manure on the land either for wheat, roots or meadow. This will not only make it better for the cows, but it will stop waste by leaching. When the cows' udders become soiled just previous to milking it increases the life. ing it increases the difficulty of producing clean, sanitary milk. Owing to having to wash the udder, it takes longer to do the milking. In many instances the manure pile could be placed on the opposite side of the barn from which the cows enter the yard without increasing the labor of cleaning the stables. Possibly it only requires the cutting of a door in the shed wall or adding a few feet more to the litter carrier track. Look over the situation and see if you cannot arrange things so that the cows will not have to tramp through slush up to their knees this fall and next spring. It will pay to the have at least a high and dry pathway leading to the stable if the entire yard cannot be kept dry.

D 1866

tably be

ized for

a choice

andpoint

) to \$50

eeds, are

by every

secure a

ation as

uly con-

feeds, a

nough it

merly.-

rie

ne ahead

ago that

solely a

r recent

display

lity and

utput of

n 1916 it

riod the

thods of

e in the g butter nt in the

crease in

ry prod-

cards in ment, at

hibition, ormation

ne atten-

In 1914

the ex-

Alberta, output pounds.

increased

in 1914

in 1916.

gradually

The re-

nts con-

ombe Ex-

were also

cards. On

that the

butter

per cent

and pea

produce a

and with

silage for or silage,

nical feed

here corn

nentioned

ory feed, lsewhere.

no small ne quality

nere were

arance of through

did the

th caused

is cloven.

ably dry, s fall. If

or wheat,

it better

to milk-

, sanitary

it takes

ne manure

the barn

increasing

only re-

or adding

ook over

things so slush up ill pay to

ng to the

When g.

Now,

in the

pounds

These

Many

nds

POULTRY.

Feed the Growing Flock.

Examine the growing chicks for vermin. Sometimes they become infested with lice which sap their vitality. You cannot expect them to do well under such conditions. Give the chicks every chance to develop properly. If winter eggs are to be gathered the pullets must be well fed. This is where some are making a big mistake. Because feed is dear the pullets are kept on a maintenance ration. A flock so fed cannot be expected to lay early this fall. It would be more profitable to select a few of the best and feed them well and market the rest rather than feed a large number sparely and get no returns when prices are good. It must be remembered that green feed and grubs do not contain sufficient nourishment to produce eggs. A little grain is required. Now that the new crop is on the birds will find considerable feed in the fields adjoining the barn. They will pick up a lot of grain that would otherwise be wasted. What about the grain fields farther back on the farm? Are the broken heads and shelled grains to lie there and rot at a time when prices of grain and of stock which consume grain are high?
We know the difficulty of getting the flock to go

far from the buildings, but many poultrymen overcome the difficulty by drawing the colony house to the field or erecting some improvised house in the grain field to shelter the growing flock. It might pay you to try this method this year and see how it works out. birds will require a constant supply of water and this may entail a little extra work, but one man gets over the difficulty by drawing a barrel of water to the field and by means of a tap provides for a continual dropping of water into the basin. By this method a barrel of water will last a considerable time. The basin should be scoured occasionally, and if a little potassium permanganate were put in the water to colour it, it would serve as a disinfectant and might prevent spread of disease. In a large flock there is likely to be several birds suffering from colds or mirror ailments which might prove serious if not attended to. Separate affected birds from the main flock so as to run no risk of heavy mortality in the fall. To make poultry raising profitable the flock must be given constant attention and be fed more than a maintenance ration.

Don't Allow Mites to Stay in the Hen Pen.

A certain flock of hens which had been laying fairly heavily since the new year suddenly ceased laying when the hot weather set in. Soon they began roosting outside instead of in their customary place. At first little was thought of it, the cause being attributed to the excessive heat. However, on making an inspection of the roosts and nests it was found that they were literally covered with red mites. Now, the hen cannot effectively fight these enemies herself, as they attack during the night and retreat to the cracks and crevices about the pen for the day. They do not remain on the birds' body as do the lice. They had no doubt become so annoying that the hens left the pen, and hens cannot be expected to lay when infested with vermin. Kerosene poured on the roosts, around the nests and in the cracks in the wall will exterminate the red mites, and a dust bath or dusting the hen with a louse killer will rid the birds of lice. Examine the hen-house and if vermin is found apply some remedy. Feed is too high in price to allow the egg yield to be decreased by mites or lice which can quite easily be checked

Egg Production Unusally Low.

The egg and poultry reports of the Live Stock Branch, Dominion Department of Agriculture, for the week ending August 7, is to the effect that the market continue. Receipts of fresh-gathered eggs concontinue arm. tinues extremely light; production is unusually low at the present time, owing to the scarcity of feed, and it is believed that once the new crop becomes available that eggs will be more plentiful. In Montreal the receipts for previous week were 4,824 cases, as compared with 11,763 cases for the corresponding week last year. The receipts from May 1 to date were 179,075 cases against 262,635 cases for the corresponding period a year ago. In New York the receipts were considerably less the past week than the week previous. At country points throughout Ontario 40 cents per dozen was reached, while throughout the West 35 cents was the highest. The retail price to consumers in Toronto for eggs of extra quality was 45 to 46 cents; in Montreal, 42 to 45 cents; Winnipeg, 35 cents; Edmonton, 30 to 35 cents; Regina, 35 cents; Ottawa, 48 cents; Charlottetown, 34 cents; and Vancouver, 45 cents.

HORTICULTURE.

British Apple Embargo Likely to Remain.

Prospects for the removal of the British embargo against Canadian apples are not bright. Speaking in the British House of Commons, on August 6, the Admiralty Under-Secretary held out no hope for the removal of the prohibition against Canadian apples, stating that space on East-bound vessels could always

be used for cargo of more importance than apples. Leading fruit growers in some districts are optimistic in regard to the disposition of the crop, expressing the opinion that the movement on foot to conserve exportable food material and as much as possible to consume the perishable kinds will help towards an increased consumption of apples. It is also hoped that the same campaign will tend to keep the influx of the United States product low in volume. Come what may, the growers should be organized and ready for any emergency. A light crop in Canada will of course help to alleviate conditions but with the export trade cut off, it will be no use to adopt the Wilkins McCawber attitude and wait for something to turn up. At the present time it appears that large selling firms and well-organized co-operative associations in close touch with markets, would have the easiest sailing when the time comes to do

business, and that time is not very far away. Those who have made a practice of consigning their fruit abroad or have dealt with firms whose connections are likely to be severed on account of the embargo, will do well to group themselves with other reliable growers and build up an agency through which to market the crop to advantage. A high-quality pack at the beginning will do much to inspire confidence in the buying public and make for repeat orders. All through the eason the greatest care should be taken to keep the output up to high standard, allowing no specimens in the barrels or boxes that will detract from the appearance or value of the remaining product. Josh Billings once said "When in doubt, you may be sure the doubt is right." Bear this remark in mind when considering size, color, or defects.

Modern Methods of Packing Apples.

In Bulletin No. 2 of the Fruit Commissioner's series entitled, "Modern Methods of Packing Apples," there is information that every fruit grower should have at hand. Barrel and box packing is fully explained and illustrated by P. J. Carey and A. H. Flack respectively. Following are a few notes, taken from the Bulletin, in regard to barrel packing:

See that no nail points project either inside or outside the barrel.

No packer can be considered strictly honest who has two sets of baskets, one for "facers" and the other for "fillers." The "facers" must be taken from the general pack.

Use the iron hoop heading block; it is much easier on the apples than the ordinary wooden press head

Avoid pounding unnecessarily upon the heads of the barrels to drive the heading into the croze. A few gentle

taps properly directed is all that is needed. Mark the name of the variety and the grade immediately in lead pencil near the chime, with the initials or number of the packer to serve as a guide when the proper stencilling is done. All permanent marks should be made with stencils and brush.

Wire hoops make a very poor barrel.

In all operations in connection with packing study simplicity and directness of motion. The work is light, but every motion is often repeated. Let each operation be completed with the fewest possible motions and, therefore, with the least possible effort. Having selected a method of work, let it be done the same way every time till the process becomes almost automatic.

Bad habits are sometimes unconsciously acquired by packers and sorters. Do not toss the apples about on the packing table every time you wish to select a specimen. It is quicker to select from the apples in view, and much better for the fruit.

Cleanliness should be observed in every part of the

Decayed fruits should be disposed of so as not to contaminate either the packing house or the outside

There should be facilities in every packing house to enable packers to keep their hands clean.

Apples that have to be wiped present a much better appearance if this is done within a few hours after they are picked. It can also be done much more quickly. The following notes on box packing are also concise

and to the point: 1. Learn to size your fruit accurately, and the

placing in the box is a simple matter.

2. All apples are placed in the box in the same relative position. It cannot be impressed too strongly upon beginners that all sizes and shapes of apples can be preparly and conveniently pecked in the standard be properly and conveniently packed in the standard

Canadian apple box. 3. Successful packing can only be done with apples of a uniform size in each box. There is no possibility of using an apple larger than the size being packed, and then attempting to straighten the row by using a small

4. Cleanliness cannot be too strongly insisted upon in every feature of box packing. Fingermarks upon boxes or careless rubbing in of moisture and dust are all too common. The most scrupulous attention should be given to the fruit, and all specimens rejected that are not absolutely free from contamination of any sort.

5. Should there be any dust or spray material upon the apples when picked, it is much easier to take it off at that time. If the apples are allowed to stand they acquire a certain gumminess that renders it difficult to

make them look clean. 6. Box packing is the repetition of the same motions many hundred times a day. If, therefore, even one unnecessary motion is made with each specimen, it becomes a serious handicap in a day's work.

7. Packers should keep their finger nails well trimmed, otherwise injury is frequently caused by puncturing the fruit handled, resulting in decay. In the Western States packers are required to wear white

Fruit should be uniform in color as well as in

FARM BULLETIN.

Live Stock the Feature of Saskatoon Exhibition.

The best exhibition yet held in Saskatoon was staged July 30 to August 3. The outstanding feature of the exhibition was the live stock exhibit, which excelled all previous efforts in volume and quality. The judges were called upon to pass judgment on as fine a line-up of Clydesdales, Percherons and Belgians as has been seen in the West this year. The cattle entries were heavy, and there was stiff competition in the sheep and hog classes. While there were a number of entries in the different breeds from outside the Province, local breeders exhibited some fine stock. The educational exhibits of the Dominion Government and Provincial Experimental Stations attracted a good deal of attention. They were similar to the displays at the other Western fairs

In the Clydesdales, Ben Finlayson again secured the highest honors. In Percherons, George Lane, of Calgary, won the championship in the male classes on Marvel, and Annie Laurie, owned by S. Brown, of Merid, was awarded the mare championship. The chief competition in the Shorthorn classes was between the herds of J. G. Barron, and J. A. Watt. Barron secured the senior and grand championship on Augusta's Star; the reserve going to Watt on his senior calf, Gainford Seal. Watt secured the senior championship in the female classes on Thelma 3rd, but was defeated for the highest honors by Barron's Lavender 46th. L. O. Clifford, of Oshawa, secured the highest honors in both the male and female Hereford classes. J. D. McGregor won both grand championships with his Aberdeen-Angus cattle.

The dairy classes were well filled, and the honors were awarded similar to those at Regina; Laycock winning in the male classes for Holsteins, and Clark and Sims in the females. Ness exhibited a large herd of Ayrshires but had no competition. J. Harper & Sons

took all the championships in the Jersey classes.

The judges were: Clydesdales—Fred. Richardson,
Columbus, Ont.; Percherons and Belgians—R. E.
Drennan, Canora, Sask.; Shorthorns and AberdeenAngus—Capt. Thos. Robson, London, Ont.; Herefords—
Recommend Capt. Mandand Callege One; deire certifications of the control of t Prof. Barton, Macdonald College, Que.; dairy cattle— James Boden, Danville, Que.; swine—Prof. Wood, Manitoba Agricultural College; sheep— A. J. Macdonald, Man.

Annual Meeting Of the Canadian Seed-growers' Association.

The annual meeting of the Canadian Seed-growers' Association for the year 1916-17 was held in the Canadian Building, Ottawa, on July 31st and August 1st. Dr. Jas. W. Robertson, President, occupied the chair. The reports submitted showed that never before in the history of the Association has the value of systematic work in the improvement of seed been more apparent than during the past season. The number of applications from individual farmers who wish to carry on this work under expert direction is 285, this being much the largest number ever received during any one year. The total number of farmers now affiliated with the Association is 1,504. Plans were discussed for ad-Association is 1,504. Association is 1,504. Plans were discussed for advancing the work still further and of adapting it to meet after-war conditions. The problem of assisting in creating a source of supply of pure, vital and productive seed in sufficient quantity to meet the needs of newcomers and others is an important one, and, therefore, received special consideration at this confer-The matter of encouraging the production of registered seed potatoes on a substantial scale in certain districts of New Ontario for use in the older-settled parts was discussed at considerable length. The Association expects to co-operate with the Provincial Department in this work, and looks forward to rather large developments. The officers elected for the ensuing year are as follows: Dr. Jas. W. Robertson was re-elected President, as was also L. H. Newman as Secre-tary-Treasurer. The Board of Directors consists of 18 members, and is composed of prominent authorities from each of the Provinces.

South Peel Notes.

EDITOR "THE FARMER'S ADVOCATE":

At the time of writing, August 9, very much hay lies still unharvested; the rain at the commencement of the hay harvest and scarcity of help being the principal reasons. The hay crop was mostly all fair in this district; the wheat crop is practically a failure; spring crops good, although the rain has flattened out much of it. The corn crop is good although not so long as in some years. The apple crop is light; small fruits are good. The potato crop is the best for years. Although most of the people are doing with less help, the cities deserve credit for the way they answered the farmers'

Peel Co., Ont.

JAS. B. Ross.

Toronto, Montreal, Buffalo, and Other Leading Markets

Week Ending August 9.

Receipts and Market Tops.

Dominion Department of Agriculture, Live Stock Branch, Markets Intelligence Division

	CATTLE						CALVES					
	Receipts		Top Price Good Steers			Receipts			Top Price Good Cal		Calves	
Toronto (Union Stock Yards)	Aug. 9 19 5,095 5, 753 983 1, 4,467 2,	150	Week Ending Aug. 9 \$11.00 10.80 10.85 9.00	8.50 8.50 8.50 7.25	Week Ending Aug. 2\$11.0010.5010.509.25	73 44 37 34	ng V . 9 1 . 32	673 173	347	13.50	Same Week 1916 \$12.00 10.50 10.50 9.00	13.00

WinnipegCalgary				9.00			342	173	301	10 . 50	9.00	12.00 11.00 -
Toronto (Union Stock Yards)	Week Ending Aug. 9 6,887 1,262 614 4,720	2,674 4,540 1,213 6,572	Week Ending Aug. 2 3,700 645 444 4,848	Week Ending Aug. 9 \$17.25 17.75 16.60	12.75 12.75 12.00	Week Ending Aug. 2\$17.0016.2516.25	2,238 1,515 719 440	7,776 2,234 1,559 1,268	Week Ending Aug. 2 1,008 944 461 179	Week Ending Aug. 9 \$17.25 15.50 12.50	Price Good I Same Week 1916 \$12.00 11.50 10.25 8.50	Week Ending Aug. 2 \$16.50 15.50

Market Comments.

Toronto (Union Stock Yards.)

Twenty-two hundred cattle were offered for sale on the market on Monday, and as this supply was scarcely sufficient for trade requirements, prices advanced from 10 to 25 cents per hundred on most grades of cattle. With more liberal supplies coming forward during the remainder of the week, prices held about steady on choice cattle but were a trifle weaker on the medium and common grades. However, everything was fairly well bought up by the close of the market on Thursday. Should a heavy supply come forward next week, lower prices may be expected. A number of exceptionally good heavy steers were offered for sale during the week, and brought prices apparently out of proportion to those for other grades of cattle. Two hundred and fifty head of this class were bought for export to New York, while a few were bought by the local abattoirs for killing. These cattle ranged in weight from eleven hundred and fifty to fifteen hundred pounds each, and brought \$11.75 to \$12.65 per lundred. Two carloads of fourteen hundred pounds or better, brought the latter price, while three loads sold at \$12.50, two loads at \$12.35 and several other loads at \$11.75 to \$12.25 per hundred. These prices are about level with the highest prices paid during the early spring months and a continuance of them will depend wholly on the export demand. Good loads of butcher steers of one thousand to eleven hundred sold from \$10.25 to \$11.00, while lighter steers and heifers of good quality brought from \$9.75 to \$10.25, with common quality realizing \$8.00 to \$9.00. Butcher bulls were mostly of medium and common quality and sold from \$5.50 to \$7.50, with extra good ones realizing \$8.50 per hundred. The best loads of cows sold from \$7.50 to \$8.35, with common quality at \$6.00 to \$7.00 per Good stockers and feeders were in fair demand at prices ranging from \$7.75 to \$8.75 per hundred. Veal calves were selling at steady prices with the bulk bringing from \$13.50 to \$14.50 per hundred. Heavy calves sold from \$7.00 to \$9.00, with common calves at \$3.00 to \$8.00 per hundred.

Lambs moved a trifle more freely during the week, at prices ranging from \$16.50 to \$17.25, the bulk on Wednesday selling from \$17.00 to \$17.25, while on Thursday prices barely held steady Common lambs brought \$13.00 to \$15.00 per hundred. With heavier receipts these prices are not likely to be main-

Hogs were selling at fairly steady prices all week. One load on Monday brought \$17.25 per hundred, but the bulk of the selects were weighed up at \$17.00. While on Wednesday a number brought \$17.25, the bulk of the offering sold from \$17.00 to \$17.10 per hundred, the market closing on Thursday with a

fairly steady undertone, at this level.
Of the disposition of live stock from the Yards for the week ending August 2, Canadian packing houses purchased 303 calves, 34 bulls, 19 heavy steers 2.818 butcher cattle, 5,389 hogs and 495 sheep. Local butchers bought 135 calves 221 butcher cattle, 174 hogs and 207 sheep. Shipments back to country points totalled 26 calves, 114 canners and

- 1	2,8052,031	11.25 15.65	
	Classification Steers	TORONTO (Union Stock Yards) Avge. Price Range Top No. Price Bulk Sales Price	MONTREAL (Pt. St. Charles) Avge. Price Range Top No. Price Bulk Sales Price
1	heavy finished	268\$11.71\$11.25-\$11.65\$12.65	
6	Steers good 1,000–1,200 common	424 10.52 9.75- 11.00 11.00 55 9.65 8.75- 10.25 10.25	010.00
1	STEERS good 700–1,000 common	1,050 9.88 9.25 10.25 10.50 397 8.68 7.75 9.00 9.00	
1	Heifers fair common	133	43 9.48 9.25- 9.75 9.75
1	Cows good	554 7.67 7.25- 8.25 8.50 1,131 6.25 5.75- 6.75 7.00	
1	Bulls good	26	9 10 9 10
7	Canners & Cutters	150 5.50 5.00- 5.75 5.75	52 5.89 5.25- 6.50 6.50
-	OXEN	14 7.25 7.00- 7.75 7.75	
1	Calves	732 14.00 13.00- 14.50 14.50	445 10.59 8.00- 13.50 13.50
t	STOCKERS good 450–800 fair	154 8.00 7.50- 8.25 8.25 112 7.25 6.75- 7.50 7.75	
1	FEEDERS good solution fair solutions	138 8.50 8.25- 9.00 9.00	
7 f	selects Hogs heavies (fed and lights watered) stags sows	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	19 17 12 17 00 17 25 17 25 162 17 00 16 50 17 25 17 25 5 11 44 11 00 12 00 12 00
	heavy Sheep light common	8 7.59 7.00- 8.50 8.50 138 9.00 8.50- 9.50 9.50 55 6.26 6.00- 7.00 7.00	149.859.859.85
	Lambs good	1,691 16.65 16.00- 17.25 17.25 346 13.98 13.00- 15.00 15.00	229 15.09 14.25 15.50 15.50 1,164 13 91 13.00 14.00 14.00

cutters, 65 butcher cattle, 355 stockers, 41 feeders and 10 sheep. Shipments to United States' points were made up of 111 calves, 54 heavy steers, 22 butcher cattle, 102 stockers and 111 feeders.

The total receipts at the Yards from January 1 to August 2, inclusive, were: 135,768 cattle, 31,704 calves, 22,949 sheep and 272,058 hogs; compared to 143,519 cattle, 29,658 calves, 37,125 sheep, and 251,796 hogs, received during the corresponding period of 1916.

Montreal.

A fairly liberal supply of cattle met an improved demand during the week and prices for the better grades of butcher cattle advanced 25 cents to 40 cents per hundred over the prices ruling a week ago. Although \$10.75 was about the top price realized for a load of butcher cattle, better prices would have been paid for finished stock. Common halffat cattle again constituted the bulk of the offerings, and there were few choice animals on the market, with the exception of a number of cows which sold mostly from \$8.50 to \$8.75 per hundred. The best loads of heavy steers sold mostly from \$10.25 to \$10.50, with the lighter grades selling from \$10.00 to \$10.25. Common, light steers and heifers sold mostly from \$8.25 to \$9.00 and common cows from \$6.75 to \$7.75. Very few good bulls are coming forward,

the bulk of receipts consisting of dairybred stock. These sold generally from \$7.00 to \$8.00, with bolognas from \$6.00

to \$6.75 per hundred. Sheep and lambs are coming forward freely, and the demand continues strong.

Good, weighty lambs sold from \$14.50 and \$15.50 and common eastern lambs from \$13.00 to \$14.00 per hundred, during the week. Sheep sold generally from \$8.75 to \$9.75 per hundred according to quality.

Hogs sold at a wide range on Monday, sales being made all the way from \$17.25 to \$18.00 for selects, off cars, with the bulk of the sales around \$17.50. Only one load brought \$18.00. Towards the close of the week most of the sales of long-run selects were made at \$17.75, with \$17.50 being paid for those from

near-by points. Pt. St. Charles.—Of the disposition of live stock from the Yards for the week ending January August 2, Canadian packing houses and local butchers purchased 509 calves, 15 canners and cutters, 112 bulls, 423 butcher cattle, 645 hogs, 46 sheep and 898 lambs. Shipments to outside points in Canada were made up of 91 calves; United States' shipments totalled 117 calves.

The total receipts from January 1 to August 2, inclusive, were: 21,322 cattle, 42,238 calves, 9,140 sheep and 39,811 hogs; compared to 23,680 cattle, 31,791 calves, 13,680 sheep and 52,424 hogs, received during the corresponding period

EAST END.—Of the disposition of live stock from the Yards for the week ending August 2, Canadian packing houses and local butchers purchased 347 calves, 851 butcher cattle, 444 hogs, and 461 sheep. Canadian shipments totalled 15 butcher No shipments were made to United States' points during the week.

The total receipts from January 1 to August 2, inclusive, were: 21,589 cattle, 32,838 calves, 8,815 sheep, and 25,856 hogs; compared to 19,966 cattle, 31,349 calves, 13,661 sheep and 31,776 hogs, received during the corresponding period

Winnipeg.

Despite receipts totalling six thousand head, an increase of twenty seven hundred head in comparison with the receipts of the previous week, there was an active demand for all grades of butcher cattle. The market was steady all week for good butcher steers, but those of medium quality declined 25 cents per hundred. Trading was brisk on Monday, but was quiet on the following day under the influence of light receipts. On Wednesday and Thursday there was renewed activity in the market by reason of a good demand from Ontario and United States' points for heavy finished steers. This class sold from \$8.00 to \$8.50 per

HE

Sav

anima

steers

mediu furthe sold fi choice sold fi brough calves paid fo cattle.

Wedne weaker from \$ \$15.00; at \$10.0 Of t Canadia calves, and 82 calves, 23 shee points butcher

The

strong

keen de

market

hundre basis, a

points 27 feede The August 3,949 171,008 4,879 ca 216,790 respond

feeders.

Cattle of the v the latt loss of finishing Of late medium cattle h America killers w dictate 1 ping ste choice g a big qu 1866

ets

Week

nding

Aug. 2

13.00 13.00

12.00

11.00

Week

nding

Aug. 2

14.50

12.00

Top

Price

10.80

10.20

10.40

9.75

10.40

9.75

8.90

9.00

8.00

9.50

8.50

6.50

13.50

17.75 17.25 17.25

14.50

9.00

15.50 14.00

hogs, eriod

nding

s and

, 851

heep.

tcher

e to ek.

1 to

attle, 5,856 1,349

hogs,

eriod

isand

ndred

ts of

ctive

attle.

good dium

dred.

was

dnes-

ewed

nited

teers.

) per

THE ROYAL BANK OF CANADA

Capital Authorized - - - \$ 25,000,000 Capital Paid Up - - - -12,900,000 Reserve Funds - - - -14,300,000 Total Assets - - - -270,000,000

HEAD OFFICE: MONTREAL

Branches throughout every. Province of the Dominion of Canada

> **Accounts of Farmers** Invited Sale Notes Collected

Savings Department at all Branches

hundred, although a few extra choice animals realized around \$9.00. Medium steers brought \$7.00 to \$8.00, and steers under one thousand pounds sold from \$6.50 to \$7.50. Handy-weight butcher steers were bought freely by the local abattoirs. Female grades are still declining in price although the demands appear fairly good. Heavy receipts of medium grasse s may be expected to further lower prices. Butcher heifers sold from \$6.50 to \$7.25, although a few choice ones realized as high as \$8.00. The best cows on sale were weighed up at \$7.50 and the bulk sold from \$6.00 to \$6.75 per hundred. Choice milkers and springers held steady but those of medium quality were slower. Good quality bulls sold from \$6.00 to \$6.50, with those of medium quality 25 cents lower, at from \$5.00 to \$5.50. The best oxen offered brought around \$8.00 per hundred, but the bulk sold from \$6.00 to \$7.00. Veal calves found a weaker market, choice selling from \$9.00 to \$10.00 per hundred, and the bulk realizing from \$7.50 to \$9.00. Stockers and feeders were in slow demand with \$6.00 to \$6.50 per hundred, being paid for the bulk of good quality light cattle. A few choice animals sold at 25 cents per hundred higher. Common stock realized around \$5.00

Sheep and lambs were higher under an active demand. Top lambs sold at \$12.50, and good sheep at \$9.25 per

The market for hogs was exceptionally strong all week, under the influence of a keen demand from eastern packers. The market opened on Friday at \$15.75 per hundred for selects on a fed-and-watered basis, and advanced 25 cents on Monday with similar advances on Tuesday and Wednesday, hogs selling on the latter day as high as \$16.60. The market closed on Thursday at \$16.25, a reduction of 25 cents per hundred, with a slightly weaker undertone. Heavy hogs sold from \$12.00 to \$13.00; lights \$14.00 to \$15.00; sows \$11.00 to \$12.00, and stags at \$10.00 per hundred.

Of the disposition of live stock from the Yards for the week ending August 2, Canadian packing houses purchased 77 calves, 2,124 butcher cattle, 5,067 hogs and 82 sheep. Local butchers bought 99 calves, 432 butcher cattle, 204 hogs and 23 sheep. Shipments back to country points were made up of 11 calves, 16 butcher cattle, 505 stockers and 106 feeders. Shipments to United States' points totalling 466 butcher cattle and

The total receipts from January 1 to August 2, inclusive, were: 64,267 cattle, 3,949 calves, 1,512 sheep, and lambs, 171,008 hogs; compared to 37,868 cattle, 4,879 calves, 3,589 sheep and lambs, and 216,790 hogs, received during the corresponding period of 1916.

Buffalo.

Cattle.—Cattle trade for the first part of the week was generally lower, but for the latter part reacted, recovering the loss of the first part of the week and finishing up for the week very strong. Of late weeks entirely too many of the medium and commoner kinds of grass cattle have been moving to all of the American markets, as a result of which killers were placed in a position to almost dictate terms, as a result of which shipping steers, except for a few dry-fed and choice grades, which sold steady, looked a big quarter lower than the week before, a year ago.

with most of the butchering steers and heifers, except for a few prime, which sold steady, a full quarter lower. Long yearlings topped the market the past week, selling at \$13.35, with the best shipping steers running from \$12.70 to \$12.75, the extreme top being for Ohios, while Canada reached the \$12.70 notch. Choice handy steers ranged from \$11 to \$11.75, and a common, feeder order kind ranged down to \$7.50 to \$8 but showed very little kill and very poor quality. Fancy heifers out of Canada sold up to \$10 to \$10.50, but they were in small lots and very good. Heavy fat Canadian cows sold at \$9 to \$9.50, most of the handy weight butchering stuff running from \$8 to \$8.50. Stocker and feeder trade, while a shade lower, showed more life, that is there were more buyers represented the past week and the trading was livelier, but buyers declined to buy except at lower prices. Bull market ruled about steady, some choice fat kinds ranging up to \$9 to 9.25, and the common, runty grades landing down as low as \$6. Shorthorn stocker bulls ranging from \$6.50 to \$7.25. Milk cows and springers sold steady. Real prime, dry-fed steers continued to climb unwards, the west celling tinued to climb upwards, the west selling weighty steers up to \$14.35, and this price would, no doubt, prevail at Buffalo with the right kind. These well-finished teers are very scarce and are wanted. Receipts for the past week reached 4,375 head, as against 5,750 for the previous week, and 4,350 head for the corresponding week last year. Quotations:

Shipping Steers.—Choice to prime natives, \$13.25 to \$13.75; fair to good, \$12.25 to \$13; plain, \$11 to \$11.50; very coarse and common, \$9.25 to \$10; best grass Canadians, \$12.50 to \$12.70; fair to good, \$11 to \$11.50; common and plain, \$9.50 to \$10.25.

Butchering Steers.—Choice heavy, \$11.50 to \$12; fair to good, \$9.50 to \$11; light and common, \$7.25 to \$8; yearlings, hoice to prime, \$12 to \$13; fair to good, **\$9.25** to \$10.

Cows and Heifers.—Best heavy heifers, \$10 to \$11; yearlings, choice to prime, \$12 to \$13.35; best butchering heifers, \$8.75 to \$9.50; fair butchering heifers, \$7.25 to \$8; light and common, \$6.50 to \$7; very fancy fat cows, \$8.50 to \$9.50; best heavy fat cows, \$8 to \$8.50; good butchering cows, \$7 to \$7.50; medium to fair, \$6 to \$6.50; cutters, \$5.50 to \$6; canners, \$5 to \$5.50.

Bulls.—Best heavy, \$9 to \$9.25; good butchering, \$7.50 to \$8.25; sausage, \$6.75 to \$7.50; light bulls, \$6 to \$7; oxen, \$7

Stockers and Feeders.—Best feeders, \$7.50 to \$8; common to fair, \$6.50 to **\$7.25**; best stockers, **\$7** to **\$7.50**; common to good, \$6 to \$6.75.

Milchers and Springers.—Good to best in small lots, \$ 0 to \$115; in carloads, \$75 to \$85; medium to fair, in small lots, \$60 to \$70; in car loads,\$55 to \$60; common, **\$4**0 to **\$5**0.

American records were made at Buffalo last week. Prices were higher from day to day, light receipts being responsible for the sharp advance. Monday the top for heavy hogs was \$16.80, 'though general range was from \$16.50 to \$16.70, bulk going at \$16.60 and \$16.65. Before the week was out or on Friday better weight grades reached up to \$17.50 to \$17.55. Lights and pigs ranged from \$15 to \$15.50, roughs sold up to \$15.25 and \$15.50, and stags \$13.50 down. Last week receipts were 8,500 head, as against 16,670 head for the week before, and 19,400

head for the same week a year ago. Sheep and Lambs.—Receipts continued to run light last week, grand total being only 1,850 head, as against 1,931 head for the week before, and 6,200 head for the same week a year ago. Monday top lambs sold up to \$15, and the next three days choice ones were scarce and nothing sold above \$14.75. Friday the trade was higher, best ones selling up to \$15.50, and culls ranged from \$12 to Wether sheep are quotable up to \$10.50, and ewes from \$9 to \$10.

Calves.—Record breaking prices were paid for veals last week. Monday top veals sold at \$15.25; Tuesday's trade was steady; Wednesday's top was \$15.50; Thursday a few made \$16, and Friday, which was the highest day on record, best lots reached \$16.50 and Desirable cull grades brought **\$**16.75. up to \$15 and \$15.25, and inferior kinds went from \$14 down, as to quality. Receipts for the past week were 2,150 head, being against 2,108 head for the week before and 2,350 head for the same week

Toronto Produce.

Receipts of live stock at the Union Stock Yards, West Toronto, on Monday, August 13, consisted of 231 cars, 4,525 cattle, 277 calves, 1,238 hogs, 1,937 sheep The market was slow. Best butchers and heavy steers steady; common butchers cows, bulls, stockers and feeders, 20 to 35 cents lower. Sheep and calves steady. Hogs, fed and watered, \$17.25 to \$17.35.

Breadstuffs.

Wheat.—Ontario, No. 2, winter, per car lot, \$2.55 to \$2.60; No. 3, winter, per car lot, \$2.53 to \$2.58, (according to freights outside). Manitoba track, bay ports.—No. 1 northern, \$2.40; No. northern, \$2.38; No. 3 northern, \$2.33; No. 4 wheat, \$2.24.

Oats. — Ontario, No. 2 white, not quoted. Manitoba oats, No. 2 C. W., 81c., track, bay ports.
Barley.—Malted barley, nominal.

Peas.—According to freights outside;

No. 2, nominal. Corn.—American (track, Toronto), No. 3, nominal

Rye.—No. 2, nominal. Flour.—Manitoba first patents, in jute pags, \$12.90; second patents in jute bags, \$12.40; strong bakers', in jute bags, \$12. Ontario, winter, according to sample, in bags, \$11.20, track, Toronto, prompt

shipment. Hay and Millfeed.

Hay.—Track, Toronto, extra No. 2, per ton, \$11.50 to \$12; mixed, \$9 to \$11

Straw.—Car lots, per ton, \$9, track, Toronto. Bran.—Per ton, \$36.

Shorts.—Per ton, \$45; middlings, per ton, \$47 to \$48. Good feed flour, per bag, \$3.25.

Hides and Wool.

Prices delivered, Toronto: City hides.—City butcher hides, green flat, 22c.; calf skins, green, flat, 27c.; veal kip, 22c.; horse hides, city take off, \$6 to \$7; city lamb skins, shearlings and pelts, 60c. to 90c.; sheep, \$2.50 to \$3.50.

Country markets. - Beef hides, flat cured, 20c. to 21c.; deacons, or bob calf, \$1.75 to \$2.50 each; horse hides, country take off No. 1, \$6 to \$7; No. 2, \$5 to \$6. No. 1 sheep skins, \$2 to \$2.50; horse hair, farmers' stock, \$35.

Tallow. — City rendered, solids, barrels, 13c. to 14c.; country solid, barrels, No. 1, 12c. to 16c.; cakes, No. 1, 15c. to 17c.

Wool.—Unwashed fleece wool, as to quality, fine, 60c.; coarse, 58c.; washed, wool fine, 70c.; coarse, 65c.

Country Produce.

Butter. — Butter again firmed slightly in price on the wholesales during the past week, selling as follows: Creamery, freshmade pound squares, 39c. to 41c. per lb.; creamery solids, 39c. per lb.; dairy, 34c. to 35c. per lb.; separator dairy, 37c. per lh.

Eggs.—New-laid eggs advanced, and were quite scarce, selling at 44c. to 45c. per dozen wholesale.

Cheese.—The cheese market kept about stationary. Old cheese selling at 30c. per lb.; new at 24c. per lb., and new twins at 24½c. per lb.

Poultry.—Fowl of all classes kept practically unchanged, being quoted as follows: (live weight) spring chickens, 20c. to 22c. per lb.; spring ducks, 15c. per lb.; roosters, 14c. per lb.; fowl under lbs., 16c. per lb.; fowl 5 lbs. and over,

19c. per lb.; turkeys, 18c. per lb. Honey.—The old honey is practically off the market, but the new is expected to come in any time now.

Wholesale Fruits and Vegetables.

There was a general advance on most offerings of fruits and vegetables on the wholesale market during the past week.

Apples.—The imported ones arrived pretty freely, and sold at \$2.50 to \$2.75

per hamper, while California Graven-steins brought from \$3 to \$3.25 per box. Bananas were slightly lower priced, selling at \$2.50 to \$3.50 per bunch.

Blueberries arrived in large quantities and brought from \$1 to \$1.75 per 11-qt, basket, according to quality.
Cantaloupe receipts were slightly heavier

and they sold at \$2 per case for flats, and \$5 to \$5.25 for standards. Cherries were in heavy demand, and as the supply eased off somewhat, they ad-

vanced steadily in price, closing at \$1.25 to \$1.50 per 11-qt. basket, and 60c. to 75c. per 6-qt. basket.

The Molsons Bank

is always glad to assist farmers in any legitimate financial way to make their farms more productive.

State your requirements to our local manager and he will be glad to advise and assist you.

Currants.—The red currant shipments decreased materially, the price advancing; the 11-qt. baskets selling at \$1.15 to \$1.50; the 6-qts. at 65c. to 75c., and boxes at 12½c. to 15c.; the black ones also were firmer, at \$2 to \$2.50 per 11-qt. basket; \$1 to \$1.25 per 6-qt. basket, and 15c. to 17c. per box.

Gooseberries were only shipped in in very small lots, and brought from \$1.25 to \$1.50 per 11-qt. basket; 60c. to 80c. per 6-qt. basket, and 10c. to 13c. per box. Lemons were quite firm at \$6.50 to \$8 per box.

Oranges advanced, selling at \$4 to **\$4.50** per case.

Peaches.—The Canadian peaches have only been of very ordinary quality so far, and sold at 40c. to 75c. per 6-qt. basket, and \$1 to \$1.25 per 11-qt. basket. The southern peaches have been arriving freely and have been of choice quality, selling at \$4.75 to \$5 per bushel hamper; Californias selling at \$1.50 to \$1.75 per case.

Plums.—Canadian plums continued to come in in small quantities, selling at \$1 to \$1.25 per 11-qt. basket, and 40c. to 85c. per 6-qt. basket.

Pears.—Canadian pears have just been merely pears-small and not much good, selling at 40c. to 50c. per 6-qt. basket; he Californias bringing from \$3.25 to **\$3.50** per case.

Raspberries advanced steadily in price, closing at 20c. to 22c. per box.

Thimbleberries were shipped in lightly,

selling at 18c. per box.

Tomatoes.—The Learnington tomatoes have been dried up with the intense heat and were only shipped in lightly, and as the districts nearer Toronto are not ready, they will likely be scarce for a week or two. The price has advanced materially, No. 1 grade selling at \$1.25 to \$1.75 per 11-qt. basket; No. 2's at 75c. to \$1 per 11-qt. basket; 65c. to 75c. per 6-qt. flats, and 85c. to \$1 per 6-qt. lenos. Beets have been a little better sale at

25c. to 30c, per 11-qt. basket. Beans after being almost unsalable became a better sale at 30c. to 50c. per 11-qt. basket.

Cabbage was a drug on the market Celery.—Canadian celery varied greatin quality at 40c. to \$1 per dozen, while Kalamazoo sold at 35c. to 40c. per dozen. Cucumbers brought from 25c. to 40c. per 11-qt. basket.

Gherkin receipts have been very small so far, selling at 75c. to \$1 per 6-qt. basket.

Lettuce.—The leaf variety was a drug on the market; the head selling at 50c. to \$1 per box.

Onions.—The first Canadian dried onions for this season came in during the week, selling at 50c. to 60c. per 11-qt.

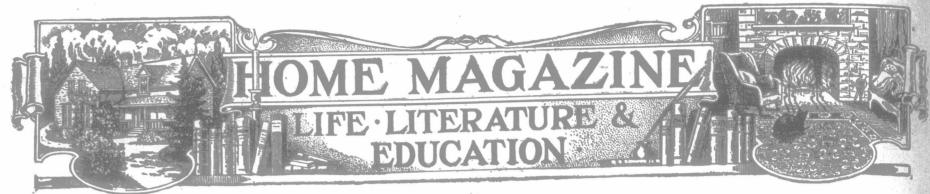
Peas advanced in price, selling at 40c. to 50c. per 11-qt. basket.
Potatoes firmed; the Canadians selling at 50c. to 75c. per 11-qt. basket, \$2.75 per bag; the imported selling at \$5.25 to \$5.50 per bbl.

Chicago.

Cattle.—Beeves, \$7.90 to \$14.35; western steers, \$7 to \$12.25; stockers and feeders, \$5.80 to \$9.25; cows and heifers, \$4.40 to \$12; calves, \$8.75 to \$13.50.

Hogs.—Light, \$15.60 to \$17.10; mixed, \$15.75 to \$17.10; heavy \$15.60 to \$17.15; rough, \$15.60 to \$15.80; pigs, \$11.50 to \$14.60.

Sheep.—Lambs, native, \$9.75 to \$15.20 Continued on page 1294.



A Branch o' Red.

A branch o' red in the green, Around the river bend From where?-and how did it come? And is this summer's end?

Oh, branch o' red in the green, Oh, crimson life aglow, Soul-clear beneath in the stream-Did God's touch make you so?

Above the stream of the years, On youth's dear strength I'd lean, And see my life reflected— A branch o' red in the green! CLARA SEAMAN CHASE,

The Choice.

(By John Masefield, in "Contemporary Verse.")

The Kings go by with jewelled crowns; Their horses gleam, their banners shake, their spears are many.

The sack of many-peopled towns Is all their dream; The way they take Leaves but a ruin in the brake, And, in the furrow that the plowmen

A stampless penny; a tale, a dream.

The Merchants reckon up their gold, Their letters come, their ships arrive, their freights are glories: The profits of their treasures sold, They tell and sum; Their foremen drive Their servants, starved to half-alive, Whose labors do but make the earth a Of stinking stories; a tale, a dream.

The Priests are singing in their stalls, Their singing lifts, their incense burns, their praying clamors; Yet God is as the sparrow falls; The ivy drifts, The votive urns Are all left void when Fortune turns, The god is but a marble for the kerns To break with hammers; a tale, a dream.

O Beauty, let me know again The green earth cold, the April rain, the quiet waters figuring sky, The one star risen. So shall I pass into the feast Not touched by King, Merchant, or Priest;

Know the red spirit of the beast, Be the green grain; Escape from prison.

The Good Angels of St. Dunstan's.

Many readers of this paper will be pleased to see in this issue portraits of the benevolent faces of Sir Arthur Pear-son and Lady Pearson, truly the good angels of St. Dunstan's, the great school for blind soldiers and sailors established by Sir Arthur, at which men without hope are given a new lease of life and taught to be self-reliant and self-supporting. Sir Arthur, who is himself blind, is a frequent visitor at the institution. His wife has been a great aid to him in his great work of mercy.

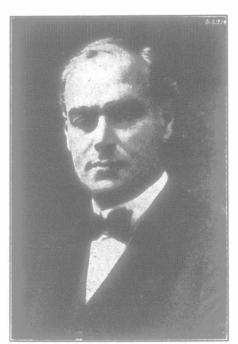
British Columbia's Gentle Sex Don Trousers and Harvest Crop.

(By Suzanne Garnier.)

Mere man has received another product in the Province of British Columbia. His long-held supremacy in wearing trousers has been wrested from him by five thousand sturdy British Columbia women; and to-day a little khaki-clad army of the

feminine sex is hard at work in the berry fields of the province picking the bountiful crop. The army's motto-or, painted on their waving banner, had they one-would probably read "Patriotism Plus"; for, in going into the fields and toiling long hours under the broiling sun, the women are performing a valuable patriotic work, while at the same time putting away for themselves a dollar or more a day. It happened in the following manner:

Early in the season the fruit-growers of the Province, promised with a bountiful crop, were confronted with the possibility that practically two-thirds of this would be a total loss owing to the scarcity of labor. After some deliberation they petitioned the Government for special permission to withdraw the head tax on several thousand Chinese coolies, and have these men imported from China to harvest the berry crops and other fruit. This was some problem for the Government, for, while every possible effort was necessary to produce and harvest crops to aid the Allies and for home consumption, the importing of Chinese labor was not desired. These people send most of their money home and would also make more people in the country to be fed. However, there seemed no way out of the matter, and the Government were about to accede to the request of the fruitgrowers when some of the leading women of the Province-than whom are no more ardent workers for equal rights for women in the Dominion—got busy and settled the matter.



Sir Arthur Pearson.

raise an army of women workers to harvest the berry and small-fruit crops And they were as good as their word. By the tenth of July the first regiments of the feminine army had marched upon the strawberry fields on the mainland and Vancouver Island, and proved highly

Never was stranger army-waitresses, store girls and women from a dozen similar occupations in the big cities of Vancouver and Victoria; high school and collegiate girls and many of their teachers; the daughters of judges, lawyers, bankers, railroad presidents—all these women from varied walks of life are now in the female army of fruit-gatherers. While blue, gray and several other shades of clothing are to be found in the army, the chief style of dress is a khaki two-piece suit, trousers and belted coat. With this is worn calf-leg boots, the trousers being tucked into these. Enormous straw hats complete a neat and efficient costume.

The women have not only gathered strawberries and raspberries, but undertaken the heavier tasks of hoeing the fields, and by the end of July were under-taking the gathering of cherries, requiring ladder-climbing and feats of dexterity not common among feminine workers in the past. A heavy apple crop is promised for the great fruit-growing Okanagan Valley country, but the workers have expressed their willingness to do this work also.

The work of berry-gathering is not difficult once the worker has become accustomed to the peculiar crouching atti-tude required. On most ranches a tenhour day prevails. For the gathering of strawberries 30 cents a crate is paid; 40 cents for raspberries, with an additional bonus of 10 cents a crate to all workers staying the season, and the minimum a good worker can make is a dollar a day.

For the accommodation of the women, bunk-houses have been built. These are equipped with mattresses, and oil stoves

for cooking purposes.

Through the war Canada has learned many valuable lessons in economics, and it is interesting to note how the Canadian women have taken hold and successfully performed tasks that a few years ago were utterly strange. In this donning of trousers and going into the fields to replace undesirable Chinese labor, the women of British Columbia have done a splendid work.

Mrs. Buchanan's Book.

Members of the Women's Institute will They promised the Government to be especially interested to know that



Lady Pearson.

Mrs. Walter Buchanan, of Rayenna, bids fair to take her place as Poet Laureatwof the organization in which she is so well known. She has recently issued a book of poems, "Country Breezes from Breezy Brae." chiefly poems on homely subjects and local occurrences, with several in Scotch dialect. The book is published by the Beaver Valley Pub. Co., Ltd., Thornbury, Ont.

A certain Church of England bishop, desirous of doing his humble part in the war by effecting economy, was travelling in a third-class carriage with a rather rough-looking workman. The latter exhibited surprise at such company and, consumed by curiosity, inquired: "I suppose you are a curate, sir?" "Er—no," weakly replied the bishop, "not exactly—but—but I was once a curate." "I see," commented the other; "that 'orrid drink again." 'orrid drink again."

The Windrow

A Japanese has enlisted with the High-A Japanese mas landers in Toronto.

A territory 800,000 acres in extent has been discovered recently in Colombia S. A., which is so soaked with oil that it The place is lies in pools like water. inhabited only by Indians.

One of the plans by which disabled soldiers may earn their living, devised by Frank Gilbreth, the efficiency engineer is the business of professional dental nursing. Much ill-health is now known to be due to poor teeth, and poor teeth may be greatly prevented by keeping them scientifically clean. The regular dentist's charges for this work are high, and it is thought that the dental nurse, at a lower rate, may still make a fair living wage,

The French have dubbed the American soldier "Teddy." When the first battalion swung upon the boulevard in Paris, glad shouts of "Teddy! Teddy!" rose above the sounds of the band; hence, "Teddy," rather than "Sammy," will be the American war name.

"It is clear that in Kerensky Russia has found a Mirabeau, if not a Danton. The spectacle of this dynamic man, raised from obscurity within six months to a first place in the history of the war, i thrilling. Kerensky, a semi-invalid, suffering from the fatal malady of tuberculosis of the kidneys, has been from the first the leading figure in the Russian revolution. At fearful cost he has instilled into Russia's millions the ideals that will bring them lasting freedom. He has travelled unceasingly, often being carried from platforms in coma, after fainting from sheer physical exhaustion. It was this man who led the Russian soldiers in the attacks that brought Russia back into the war, and he led his men to victory.

'So far as Russia is concerned, the only question is whether or not this newest of democracies is capable of exercising lastupon itself that discipline without which democracy cannot survive. But who can doubt, after what has taken place, that Russia will go through to the end? She must do it in her own way, and that way may not fit in exactly with our notions of how Russia should proceed, but friends of democracy must be patient and have confidence in Kussia."-Brooklyn Eagle.

A Warlord's Chums.

"Tell me whom you go with and I will If there is any tell you what you are. lingering doubt in the mind of any one that a German victory would be a menace to the world, it is sufficient to study the elements in each nation which are consciously or unconsciously working in the German interest. We do not refer to Germany's formal allies, although' the Turkish alliance alone would discredit any cause, but to the Kaiser's partisans in the allied or in the neutral countries.

In Russia, who is for war with Germany? The ablest and most honest moderates, such as Milukoff and the Constitutional Democrats. The ablest and most honest radicals, such as War Minister Kerensky and the rest of the existing Government. Who is for peace with Germany? Germany? The reactionary bureaucrats of the old monarchy who repeatedly endeavored to betray the Russian cause to the enemy until the revolution put a stop to their unpatriotic intrigues. anarchists, who are trying to disrupt the republic and enthrone mob law. who gave Russia the worst government in the world are hand in glove with those who wish Russia to have no government

AUGUS at all,

foreign In Sp King a of being presents movem statesm Allies, a the ex-In Chir Ireland the Na The Si dreamer are for t did Ger

America

In ou apart f congres defend t in the much broad they co pro-Ger or those the war the bes do the For An Edward ling, Ph Ghent, of the Democr Alexand man! (friends

> The depende Some of

Pope Pi

forced t

proud o

Francis Carol I Preside Nichola Constar Empero pos Albert o Peter of Nichola Wilheln

Premier

Chancel

Premier remier Premier Premier Premier Premier Premier Premier Foreign Foreign Foreign ma Foreign Secreta

Bri Marsha General General General General General Grand] THE COL

Ministe

*British Bolivia Brazil China *Cuba *France *Greece Guater Hayti Hondu

*Italy Name actually NDED 1866

row

th the High-

n extent has

The place is

ich disabled ing, devised

ional dental

now, known

d poor teeth

by keeping The regular

ork are high,

dental nurse, ke a fair liv-

he American

he first batoulevard in dy! Teddy!" band; hence, my," will be

cy Russia has Danton. The

man, raised

months to a

-invalid, suf-

y of tubercu-

en from the

the Russian

t he has in-

ns the ideals

reedom. He

often being

coma, after

l exhaustion.

the Russian

hat brought nd he led his

ned, the only

his newest of

ercising last-

oon itself that

mocracy can-

doubt, after

Russia will

e must do it

way may not

s of how Rus-

ds of democ-

ve confidence

ith and I will

there is any

l of any one

l be a menace to study the

nich are con-orking in the

not refer to

although the

uld discredit

er's partisans

most honest and the Con-

ablest and

as War Min-

of the existor peace with

bureaucrats

o repeatedly

Russian cause

olution put a

t government

ve with those

o government

trigues. o disrupt the

law.

l countries. ar with Ger-

ms.

n Colombia th oil that it

at all, when it comes to questions of foreign policy.

In Spain who is pro-Ally? The young King and the Liberals. Who is pro-German? The court circle, which boasts of being more royalist than the King and presents an unyielding front to every movement for reform. In Greece? A statesman like Venizelos favors the Allies, and an incompetent autocrat like the ex-king Constantine the Germans. In China? Germany backs a conspiracy to restore the Manchu dynasty. In Iroland? The constructive extraction of the constructive extractions of Ireland? The constructive statesmen of the Nationalist party support the war. The Sinn Fein, futile and impractical dreamers, allied with dynamite plotters, are for the Germans. What type of man did Germany select as a friend in Latin America? Huerta!

In our own country what is the record, apart from this war, of the majority of congressmen who attack the Allies or defend the Germans? Read their speeches defend the Germans? Read their speeches in the Congressional Record. See how much of sound logic, good feeling or broad sympathy with human progress they contain! Try and verify some of the "facts" they allege. Look over the pro-German newspapers and magazines, or those that were so before we entered the war. How many of them represent the war. How many of them represent the best of American journalism? How do the radicals of the nation line up? For America, such Socialists as Charles Edward Russell, William English Walling, Phelps Stokes, John Spargo, W. J. Ghent, Congressman Lunn; the remnant of the Progressives, and the Wilson Democrats. For disloyalty, the I. W. W., Alexander Berkman and Emma Goldman! One might pity the Kaiser for the friends and allies which he has been forced to cultivate, for even he cannot be proud of them.—The Independent.

The following items are from The Independent:

Some of the Prominent Men Displaced During the War.

MONARCHS.

Pope Pius X (died). Francis Joseph of Austria-Hungary (died). Carol I of Rumania (died). President Yuan Shih-Kai of China (died). Nicholas II. of Russia (deposed). Constantine of Greece (deposed). Emperor Hsuan-Tung of China (de-

Albert of Belgium (in exile).
Peter of Serbia (in exile).
Nicholas of Montenegro (in exile).
Wilhelm of Albania (in exile).

STATESMEN.

Premier Asquith of Great Britain. Chancellor von Bethmann-Hollweg of Germany.

Premier Briand of France. Premier Stürgkh of Austria (assassinated).

Premier Tisza of Hungary. Premier Goremykin of Russia. Premier Stürmer of Russia.

Premier Trepoff of Russia. Premier Lvoff of Russia.

Foreign Minister Grey of Great Britain. Foreign Minister von Jagow of Germany. Foreign Minister Zimmermann of Germany

Foreign Minister Sazonoff of Russia. Secretary of State Bryan of the United States.

Minister of War Kitchener of Great Britain (died).

GENERALS. Marshal Joffre of France. General Nivelle of France. General French of Great Britain. General von Moltke of Germany. General von Kluck of Germany. General Rennenkampf of Russia. Grand Duke Nicholas of Russia.

THE COUNTRIES THAT HAVE BROKEN WITH

GERMANY. *Belgium *Japan *British Empire Liberia Bolivia *Montenegro Brazil Nicaragua

China Panama *Cuba *Portugal *France *Rumania *Greece *Russia Guatemala San Domingo Hayti *Serbia Honduras *Siam

*Italy *U. S. of America Names with asterisk are of countries actually at war.

Hope's Quiet Hour

The Transforming Vision.

Beloved, now are we the sons of God, and it doth not yet appear what we shall be: but we know that, when He shall appear, we shall be like Him; for we shall see Him as He is.—I. John, 3:2.

St. John had already seen the Incarnate Son of God. That wonderful friendship between the Master and the disciple whom He especially loved had changed his whole life. The fisherman had become the great Seer, the apostle whose eagle vision was turned always towards the sun.

did to Solomon, "Ask what I shall give

Now I know that even goodness would fail to satisfy if it came as a fairy gift. I don't want to be lifted over all the temptations of life, any more than a child at school wants the teacher to solve all his problems for him. I still feel that the wish to be good is dominant in my soul, but I prefer God's way of helping us to climb from strength to strengthfirst the blade, then the ear, then the full corn in the ear-rather than any magical and effortless transportation.

When we "see Him as He is" we shall be transformed into His image; but let us remember that the rule works both ways. "Blessed are the pure in heart: for they shall see God," said our Lord,

Is this christianity of ours real? That is a searching question for each of us. If we need God in the hour of death, we need Him quite as much when we are battling with the temptations of everyday life. A wise man once said that he was not so much surprised at what men suffer as at what they lose. In these days, when everyone is preaching economy as a patriotic duty, let us be careful lest we allow the "pearl of great price" to slip carelessly out of our grasp. We know that it would be disastrous failure to gain the whole world and yet lose ourselves-lose the eternal life which is the priceless gift offered by the Father to each of His children. If this "eternal life" only meant living on endlessly we might not think it a priceless gift; but our Lord's definition of eternal life is the knowledge of God: "This is life eternal, that they might leave The these life." that they might know Thee the only true God, and Jesus Christ whom Thou hast sent.

To "know" God—to know His infinite love which "passeth knowledge"—how can that fellowship of man with his Maker be within our reach?

It is not the King of Kings who stands aloof; it is His subjects who are too busy or too indifferent to talk to Him or listen to His confidences.

Some men and women at a summer resort had attended an informal service in a The preacher was a stranger; and after the service they began to talk, in critical fashion, about his appearance and style of preaching. But one of that crowd of listeners went quietly away. He was hushed into silence for he thought: "That Other One, Who preached re-pentance and faith long ago in Galilee, was in the midst of us to-night as we gathered together in His Name."

If a man wants to know another man he seeks his company. Do we seek the company of the Divine Companion? Do our hearts turn to Him when we are alone, or in the intervals of work? Or is prayer only an irksome duty?

A woman once told me that she had gone to church regularly for many years, and did not feel that she was any better for it. So the multitude thronged close to Christ, but only the woman who reached out in her great need to touch the hem of His garment gained anything from the contact. If you go to church, remembering that Jesus is still "in the midst," you can also touch Him and gain strength and inspiration as you kneel at His feet. To go to the place of meeting, where He is waiting to speak to you, and come away with no thought in your mind but the tediousness of the sermon or the prayers, is indeed to lose a wonder-

ful opportunity.

One mother, whose son was killed at the front, said she loved to go to a little church where they had together knelt at the Lord's Table before he went away. The place was a real Holy of Holies in her eyes; for there she found her Lord, and her son was-she knew-only on the other side of Christ." The veil between them was almost forgotten as her spiritual vision pierced the darkness and she saw



Some of the Workers and Bunkhouses on Fruit Ranches, B.C. Note how they are dressed for their work.

And yet his hunger after righteousness It was not was far from satisfied. enough for him to be sure that he was a son of God. It was not enough to look back to those years of sacred fellowship, when he walked humbly with Jesus of Nazareth. Still he looked forward to the time when he should see the Vision of God and be satisfied. Moses desired earnestly to see the glory of God. St. Philip pleaded that if his Master would only show him the Father he would be perfectly satisfied.

As long as I can remember my dominant desire has been to be good. In the days when I devoured fairy tales, it never to think what I trouble any would choose if "three wishes"-or even one-were offered me. I used to wish that God would say to me, as He them clasped in stronger hands.

and the writer of the Epistle to the Hebrews warns us that without holiness no man shall see the Lord (Heb. XII:14).

If we want to see the Blessed Vision which has power to make us like the All-Holy God, we must "follow peace and holiness" with earnestness of purpose. We hear that men who have looked

death in the face, for weeks and months at a time, come back from the front with a strange new light in their eyes. They went from home recklessly, as if war were only a great adventure, and there they found a mysterious Presence—an invisible Friend of whom they had heard before but Who had only been a Name, until in their hour of agony danger they gropingly reached up both hands in helpless pleading and found



Part of the 5,000 Women Who This Year Gathered Strawberries in British Columbia.

9405 Slip-On Blouse, 34 to 42 bust. Price 15 cts.

9402 Straight Skirt to be Plaited or Gathered, as to 50

Price 15 ots.

AUGUST

I made you to stop him

as well giv

I've never

you and I

ways, Joh as you sai

we'd bette and go ba

air and wo John, le

chop up a

to hide his "Well, S

rent this h

this morni down town

'It was

"The—d"Yes, th

I just thou

strawy sme

mornings, a

and the lo

hat and he

back there,

a fool. I'c

was the dea

idea to a fi "The—d

nonplussed. be told. And that Sarah gave back to E

wasn't exact

Bill Perkin' plenty of r

ing about,

fluffy ducks

real pond a

came.

the King in His beauty and the land of far distances.

We are so apt to live as if our chief business in this life were to win earthly But money or fame can do very little to cheer an aching heart. A grand house, a motor-car, fine clothes and luxurious meals seem very paltry things to a mother whose son is suffering or dying. We must have a higher ambition

than worldly success if life is to be worth Where can we find it except in humbly trying to follow in the steps of Christ? His soul was spotless. We can see His beauty of holiness in the Gospel record. Read and see! Can you imagine higher ideals than He sets before The Friend of sinners still tells His followers that they must be "perfect" as their Father in heaven is perfect. If we "see Him as He is" we inevitably fall in love with His perfect beauty, and our great ambition is to become like Him. But our only hope of learning to love Him lies in the fact that He first loved— and always loves—us. A little child soon responds to his father's love-and we are all God's little ignorant children. He wins our hearts by His infinite love. He remembers us when we allow the thought of Him to slip out of our consciousness.

"Our vision of God, clouded and incomplete, is made possible by God's vision of us, which is perfect and uninterrupted. Not so much knowing Him as known of Him, not so much seeing as seer, we have the assurance that our loftiest thoughts answer to His inspira-tion, and our larges; hopes to His counsel."

The Rev. Charles Simeon, who did a wonderful work among the students of Cambridge, gained his spiritual power for good from constant communion with his Master. In his rooms there was a passage from the attic to the roof; and that solitary oratory on the roof-where he loved to walk alone with God-was like a power-house for his soul.

We haven't time for everything we want to do, perhaps, but let us put first things first. What shall it profit us if we gain riches and worldly honor, if we have allowed the Vision of God to fade out of our hearts?

The matter lies in our own hands. As St. Bernard used to say: "There is Someone waiting for me in my cell." He waits for us-does he wait in vain? Whittier says:

"And so I find it well to come For deeper rest to this still room; For here the habit of the soul Feels less the outer world's control. And from the silence multiplied By these still forms on every side, The world, that time and sense has known, Falls off, and leaves us God alone. DORA FARNCOMB.

From "Somewhere in Quebec."

A dollar, from "Mary-somewhere in Quebec," dropped into the Quiet Hour few days ago. I have just re turned from a visit in the country, and must get to work, for the gifts entrusted to me "for the needy" have accumulated until the Q. H. P. is overflowing with

How kind our readers are! Please remember that I am not spending your money on any "great work," only try-ing to help a little here and there.

The Fashions.

How to Order Patterns.

Order by number, giving age or measurement as required, and allowing at least ten days to receive pattern. Also state in which issue pattern appeared.

Fashian Department, "The Address Fashion Department, "The Farmer's Advocate and Home Magazine," London, Ont. Be sure to sign your name when ordering patterns. Many forget to do this. See under illustrations for price of pat-

terns shown in this week's issue. When ordering, please use this form:—

Send the following pattern to: Name.. Post Office.... County..... Province..... Number of Pattern Age (if child or misses' pattern)...

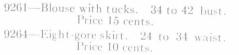
Date of issue in which pattern ap-



9303—Long coat. 36 to 44 inches bust. Price 15 cents.



9340 Girl's Dress, 8 to 14 years. Price 15 Cents.







9197 — Child's Kimono, 2 to 6 yrs. Price 10 cents.



9142 — Boy's suit, 4 to 8 yrs. Price 10 cents.



9346 Boy's Norfolk Suit 8 to 14 years. Price 15 cents.

9290 Utility Dress. Apron or Regligee, 54 or 56, 58 or 40, 42 or

Price 15 ets.

Price 15 cents.





Price 15 cts.

The Ingle Nook.

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

It was a florist's window, and the "arrangement" in it had been made purely for notoriety, since it answered no purpose whatever of real advertisement, Real advertisement would have called for flowers, flowers arranged to suggest, alluringly and subtly, some idea of the greater treasures within. This design greater treasures within. This design had nothing whatever to do with flowers. It consisted chiefly of a small pool with a barren rock creation about it, a miniature windmill, and a half dozen of the softest, weentiest ducklings. Sometimes the little ducklings slept in a confused little jumble of yellow and brown on the uppermost of the "rocks;" sometimes they swam about in the clear, cool water into which, now and again, they submerged their little heads deliciously; and sometimes they waddled aimlessly about the pool. Always, however, with the greatest nonchalance, precisely as though they had been used to cities all their lives, quite indifferent, indeed, in regard to the gazing faces at the window, "What perfectly cuddly little things!"

"Oh, aren't they too sweet for anything!" "And they can swim!"

"What are they, ducks or geese?" Such expressions as these were bandied about on the other side of the glass, and the crowds passed on to make room for fresh ones.

An oldish little woman in a brown dress, wearing a hat with cherries on it, paused among the rest, but she said not a word. Anyhow she was alone, so there was no one to whom she could speak, but, to the observant, her face spoke volumes. A sort of light came into her black eyes, and a look of tenderness upon her countenance, spreading slowly and expansively until it expressed a variety of emotions. There was memory there, surprise and wistfulness and loneliness. Lower and lower drooped her shoulders, and more and more tender grew her eyes, keeping company with a pathetic little smile at the corners of her lips. One knew she

was seeing pictures. Then, suddenly, she straightened up, looking right past the ducklings into a country far away. Revelation came into the eyes, then a great relief and then a real determination. Without one further glance at the ducklings she started back along the way whence she had come, stepping briskly, almost feverishly, and quite oblivious of passers-by.

On and on she went, straight to a comfortable little house on a "respectable street, where a man, coat off, was hoeing at a handkerchief plot of ground walled about by a high board fence that shut

Directly to him she went. "I say, John, I've come to the conclusion that we might about as well go

John looked up in surprise, pushing back his hat from his perspiring forehead.
"Why, Sarah, how's that?"

But Sarah was on business bent. "I've had just about enough of this life, and I daresay you have too. - I know Use

It seems yet, a comp s served or cities, where another is year, the persorts of it, l is still large and raspbers table which fruit, rhubai Variety in the appetite in general, d medicinal co time can at have in the

tion to the

black and

strawberries

These will gr southern pa southern por plied, while tribution of The market grape-fruit, lemons, with currants, rais so useful at while in the see species as northern clim other fruits w couraged in True, a fru but the res

Rich garden bushes should together, in o for cultivatio gether" fruit culty and disc well looked a than many al and grow into set out either the spring. Fresh fruit

canned and di seasons, will should there Dried fruits, 1 tious All fruits Co hydrates, with matters of me

also contain ac that makes underripe fruit for this reaso fruit should a

Upon the w after careful so beneficial, and Bread and jar

NDED 1866

ook.

v, and the been made

nswered no

e called for

o suggest, idea of the This design

ith flowers.

l pool with

it, a minia zen of the

Sometimes

a confused

own on the

sometimes

cool water

they sub-

iously; and essly about

with the

as though

s all their

things!"

anything!"

re bandied

glass, and

e room for

rries on it,

said not a

e, so there

speak, but,

e volumes.

olack eyes,

er counten

xpansively

emotions. rprise and

ower and

and more s, keeping e smile at

knew she

tened up,

into a

came into
nd then a
ne further
rted back
lad come,
ishly, and

to a com-

pectable" as hoeing

nd walled

that shut

the con-

s well go

pushing

forehead.

h of this

_I know

in regard

I made you come here"-raising her hand to stop him from speaking—"but I may as well give in now as well as later, that I've never really liked it, never since I came. Folks that have lived as long as you and I on a farm can't fit in to city ways, John. I see that now. It's just as you said it would be, John. I guess we'd better buy that lot of Bill Perkin's and go back where we can breathe real air and work real land."

John, leaning on his hoe, began to chop up a bit of perfectly clean ground to hide his satisfaction.

"Well, Sarah, just as you say. We can rent this house any day.—But look here, what brought you to this all of a sudden this morning? I thought you headed down town to get raspberries to do up."
"It was the—ducks," confessed Sarah.
"The—ducks?"

Yes, the ducks. When I saw them I just thought o' the barn and the clean strawy smell about it, and the sunrises of mornings, and the sunsets of evenings,— and the long fields, and the trees, and Mrs. Perkins coming over with a straw hat and her apron flying. It was *living* back there, John, and I've been a bit of a fool. I'd long suspected that, but it was the dear little ducks that brought the

idea to a finish."
"The—ducks?" John still was much nonplussed. So the whole story had to

And that was how John Barber and Sarah gave up being "retired" and went back to Bonneyville (you know that wasn't exactly its name) to settle down on Bill Perkin's 10-acre lot, where John had plenty of real land to keep him potter ing about, and Sarah could raise little fluffy ducks and see them swim out on a real pond at the foot of the garden.

Use Plenty of Fruit.

It seems almost surprising that, even yet, a comparatively small range of fruit is served on many farm tables. In the cities, where fresh fruit of one kind or another is available every week in the year, the people have learned to use all sorts of it, but on some farms the choice is still largely confined to apples, plums and raspberries, with, probably, the vegetable which best serves the purposes of fruit, rhubarb.

Variety in any kind of food stimulates the appetite; moreover fruits-which are in general, dilute foods-vary in food and medicinal content; hence wherever the time can at all be afforded it is well to have in the garden and orchard, in addition to the varieties above mentioned, black and red currants, gooseberries, strawberries, cherries, pears and grapes. These will grow in most of the central and southern parts of Canada. By the southern portions peaches may be supplied, while the far north adds its contribution of blueberries and saskatoons. The markets, too, contribute oranges grape-fruit, pineapples, bananas and lemons, with olives, and the dried prunes, currants, raisins and apricots that prove so useful at certain seasons of the year; while in the not-far-off future we may see species as yet practically unknown in northern climes—the avocado, loquat, and other fruits whose cultivation is being encouraged in the Southern United States.

True, a fruit garden requires some time, but the results are very satisfactory. Rich garden soil is a necessity, and the bushes should not be planted too close together, in order to leave plenty of room for cultivation. It is the "jammed-together" fruit garden that presents difficulty and discouragement. A few bushes well looked after will give better results than many allowed to get out of bounds and grow into a tangle. They may be set out either late in the fall or early in the spring.

Fresh fruits for the summer, jellies, canned and dried fruit and jam for other seasons, will be reward enough, even should there be none left over to sell. Dried fruits, by the way, are very nutri-

All fruits contain more or less carbohydrates, with certain sugars and mineral matters of medicinal value; most of them also contain acid. Pectin, the substance that makes jelly possible, is richer in underripe fruit than in the ripe, and it is for this distribution underripe for this reason that slightly underripe fruit should always be chosen for jelly. Upon the whole, as has been concluded after careful scientific experiment, fruit is beneficial, and even necessary to health. Bread and jam is a splendid combina-

tion, while fresh fruit is found helpful to the digestion and general health of all save a very unfortunate few who find it advisable to take all of their fruit-food cooked. Whether cooked or raw, it may be served very acceptably with rice or tapioca, cornstarch, blanc-mange or icecream, as dessert for dinner, or even with plain bread and butter or biscuits. Indeed, as the years go on, there is much less baking of pies and cakes, and much more serving of fruits and green vegetables, than formerly, and people are healthier and happier for it, to say nothing of the saving of time spent over a hot stove in the preparation of more elaborate

To quote from an expert on the sub-ct: "From the data (of experiment) as a whole it is apparent that fruits are reasonably cheap sources of energy in the diet, and are well suited on grounds of economy for combination in reasonable quantity with cheap proteid foods to furnish a well-balanced ration."

Overripe fruit is often injurious, probably because it has begun to ferment, a fact which should be noted by people with whom raw fruit seems to disagree. Also it should be noted, when trying to keep fruit fresh for any length of time, that bruises or broken skins hurry decay. For this reason fruit should always be picked over as soon as possible, bruises, etc., cut out, and the whole parts stewed immediately. Sometimes, too, microorganisms adhere to the skin, hence the advisability of washing fruit before serving. If washed, and let dry thoroughly at once, it seems to keep better at times, because of the removal of these organisms, but it must be spread out to dry, as dampness hastens decay. when the organisms are removed by washing, raw fruit is much less likely to disagree with sensitive stomachs. The great Paris scientist, Metchnikoff, insisted that there is "always danger of acquiring harmful intestinal parasites or their eggs from raw fruits and vegetables, and insisted that in all doubtful cases these foods should be either cooked or scalded (blanched) before eaten. On farms, however, this condition is less likely to exist in fruits brought straight from the garden, than in similar foods bought in cities, often exposed to careless handling, to endless dust, and to

Storing Fruit.

Fruits are stored most safely in jam, jelly, dried, or in cans. Many fruits may be stored raw, for a considerable length of time, in cold storage if possible. but even in an ordinary cellar if it is cool enough and dry enough. A temperature of 31 to 32 degrees F. is said to be best for storing apples, pears, peaches and oranges; 32 degrees F. for musk and watermelons; 33 to 34 degrees F. for cranberries, and 35 to 40 degrees F. for dried fruits. The air should be dry enough to be unfavorable to mould growth (if cool enough mould is not so likely to make its appearance) and just moist enough to prevent shriveling; and the store-room should always be kept sweet and clean. Choice apples and pears can be kept an unusually long time if each is wrapped in clean, unprinted paper which is not too thick, a process which greatly hampers the growth of moulds and development of bacteria. As time goes on all fruits kept in barrels or boxes, or even on shelves, should be picked over. Decay spreads, hence all fruit that shows the slightest trace of decay should be removed.

Some Fruit Recipes.

Tapioca and Apples.—Three-quarters cup tapioca, 7 tart apples, 1/2 teaspoon salt, 1/2 cup sugar, a little cold water, 21/2 cups boiling water. Soak the tapioca an hour in cold water to cover; add the boiling water and salt, and cook in double boiler until transparent. Place the boiler until transparent. Place the sliced apples in a buttered baking-dish, sprinkle well with sugar, pour the tapioca over and bake.

Apple Crumb Pudding.—Put sliced apples in a deep baking dish, with sugar enough to sweeten mixed with them. Cover with a "crumb" made of flour butter and sugar mixed together, and

bake. Serve with cream or boiled sauce, Apple Batter Pudding.—Put sliced apples in a deep baking-dish, with sugar to sweeten and a very little water. Over the top put a batter made by any good recipe for layer cake, and bake at once. Serve with cream or boiled sauce. A

"The Sweetheart of the Corn"



This picture and slogan has been familiar to Canadians for over eleven years. It tells the story of the corn used in

Kellogg's TOASTED **CORN FLAKES**

Only the finest corn is used and our secret process converts it into a light, appetizing and sustaining food.

MADE IN CANADA.



The Battle Creek Toasted Corn Flake Co., Limited. Head Office and Factory: London, Ont.

ZLMA LADIES' COLLEGE OPENS ITS THIRTY-7TH YEAR ON SEPTEMBER SEVENTEEN: NINETEEN HUNDRED & SEVENTEEN

Thorough courses in Music, Art, Oratory, High School, Business College, Domestic Science and Superior Physical Training.

FOR TERMS, ADDRESS : R, I, WARNER, M.A., D.D., President, St. Thomas, Ontario

OTTAWA LADIES COLLEGE PERFECTLY SANITARY FITTED WITH EVERY

New Fireproof Building **MODERN CONVENIENCE** Academic work up to the first year University. Music, Art

and Handicraft, Household Arts, Physical Culture, etc.

For Calendar apply to The Capital offers exceptional advantages.

J. W. H. MILNE, B.A., D.D., President. JAS. W. ROBERTSON, LL.D., C.M.G., Chairman of Board.

ONTARIO LADIES' COLLEGE

Healthful, picturesque location 30 miles from Toronto. Academic Courses from Preparatory Work to Junior Matriculation, Teachers' Certificates and First Year University; Music, Art, Oratory, Domestic Science; Social Economics and Cloics; Commercial Work; Physical Training—gymnasium, swimming pool, etc. Calendar from Rev. F. L. Farewell, B.A., Principal, Whitby, Ontarto.



Its tone pipes absorb the harshness found in other machines. It reproduces perfectly any style or make of disc record. Priced from \$15 to \$250. Write to-day for illustrated catalogue and name of local dealer. Agents wanted. The Pollock Mfg.Co., Ltd., Kitchener,Ont.

Send to-day for a free copy of our handsome cata-logue, which illustrates and describes the celebrated

Sherlock-Manning

20TH CENTURY PIANO-known as "Canada's Biggest Piano Value" Write Dept. 18 and ask for catalogue "T." THE SHERLOCK - MANNING PIANO CO. London, Canada, (No street address necessary.

The ` Penalty Corns

> No need now to waste time soaking your feet so often. Nor run the risk of paring.

LUE-JAY plasters have ended millions of corns. This very night thousands of people will say good-bye to painful corns forever. Touchy corns are needless, even foolish.

Blue-jay brings instant relief. And in 48 hours the average corn is gone. Only

BAUER & BLACK

Limited Toronto, Canada

Makers of Surgical Dressings, etc.

a second or third treatment.

A Blue-jay plaster, with its healing wax, is applied in a jiffy. No soreness, no inconvenience. The pain is not temporarily eased, as with paring. There is no danger, as with harsh liquids, Decide to join the happy crowd tonight which has won a few stubborn ones require freedom the Blue-jay way.

> Blue=jay Stops Pain-Ends Corns

For Sale by all Druggists

Also Blue-jay Bunion Plaster

Lights the Farm and Lightens Farm Work



Delco-Light will give you all the light you need for your home and outbuildings. It is cool, clear, safe. No smelly, dirty lamps or lanterns. Less housework. No fire danger. Better light for chores—no lantern to hold.

Delco-Light provides power for all your smaller machines. Gives you running water. Does the washing

and ironing. Saves time and money indoors and out. Delco-Light is a simple, economical, easily operated plant.

Comes complete, ready to use. A child can operate it Full information and free literature by writing your nearest distributor. Price, No. 208—\$485 and No. 216—\$585.

The Domestic Engineering Company -- Dayton, Ohio

CANADIAN DISTRIBUTORS

C. H. Rooke Ltd.. Toronto Breen Motor Co, Winnipeg B. L. Robinsen, Calgary Langley & Hazlett, Vancouver Provincial Electric Light and Power Equipment Co., Kentville, N.S.



Record Breeding and Great Individuality are combined in the now offering from daughters of Lewis Prilly Rouble Hartog, and sired by Baron Colantha Fayne. Several are of serviceable age. See these.

T. W. McQUEEN, Oxford County, TILLSONBURG, ONT.

little salt and nutmeg or cinnamon may be added to the apples if liked.

Fruit Roly-Poly.—Make a good dough, as for pie paste, but with baking-powder and not too much shortening. Roll out. Spread with jam or with any kind of raw fruit and swarr chapped apples are good. fruit and sugar; chopped apples are good. Roll up, pinch together, brush with milk and bake. Serve with cream and sugar.

Apple Foam.—Make apple sauce, using

as little water as possible, sweeten and flavor to taste. Beat fine with an eggbeater, then add the beaten whites of 2 or 3 eggs. Serve with a custard made with the yolks of the eggs, some milk, and a little cornstarch.

Apple Custard Pie.—Two well-beaten eggs, 1 cup grated apple, 1 pint sweet milk, 2 large spoons sugar, a pinch of salt and a little flavoring. Put in lined pie tins and bake. Banana may be used instead of the apple

Apple or Berry Dumpling.—Two cups sour cream, a level teaspoon soda to each cup, pinch salt, flour to roll. with fruit, roll up and put in floured pudding-bag. Boil 2 or more hours. Serve with sauce made of butter and sugar

beaten together.
"Cold Water" Plums.—Wash plums and pack in sterilized jars. Fill with cold water, screw tops on loosely, put in boiler with cold water to an inch of tops of jars. Heat to boiling point and boil till tender Fill up jars with boiling water and seal tight. When required for use sweeten to taste several hours before serving.

This method retains the natural flavor. Canned Grapes.—Pulp the grapes and boil pulp 5 minutes, then put through colander or ricer to take out seeds. Add skins and sugar to taste, boil and seal in sterilized jars, boiling hot. For jam add more sugar, and for spiced grapes add spices and vinegar to taste. If liked apples may be combined with grapes that are done up in any way.

Spiced Tomatoes.—Peel and slice and

put in kettle with half as much sugar by weight. Add 1 quart vinegar, and 1 oz. each of ground mace, cloves and cinnamon. You may tie these in a cheesecloth bag if you like. Cook slowly for 3 hours.

Tomato Preserves.—Tomatoes may be "preserved" either ripe or green, with sugar. With ripe tomatoes add oranges or lemons put through a chopper, rind and all, and enough sugar to taste. Boil and seal. The green tomatoes should have enough sugar to make a rich syrup, and should be flavored with ginger root. In either case the tomatoes should be sliced or quartered before boil-

Crab Apple Preserve.—Six quarts crab apples, 1½ quarts sugar, 2 quarts water. Cook water and sugar to a syrup, then add the crabapples, from which the blossom end has been well rubbed off. Cook gently until tender

What To Do In A Storm.

The following very been taken from the Globe:

If you are out of doors in a very severe electrical storm, the Electrical Experi-menter offers the following rules for your protection:

1. Keep away from wire fences. They may carry a dangerous electrical charge long distances. Cattle in pastures are frequently killed from the neglect of farmers to ground the wire of the fence.

2. Keep away from hedges, ponds

3. Keep away from isolated trees. Oak trees are frequently struck; beech are seldom struck. It is safe in a dense 4. Keep away from herds of cattle and

crowds of people.

5. Do not hold an umbrella over you.

It is safer to sit or lie down in an open field than to stand.

7. Drivers should dismount and not stay close to their horses 8. Do not work with any large metal tool or implement.

If you keep indoors:

1. Keep away from the stove and chimney. The hot gases from the chimney may conduct the lightning to and down the chimney.

2. Do not take a position between two bodies of metal, as the stove and water pipe, for example. An exception to being near metals is the case of an iron bed. One of the safest places is on a mattress in an iron bed, provided you do not touch the metal. The metal surrounding you makes a safe cage which

will prevent the lightning from reaching

a person inside.
3. Do not stand on a wet floor nor draw water from the well or faucet. 4. Do not stand directly under a chandelier, near a radiator, nor on a

5. Do not use the telephone.

The Scrap Bag. Stocking Run.

If you notice a run starting in your stocking and have not time to sew it immediately, moisten the place where the run ends and it will go no further.

Use for Old Spools.

Do not throw away old spools. Keep them to slip over nails or cheap hooks where anything is to be hung that will tear. This will save much patching.

Hot Weather Clothes Hint.

In warm weather, when clothes are not to be washed immediately but have to wait some time in a basket or hamper, drop some pieces of charcoal into the folds of the clothes and the strong, objectionable odor will be removed.

Make Your Own Vinegar.

Save all your apple, peach and pear parings, and put in an earthen jar covered with water. Add any rinsings from vessels containing sugar or molasses, also a little "mother of vinegar." Keep in a warm place until it ferments and becomes acid, then strain through several thicknesses of boiled cheesecloth.

To Clean White Enamel.

White enamel may be cleaned easily as follows: Rub with common baking soda, then wash off with hot soapsuds.

A Dinner Wagon.

A dinner wagon is a great convenience to a busy woman, and any handy man can make one by following the illustration. Planed packing-box material will do for the top of the shelf, if there is no better on hand. The table should be fitted



A Dinner Wagon

with a strong handle at one end as shown also with good rubber castors which will not injure the floor as the wagon is rolled over it. The things for the dining-table can all be piled on this wagon, and two trips instead of a dozen will be necessary "set" it, one for the dishes, another for the eatables.

To Separate Beeswax from Comb. Have sufficient water boiling in a large vessel. Put the comb in a strong loosely-wooven bag and tie tight. Submerge in the water and work the contents in the sack with a wooden paddle until the wax all comes to the top of the water. This can be skimmed off easily as it cools if the sack is weighted to the bottom of the vessel.

Putting Up Tomatoes.

Can plenty of tomatoes this year in pint jars. They are very easily cannel and are splendid in winter for stewing or making into soup. Also at any time, done without salt, they may have sugar and orange or lemon added to them and so be transformed into tomato preserve.

Donald and four grown-up relatives attended divine service one Sunday morning. Donald selected the aisle seat, and when the contribution plate was passed deposited in it the combined offerings of his family. The vestryman, not realizing this, moved as though to pass the plate to the color of to the others in the pew, when he was arrested by a highly-pitched, distinctly audible stage whisper, announcing, paid for five.

AUGUST 16, 19

Peter Carrie

and F If you have a fill your own si We have a mad run in an efficie answer all your PETER HA tremendous str They will cut us in a day, and method of cutt power is requir



A Sample Pair sent to Your Dealer

Known fr R.G.LO

in all the half or DEACO feel good Every your monin mater At good Deacon

Good

Belle

Cotton See Gluten Mea Bran, Short Corn, Cracl Feed Whea Chick Feed

Mash, etc. CRAMI Dovercour 1866

eaching

or nor

nder a

n your

ere the

hooks

at will ing.

are not

ave to

amper, to the

, objec-

d pear

s from es, also ep in a

thick-

asily as ng soda,

dy man

illustral will do

no bet-e fitted

ich will

is rolled ng-table and two ecessary

another

Comb.

a large

strong,

contents

lle until

ly as it

the bot-

year in canned

ewing or time, if

ve sugar hem and

preserve.

atives at-

y morn

seat, and s passed. serings of realizing the plate

he was

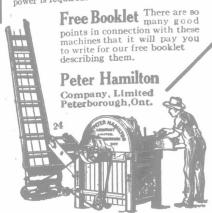
distinctly

cing,

Peter Hamilton Carrier Silo Filler and Feed Cutter

If you have a gasoline engine, why not fill your own silo and cut your own feed? We have a machine which your engine will run in an efficient manner, and which will answer all your feed; cutting requirements.

PETER HAMILTON machines have tremendous strength and great capacity. They will cut up an enormous pile of feed in a day, and because of their shearing method of cutting only a small amount of course is required.





BOB LONG UNION MADE GLOVES DVERALLS

Known from Coast to Coast R.G.LONG & CO. LIMITED



Cut roomy, yet trim—of flan-nels, drills, tweeds and serges that are soft, yet substantial —made with turned, felled and double-stitched seams, collars double-stitched seams, collars in all the popular styles, and half or full-length sleeves, DEACON Shirts look well, feel good, and wear better.

Every shirt guaranteed — your money back for any defect in material or workmanship. At good stores.

Deacon Shirt Company Belleville - Canada 9

Good Luck Feeds

Cotton Seed Meal, Oil Cake Meal, Gluten Meal, Digestive Tankage, Bran, Shorts, Oats, Crushed Oats, Corn, Cracked Corn, Corn Meal, Feed Wheat, Good Luck Baby Chick Feed, Scratch Feed, Poultry Mash, etc. Write for prices.

CRAMPSEY & KELLY Dovercourt Road Toronto

TheBeaverCircle

Our Junior Beavers.

So many letters from our junior Beavers are on hand that this week's space is all for them. First we shall have a story and then some of the letters, although many still must be

The Grocer Rat.

BY JO L. G. MCMAHON

A rat found a piece of gingerbead; so he put it on a teeny, weeny counter, which he built himself, and sat down behind, on a rattan chair, under an

umbrella, to wait.
"Now," said he, "I'm a grocer. I dare-say that before long I shall become very rich." And smiling at the thought, he began to rock slowly back and forth with his paws folded across his stormach

his stomach.
"Let me see," he continued, "I intend to sell this piece of gingerbread for two cents. If ten people buy it, that will be twenty cents. Just a minute—that won't do—they wouldn't. If I want to get twenty cents, I'll have to sell it for twenty cents to twenty—oh, dear, oh, dear—I'll never figure it out. Now, let me get this right—" And he counted on his fingers, "one, two, three," right up to ten, "one, two, three, four," right up to ten, over and over again until he got so confused and drowsy he fell fast asleep.

He had not been dozing long when he

He had not been dozing long when he was startled by a "thump, thump" on the counter. There stood a rabbit with a silly little smile.

"Good morning, grocer," said the rabbit. 'Good morning, rabbit,'' said the

rat.
"I believe," said the rabbit, standing on one foot and wiggling his nose, "I believe I'll have some lettuce."

"Would you like some gingerbread?"

asked the rat.
"No, lettuce," replied the rabbit.
"Oh—lettuce," said the rat, "but I

haven't any!''
"Well, good-by then," said the rabbit, and he left. The rat sat down in his rocker and he thought and thought and thought. Sud-

denly he jumped to his feet, exclaiming:
"Of course! I must get some lettuce!
I can't seem to sell gingerbread."
So he took the gingerbread to a

farmer, to whom he said: "Farmer, will you give me a head of lettuce for this gingerbread?"
"Surely," said the farmer, and he did

so. "Thank you," said the rat, and he trotted off home.

He was busily arranging his little cou ter once more when a song-sparrow came down the lane, whistling a beautiful song, a summer song all about "the winter's gone away" and "I'm happy all the day" and "grass and "warm breezes" and "throoks full of water" and everything "brooks full of water" and everything, and he had just reached the very high, sweet part about, "Oh, I love everything ever so much," when he caught sight of the rat and his little store.
"Good morning, grocer," said the spar-

"Good morning, sparrow," said the rat.
"I'll take some wheat," said the "Would you like some lettuce?" asked

the rat. "No, wheat," replied the sparrow.
"Oh, do have some lettuce," begged the

rat. "But I want wheat," insisted the sparrow.
"But I haven't any," said the rat.
"Well, good-by then," said the sparrow,

and away he went whistling.

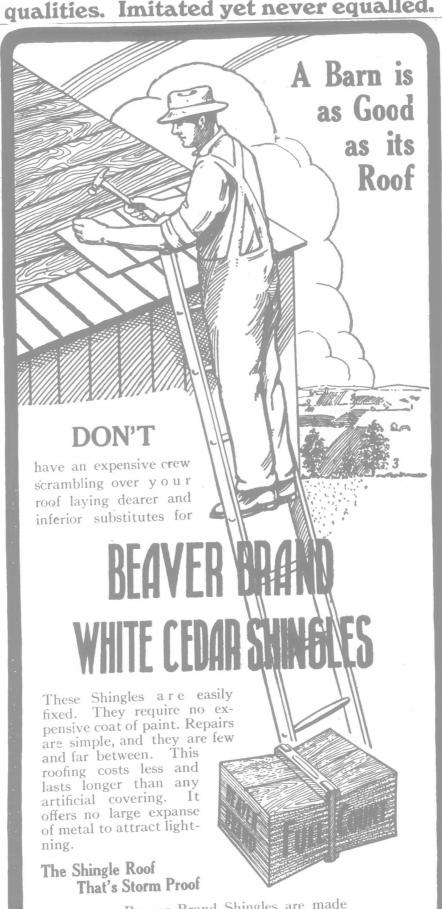
Now, that's strange," thought the rat, "lettuce doesn't seem to be the thing to sell after all. I really feel that I must get some wheat—yes, sir, get some wheat."
So he ran down along the stream until he reached the mill and said to the miller:

"Will you please give me a little wheat for this nice head of lettuce?"

"It is a fine head of lettuce," said the miller, slowly turning it round and round,
"I know, but will you give me some
wheat for it?" asked the rat after a short

"Oh-yes-why to be sure," said the miller, and he gave the rat a double handRich Yet Delicate— Clean and Full of Aroma.

is blended from selected hill-grown teas, famed for their fine flavoury qualities. Imitated yet never equalled.



Beaver Brand Shingles are made only in New Brunswick by

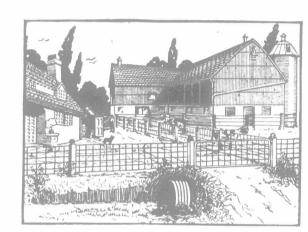
The Bathurst Lumber Company, Limited At Bathurst, N.B.



ANOKA FARM SHROPSHIRES

won 11 firsts, two champions at Toronto 1916. War conditions prevent an extensive exhibit this year but can supply rams and ewes of same breeding at Breeders' prices. Paris, Ont , Brant Co. R. R. No. 3, F. W. Gurney,

make your Home and Farm Buildings proof against fire, lightning and weather and practically do away with any need of repairs for many years.



PEDLARS OSHAWA SHINGLES The Right Roof for Your Home

PIDLARS GEORGE SHINGLES The 20th Century Barn Roofing

PS CORRUGATED SIDING The Siding That Never Rusts or Decays

Keep the Ensilage Sweet and Wholesome

Write for Booklet L.F..

THE PEDLAR PEOPLE LIMITED

Established 1861

Executive Office and Factories, Oshawa, Ont. Branches: Montreal, Ottawa, Toronto, London, Winnipeg, Vancouver

BE INDEPENDENT

IT IS YOUR SAVINGS, NOT PAY CHECKS THAT COUNT

The average town worker with a family cannot save more than \$120 a Rent, food, clothing and expensive annisoments take the rest. Once his machinery, seed and hive stock are pand for the average Western Farmer has a yearly turnover of \$500 and up, his own.

OWN A WESTERN FARM

by Homesteading along the lines of the Canadian Northern Railway, where the newest and most fertile sections are still open for settlement. Booklets and information on application to General Passenger Departments; Montreal, Quee: Toronto, Out.; Winnipeg, Mun.

CANADIAN NORTHERN RAILWAY

When writing advertisers will you kindly mention The Farmer's Advocate sisters. My oldest brother has been to

"You're very good," said the rat, and he started off home.

Before going far, he met a little girl, a sweet little girl, but she looked quite sad. "Well, well," said the rat, "I don't understand this! You have curly hair and you're five years old and you've got on a pretty little dress. Why should you be

"Oh, rat," said the little girl, trying to be brave, although one big tear did roll down her nose, "I've I st my gingerbread."
"Oh," said the rat.

"And I'm so fond of gingerbread."

"And it was the last piece," she added.
"Oh," said he, "Oh. You don't know
how sorry I am. I was just thinking. I tell you what, you come with me and we'll see what can be done," and turning, he led the way rapidly back to the mill. "I say; miller," he called, "will you take

back your wheat and give me my lettuce?" Will I—what?" said the miller, first bowing gravely to the little girl.
"Will you take back your wheat," re-

peated the rat, "and give me my lettuce "Why, certainly," said the miller, "yes" certainly. Here's your lettuce. But keep the wheat. Goodness knows, I've

'Thank you, thank you," said the rat, and away he hurried once more, followed

by the little girl. They crossed a field of clover and crawled beneath a fence and found the farmer mending his rake with a piece of

wire.
"Farmer," gasped the rat, dropping down, quite breathless, on the woodshed give me that gingerbread?'

"Yes, I don't mind," said the farmer, "only I tell you what," he added pleasantly, "just you keep the lettuce. Look,

I've eleven rows in my garden!"
"So you have," said the rat, "but I thank you just the same," and he gave the

gingerbread to the little girl, adding to the farmer, "It's really hers, you know—she lost it—I found it—and then you got it."
"I thank you, too," said the little girl, and she and the rat started off together.
"It was very good of you to get her.

"It was very good of you to get my gingerbread," said the little girl, "and, by the way, as you still have the lettuce and the wheat, why don't we have a party?" "Fine," said the rat, "come home with

me and we'll have it on my little counter. So she agreed, and away they went Soon they came to a tree in which the sparrow was singing his summer song Beneath it lay the rabbit, on his back, in the grass, smiling his silly little smile.
"Oh, this is fine," cried the rat, "they'll

Upon being invited, the rabbit hopped up from the ground; the sparrow flew down from the tree; and they all went

When they reached the rat's home hey drew up the chair for the little gir and the rat spread the food on the counter

"What, lettuce?" cried the rabbit, wiggling his nose and waggling his tail. Yes, and it's for you," said the rat. "What! Do I see wheat?" chirped the

"Yes, and it's for you," said the rat. "And I have my gingerbread," said the little girl. "But rat, what is there for

cried the rest, and they did so the girl broke her giagorbread in half; the rabbit picked out the tenderest leaves of

Junior Beavers' Letter Box.

Dear Puck and Beavers. I go to school very day. Our teacher's name is Helen every day. Our teacher's name is the teacher ROOFING



1-3 The Price of Metal

Guaranteed 15 Years

Guaranteed 15 years. Special August and September price \$3.25 per square.

SEND FOR FREE SAMPLES The Halliday Company, Limited Factory Distributors, Hamilton, Canada,

Aug. 25 TORONTO Sept. 10

JUBILEE YEAR SPECTACLE 1200—PERFORMERS—1200
The last word in spectacular pageantry,

More exhibits, more features and more special attractions than ever before.

MAMMOTH TRACTOR AND FARM POWER EQUIPMENT DISPLAY

A solution for many problems of the farm.

- New and enlarged Government exhibits—
Giant agricultural and live-stock display.

Inspiration, education and recreation on a colossal scale.

Reduced fares on all lines of travel to
The Biggest and Best Show in Exhibition
History



THRESHERMEN---READ THIS!

The Improved Veteran Endless Canvas Drive Belts will give you better service than any other. You want the best. Order now. Sold only by

WINDSOR SUPPLY CO.
57 Sandwich Street West, Windsor, Ont.
Headquarters for Suction Hose and all other
Thresher supplies. Write for catalogue,
"Engineer's Bargains" You can assure your family a

MONTHLY INCOME for LIFE

or assure yourself an income during your old age by means of an Imperial Monthly Income Policy

Write for particulars now and mention The Farmer's Advocate. Address: Imperial Life Assurance Co.of Carada Head Office: TORONTO

Artificial limbs are admitted DUTY FREE. SOLDIERS and others should get the best Erickson Artificial Limb Co. 30 Wash. Av. N., Minneapells, Market Chafe Overhead of Does Not Chafe Overhead of Stark Write

CHIMES AND PEALS

MEMORIAL BELLS A SPECIALTY FULLY WARRANTED MCSHANE BELL FOUNDRY CO., BALTIMORE, Mp., U. S. A. Chloago Office: 154 W. Randolph St. Established 1856



AUGUST 16

Her

MAXWELLS

BE SUR

5% IN ings, tells Write n STANDARD 82-88 Kin

When writi

D 1866

G

etal

mited

anada.

LE

itry.

e special

POWER

ne farm.

el to hibition

Drive

old age

Policy

anada

nitted

IERS

e best

olis, lina.

olay.



Back Up The Boys Who Are Fighting For You!

Work and save as earnestly and wholeheartedly as they are fighting in France!

Work at something that helps directly toward winning the war! Save, and lend your savings to the nation, to finance the struggle and furnish everything needed to the men in the firing line.

For every \$21.50 you lend the nation now, you will get back \$25 at the end of three years—an Interest return of over 5%. Certificates are issued in denominations of \$25, \$50 and \$100 and may be purchased at \$21.50, \$43 and \$86 respectively, at any Bank or Money Order Post Office.

"Save for the men who are saving Canada."

The National Service Board of Canada.

R. B. BENNETT, Director General C. W. PETERSON,

Secretary.

FOR EXCHANGE

We have 20 stockers in good condition which we would trade for dairy cows.

Herold's Farms, Beamsville, Ont.



Une of WASHERS, CHURNS, BUTTER-WORKERS, FOOD CUTTERS, GAS EN-GINES, etc. Write for Catalogue. MAXWELLS LIMITED, St. Mary's, Ont.

5% INSTEAD OF 3%

Your money can earn 5% just as easily as 3% if you invest it in the debentures of the Standard Reliance Mtg. Corpn.
Our booklet, entitled Profits from Savings, tells you all about it.
Write now for a copy. It's free.
STANDARD RELIANCE MTG. CORPN.
82-88 King St. E., Toronto, Ont.

DO YOU NEED Write for our large photo-illustrated Catalogue No. 7 — It's free to you.

THE ADAMS FURNITURE CO., Limited Toronto, Ontario

THE HALLIDAY COMPANY LINITED HAMILTON FACTORY ... DISTRIBUTORS CANADA

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

the front, but got wounded in that great battle Vimy Ridge. He is in a hospital in England. I wish this awful war was Well, as my letter is getting long I will close, hoping the w.-p. b. will be asleep when my letter arrives

Seagraves, Ont. (Age 10 years.)

Dear Puck and Beavers.—This is my second letter to your magnificent Circle; as I didn't see my letter in print I thought

I would try again.

My father has taken "The Farmer's Advocate" for a number of years and likes it fine. I live about a mile from school. Our teacher's name is Miss Batterman. For pets I have a pup whose name is Pinna; he is a fine fellow and I am teaching him tricks. I have read a few books. Ones I like to read are "The Life of General Garfield," "The Boy Scout," and "The Pathfinder." Hoping I may become a Beaver this time, I will close with a riddle.

Why is a lady like a soldier? Ans. Because the lady powders her face and the soldier faces the powder.

Hoping the w.-p. b. is enlisted before George D. Hilts. Marmion, R. R. No. 1, Ont. (Age 11.)

Dear Puck and Beavers.—This is my first letter to "The Farmer's Advocate." I go to school every day and like our teacher; her name is Miss G. I. Campbell. She has been teaching in our school for three years. In am in the senior second class, and am eleven years of age. have a library in our school and have quite a number of books in it. I have read quite a few of them: "What Katy Did," "What Katy Did," "What Katy Did," and a lot more. My parents live in Summerside, but I stay out at my grandma's and grandpa's in the country, and like it great. We live about a mile from a station, and I go into Summerside pretty nearly every Saturday. I was to a birth-day party to-day and had a good time. Well, as my letter is getting long I will close with some riddles.

What four letters will frighten a thief? Ans.—O. I. C. U.
Spell dry grass with three letters.

Ans.—Hay. Twenty sheep went through a gap, twenty more along with that, 3 times seven, 10 and 11, 3 and 2, how many's

that? Ans.—Five. Why is the man in the moon never rich? Ans.—Because he spends all his

quarters getting full.

I would like some of the other Beavers of my own age to correspond with me if they would write first. I remain.

Wilmot Parley, P. E. Island, Canada.

Dear Puck and Beavers.—I have never o your charming Circle before My father has taken "The Farmer's Advocate" for a number of years and we enjoy reading it. I always read the Beaver Circle first. I like reading very much. Some of the books I have read are: Anne of Green Gables," "What Katy Did," "What Katy Did Next," "Alice in Wonderland," "Line Upon Line," David Copperfield and many Will close now with love to the Some of the books I have read Anne of Green Gables," "What others. Will close now with love to the Circle.

NELLIE LESLIE. Ingersoll, Ont. (Age 10, Class Jr. III.)

Dear Puck and Beavers.—This is my first letter to your charming Circle. My father has taken "The Farmer's Advocate" for several years, and we all like it fine. I like to read the little Beavers' letters. I have one brother near Saska toon and one sister in Stratford. I go to school every day I can. As spring is past nearly all the wild flowers have dis-appeared, but you can have some fun fishing. We have a two-hundred acre fishing. We have a two man, farm. We have two woods and a creek flows through one. We have many little chickens. We got out sixty little chickens on the twenty-fourth of May, and now we got forty-eight. Well, as my letter is getting long I will close with some riddles. How can a dunce beat a good scholar?

Ans.—With a stick. When can you look at the sun? Ans.

Well, I hope the W.-p. b. is on its honeymoon. I wish some of the little Beavers of my age would write to me. Hickson, Ont. EDITH A. C. BERG. (Age 10, Jr. III.)

Armour Martin.

Harvest Help Excursions

\$12.00 to Winnipeg

August 21st and 30th. From stations Lyn, Ontario, and West to Toronto inclusive,

August $23\mathrm{rd}$ and $30\mathrm{th}$. From station Toronto, and West in Ontario.

Berth reservations and full information at all Grand Trunk Ticket Offices, or write C. E. HORNING, District Passenger Agent, G. T. Ry, System, Toronto, Ont.

"1900" Gravity Washer

Sent free for one month's trial. Write for particulars.

"1900" WASHER COMPANY 357 YONGE ST., TORONTO, ONT. (Factory, 79.81 Portland St., Toronto)

Keep Your Live Stock Healthy

and in prime condition by supplementing the feed with

LINSEED OIL CAKE "Maple Leaf Brand" With a trial ton order we will send you **free**, "The Veterinarian," a valuable book about the diseases of cattle.

THE CANADA LINSEED OIL MILLS, Ltd.

Toronto and Montreal

CUT DOWN FENCE COSTS

and fencing labor. Use Standard Fence and Steel Tube Fence Posts. Send for prices.

Standard Steel Tube & Fence Co., Woodstock, Ont.

In stock at our warehouse, Toronto. Write us for Quotations.

Canada Grocery Co. 32 FRONT ST. WEST, TORONTO

Did you know that in The Mutual Life of Canada all the accumulated assets belong to the policyholders?

RAW FURS-HIDES WOOL &C. SEND US YOUR
SHIPMENTS TO
RECEIVE HIGHEST
BRICE LIST FREE MARKET PRICES.
JOHN HALLAM, Limited
9 Hallam Building TORONTO

POULTRY REMEDIES A Guaranteed every Common Ailment
Send 10c. for 160-page "Poultryman's Handbook," or write for
FREE Book, "Poultry Wrinkles."Pratt Feed Go. Canada, Ltd.
68 J Claremont St., TORONTO.

Live Hens.

Poultry of all kinds.

Write for prices.

WALLER'S, 702 Spadina Ave., Toronto



Many Thousand Farm Laborers Wanted for Harvesting in Western Canada

"Going Trip West"—\$12.00 to WINNIPEG

"Return Trip East" - \$18.00 from WINNIPEG

GOING DATES

August 21st All stations in Ontario West of Smith's Falls up to and including Toronto on Lake Ontario Shore Line and Havelock-Peterboro' Line; also from stations between Kingston and Renfrew Junction, inclusive, and from stations on Toronto-Sudbury direct line. From stations on Sauit Ste. Marie branch. From stations on Main Line, Beaucage to Franz. inclusive. From stations Bethany Junction to Port McNicoll and Burketon-Bobcaygeon.

August 23rd and Coven Sound, Walkerton, Teeswater, Wingham, Elora, Listowel, Goderich, St. Mary's, Port Burwell and St. Thomas branches, and stations Toronto and North to Bolton, inclusive.

SPECIAL THROUGH TRAINS

Further particulars from Canadian Pacific Ticket Agents. W. B. HOWARD, District Passenger Agent, Toronto.



Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted and Pet Stock.

TERMS—Three cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 50 cents.

FARM WANTED-WANTED, FROM 100 TO FARM WANTED—WANTED, FROM 100 TO 300 acres of land for market gardening, fruit and general farming, in Central Ontario. Must be near a railway. Vicinity of town or large village preferred. Must have good supply of pure water, also building site of sandy loam, suitable for commodious farm buildings, this site preferably backed by hills or ridge on the north and west, and with good open scenic view to the south and east. Property including a wood lot of 10 acres or more preferred. The higher the altitude the better, provided other requirements are secured. Give full particulars. Box No. 3, Farmer's Advocate, London, Ont.

GOOD 150 ACRE FARM FOR SALE IN KENT County, in the peach, tobacco, and early vegetable belt, near village, lake, summer resort, electric railway; \$80 per acre, terms easy. Apply to Box S, Farmer's Advocate, London

SCOTCHMAN WILL HIRE OCTOBER, TO work and manage farm; could handle 10 or 12 cows. Box Mc, Farmer's Advocate, London, Ont

WANTED—MARRIED MAN BY THE YEAR for dairy farm; good house furnished, would require man accustomed to handling horses and assist with milking; wages paid monthly. C. V. Robbins, Bell Phone, Wellandport, Ont.

WANTED—BY A PRACTICAL DAIRYMAN—Position on a dairy farm; could take entire management; college graduate; married; disengaged end of August. Box W, Farmer's Advocate, London, Ont.

PATENTS AND LEGAL
FETHERSTONHAUGH & CO. PATENTS.
Solicitors. The Old Established Firm. Head
Office, Royal Bank Building, Toronto, and 5 Elgin
Street, Ottawa, and other principal cities. Send

PATENTS Trade Marks and Designs procured in all countries.

Special attention given to Patent Litigation. Pamphlet sent free on application.

RIDOUT & MAYBEE Crown Life Bldg TORONTO, ONT



Condensed advertisements will be inserted under this heading at three cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisements inserted for less than 50 cents.

CANADIAN RINGLET BARRED ROCKS Trapnested—the breed for eggs and meat. J. Coldham, Barriefield, Kingston, Out.

The officiating minister at the Welsh chapel in the hills was of English extraction, but he did his best with the Welsh read from the pulpit. This was the conclusion of his announcement: "And, dea friends, on Friday night there will be th congregation were reastified as to the identity of the Yunaka all execut the author of the document who know he had an the vicinity of Bixschoote, while the written Y.M.C.A." David his nicle," Canadians made an advance west of

The Dollar Chain

The Dollar Chain this week took another new lease of life, and we have been able to send a cheque for \$60 to the Soldiers' Comforts Fund, always in need of money

Contributions from Aug. 3rd to Aug 10th were:

"Toronto," ("Hope"), \$5; B. M. \$2; "Helper," \$10; A Reader, R. Auburn, Ont., \$2; "Charity," Watford, Ont., \$15.

Amount previously acknowledged.

Total to Aug. 10th

Kindly address contributions to "The Farmer's Advocate and Home Magazine," London, Ont.

Current Events.

Senate and was returned to the House with a single amendment asked for by the It becomes law im-

Brigadier General Arthur Currie, first Canadian head of the Canadian overseas troops, has been knighted by the King.

Sir Richard McBride, former Premie of British Columbia, died in London, Eng

Italy has decided upon a standardized shoe of stout make and reasonable price."

The famous German regiment known as Malkaefer or "Cockchafers," has been practically destroyed by Welsh troops.

Recent despatches state that the reports in regard to the serious state of Kerensky's health are unfounded. He

Herbert C. Hoover, Food Administrator of the United States, has declared prompt war on food speculators and profiteers in the United States, the President and Congress having granted him full power to deal with all such selfish and impatriotic people. The day on which ie was formally appointed to and President Wilson sent him as a gift the pen with which the food control bill

Great Britain has refused to send delegates to the Socialist Conference called for by the Conneil of Workmen and Soldiers of Russia, which is to be

Caraclians unde an advance west of Low Boshir reports a gain near St.

. On the Roumanian front, notwithstanding the strenuous efforts of Kerensky and Korniloff, the Teutons continue to advance, threatening to over run Northern Roumania and Bessarabia. The Roumanians are reported as fighting stubbornly. . . Italy reports a series of attacks made by her triplanes on the Austrian naval port, Pola.

Germany has demanded a loan of gold from Switzerland in return for shipments of coal. This is believed to indicate that the Teutons are coming to the end of their resources for buying from such neutrals as they are still able to deal with.

Markets

Montreal Produce.

Horses.-Nothing took place during the past week to stimulate interest in the horse market. The Government continued to make purchases for war purposes, but outside of this it would not appear that any horses have been changing hands. Prices continued unchanged.

Dressed Hogs and Provisions.—There was practically no change in the market for dressed hogs during the past week, but the tone of the market was influenced by that of live hogs and the tendency of rices was upwards. Abattior freshkilled stock was quoted at 2334c, to 24c.

per lb.
Potatoes.—The outlook for the coming both in Canada and in the U.S. and predictions are that prices will be lower than a year ago. Meantime, quotations of new potatoes showed a wide range, being from around \$5 to \$6 per barre!, at 170 lbs.

Maple Syrup and Honey.—Practically no change took place in honey. White clover comb was quoted at 15c., and brown at 13½c. White extracted was quoted at 13c., and buckwheat honey was to be had at 11c. Maple syrup was neglected. Prices were steady, at \$1.75 per gallon for extra choice syrup; \$1.60 for choice, and as low as \$1.30 for common grades.

Eggs. - Owing to the scarcity of choice stock at this time of year, the market was generally strong. New-laid eggs were scarce and the price advanced to 50c, per dozen. Selects were 46c. and No. 1 candled 42c., while No. 2 candled sold

Butter.- During the past week, the ditional firmness. Quality has been affected by the heat, and it was believed that the high price of cheese has been attracting some factories in the direction of cheese making rather than butter-making Quotations on finest creamery were from 40c, to 40½c, per, lb while fine was within 1c. of these figures. Dairy butter was 36c. to 37c. for good to fine and as low as 34c. for common

Cheese.—Official prices were unchanged, at 21³4c. for No. 1; 21¹2c. for No. 2; 20³4c. for No. 3; and 20¹2c. for

lower grades. Grain. -There has been a fair demand

for Manitoba feed wheat, at \$1.82 per bushel, ex-track, and for Western rye No. 2, at \$2.40 per bushel. New crop Ontario malting barley would cost about \$1.35. Canadian 5-lb. picker beans were \$9.25 to \$9.50 per bushel, and Rangoons \$9.00, with yellow eyes at \$8 to \$8.75. The market for oats was easier, with No. 2 Canadian Western at 83c. to 84c.; No. 3, at 82c. to 83c. and extra No. 1 feed, at 81c. to 82c.

Flour.—The market was steady. Manitoba spring wheat first patents were \$13; seconds, \$12.50, and strong bakers', \$12.30 per barrel, in bags. Ontario 90 per cent. patents were \$12.40 to \$12.55 per barrel, in wood, and \$6 to \$6.15 per

Millfeed.—The market has been very strong and bran was \$2 up, at \$37 per ton; shorts being \$3 up, at \$43, although some were selling at former prices, including bags. It is doubtful if the higher figures were generally obtained. Middlings were \$48 to \$50 per ton; pure grain mouille \$60 to \$61, and mixed mouille \$55 to \$56.

Hay.-The market for hay was unchanged, at \$10 to \$10.50 per ton, for No. 2 baled, and \$8.50 to \$9 for No. 3, carloads, ex-track. A heavy crop is

practically assured.

Hides.—The only change in the market last week was an advance of 20c. each in the price of lamb skins, bringing the quotation to \$1.40 each. Calf skins were 38c. to 40c. per lb. for No's. 2 and 1. Beef hides were 25c., 26c. and 27c. per lb. for No's. 3, 2 and 1. Horse hides were \$7 each. Rough tallow was 3c. to 6c. per lb. and rendered 11c. to 13c. lb., and rendered 11c. to 13c.

Cheese Markets.

Perth, 21¼c.; Cornwall, 21¾; Vankleek Hill, 217/16c.; Belleville, 21¾c.; Cowansville, Que., 20¾c.; St.Hyacinthe, 20¾c.; London, 21c.; Montreal, finest westerns, 21¾c.; finest easterns, 21¾c.; New York, specials, 23¼c.; average run, 22¼c. to 23c. 2214c. to 23c.

Thousands of Men Required for Harvesting in Western Canada.

Thousands of men are required to help in the great work of harvesting the Western crop. Arrangements for trans-porting to the West this great army of workers have been completed by the Canadian Pacific Railway.

Excursions from points in Ontario to Manitoba, Saskatchewan and Alberta will be run, and special trains operated, making the trip in about thirty-six hours,

without change or transfer.
Going trip West, \$12.00 to Winnipeg.
Returning trip East, \$18.00 from

Winnipeg.
Consult C. P. R. Agents regarding transportation west of Winnipeg. Going Dates.

tions in Ontario, west of Smith's Falls, up to and including Toronto, on Lake Ontario Shore Line, and Havelock-Peterboro line, also from stations between Kingston and Renfrew Junction, inclusive, and from stations on Toronto-Sudbury direct line. From stations on Sault Ste. Marie branch. From stations on main line, Beaucage to Franz, inclusive. From stations, Bethany Junction to Port Mc-Nicoll and Burketon-Bobcaygeon.

August 23rd and August 30th-From stations west and south of Toronto, up to and including Hamilton and Windsor, Ont., on Owen Sound, Walkerton, Teeswater, Wingham, Elora, Listowel, Goderich, St. Mary's, Port Burwell and St. Thomas branches, and stations Toronto and north to Bolton, inclusive. Further particulars from any C. P. R. Ticket Agents, or W. B. Howard, District

Questions and Answers. Miscellaneous.

Passenger Agent, Toronto, Ont.—Advt.

Disqualification of Councillor.

1. Is it illegal for a reeve, or any other member of a township council, to work his team at roadwork being carried on by that council?

2. Does it make any difference, supposing the team is being driven by his son and is entered in the time-book in the son's name?

Ans.— 1. Yes. 2. No.

AUGUST 16

FLEMING is a special blemishes—l Curb, Cappe ment nor a s any other—tated. Easy your money describes an and gives have before remedy. M

75FLEM

You C

will and y Does Will Bool the ar reduc Musclet Weas, Cysts. All bottle at drugg W.F. YOUNG, P. DR. PAGE'S

Cures the lamer Ringbones, Cur

J. A. JOHN 171 King Hara Fert

THE ONTA Alloway Angus—S

Robt. McEv Kennelwort At special I

Cows with calf One Ayrshire bu IF ANGI

PETER A. TH

Beaver H

visit SUNNY Wm Channon G SHO

Choice young co the best dual-pu Scotch breeding STEWART M. MAPLE Shorthorns; Shree satisfactorily fills

PR

J. BAKER, R. MARDE Bulls, females, si cattle over 40 years lbs. milk, 474 lb Thomas Graha

SHORTI young cows and and quality. Manchester P. ıdy.

per

ugh

uille

the

d 1.

ithe.

3/4c.;

run,

for

the

ans-

the

urs,

ding

alls,

_ake

ock-

veen

sive,

oury

Ste.

nain

Mc-

rom

p to

dsor, fees-

ode-St.

onto

R.

trict

lvt.

S.

ı.

ıncil,

peing

ence,

y his

the blemish came.

FLEMING'S SPAVIN CURE (Liquid)
is a special remedy for soft and semi-solid
is a special remedy for soft and semi-solid
blemishes—Bog Spavin, Thoroughpin, Splint,
blemishes—Bog Spavin, It is neither a linicurb, Capped Hock, etc. It is neither a linicurb, Capped Hock, etc. It is neither a linior a simple black.

ter—doesn't imitate and can't be imfer—doesn't imitate and can't be imfEasy to use, only a little required, and
oney back if it ever fails.

your money back It It ever I alls.

Fleming's Vest-Pocket
Veterinary Adviser
describes and illustrates all kinds of blemishe
and gives you the information you ought to
have before ordering or buying any kind of
remedy. Mailed free if you write. 75 FLEMING BROS., Chemists
Church Street. Toronto, Ont.

You Can't Cut Out A BOG SPAVIN, PUFF or THOROUGHPIN,

BSORBINE will clean them off permanently, and you work the horse same time. Does not blister or remove the

hair. \$2.00 per bottle, delivered. Will tell you more if you write. Book 4 K free. ABSORBINE, JR., the antiseptic liniment for mankind, reduces Varicose Veins, Ruptured Muscles or Ligaments. Enlarged Glands, Goltres, Weas, Cysts. Allays pain quickly. Price \$1.00 and \$2.00) bottle at drugsists or delivered. Manufactured only W.F. YOUNG, P.D.F. 258 Lymans Bldg., Montreal, Can.

DR. PAGE'S ENGLISH SPAVIN CURE Cures the lameness from Bone-Spavins, Side-Bones, Ringbones, Curbs, Splints, etc., and absorbs the bunches; does not kill



the hair, absorbs Capped Hocks, Bog-spavins, thick pastern oints; cures lameness in tendons, most powerful absorbent known; guaranteed, or money refunded. Mailed to any address. Price \$1.00

Harab-Davies

Write for Booklet THE ONTARIO FERTILIZERS, LTD. WEST TORONTO

Alloway Lodge Stock Farm Angus—Southdowns—Collies SHOW FLOCKS

Rams and ewes. Heifers in calf to Queen's Edward,

Robt. McEwen, R, R. 4. London, Ont. Kennelworth Farm Aberdeen-Angus

At special prices, six young bulls sired by Victor of Glencairn. All are of serviceable age, and show individuals, PETER A. THOMSON Hillsburg, Ont.

Beaver Hill ABERDEEN-ANGUS AND OXFORD DOWN SHEEP Cows with calf at foot and bred again.
Shearling rams and ram lambs.
One Avrshire bull colf for a rational control of the One Ayrshire bull calf for sale.

Alex. McKinney, R. R. No. 1, Erin, Ontarlo

IF INTERESTED IN ANGUS CATTLE wisit SUNNY ACRES FARM, or write to Wm Channon & Son, Oakwood, Ontario

GLENFOYLE SHORTHORNS

PRESENT OFFERING

Choice young cows and heifers. Young bulls of the best dual-purpose families; also four females of Scotch breeding for sale. Prices right.

STEWART M. GRAHAM, LINDSAY, ONT.

MAPLE LEAF FARM Shorthorns; Shropshires; both sexes. Mail orders matisfactorily filled.

J. BAKER, R. R. 1, HAMPTON, ONT.

MARDELLA SHORTHORNS

Bulls, females, sires, quality; breeding dual-purpose cattle over 40 years. The Duke—dam gave 13,599 lbs. milk, 474 lbs. butter-fat—at the head. Thomas Graham, Port Perry, Ont., R. R. No. 3.

SHORTHORNS—Pail-fillers for sale, Young bull and heifers out of high-record cows. A few young cows and bulls with extra good breeding and quality.

PETER CHRISTIE & SON, Manchester P. O.,

Port Perry, Ont. Co

Gossip.

Twenty-five Jerseys on Sale.

Breeders of dairy cattle should not fail to study the advertisement of Ira Nichols, Burgessville, Ont. On Wednesday, Aug. 29, 1917, he is selling twentyfive head of registered Jerseys at the Royal Hotel stables, Woodstock, Ont., and from them can be chosen prizewinners and the get of such. Some of them were first prize winners at Toronto and the Guelph Winter Fair, while many of their progeny will be included in the sale. See the advertisement and write to Mr. Nichols for full particulars regarding this splendid offering of Jerseys.

The Farmer's Advocate" regarding the pigs they are offering for sale through these columns, William Stevenson & Son, Science Hill, Ontario, write: "We have a number of pigs sired by Curly King 9997 and more sows bred to him. Curly King is a splendid sire and a great show pig. He is a past silver modellist. at Toronto. Exhibition and medallist at Toronto Exhibition and winner of first prize in his class. are also offering a limited number of pigs whose dam is Lily 14155. Lily was first in a class of under nine months and over six, and also reserve champion at the Guelph Winter Fair last year. The rest of the herd are of quite as good breeding but have never been in the show-ring."

Hood Farm Jerseys and Berkshires.

Hood Farm, Lowell, Mass., is the home of one of the most famous family of Jerseys, namely, the Sophie's Tormentor family, and the scene of some of the most constructive breeding carried on during the last quarter century on this continent. The proprietor, C. I. Hood, assisted by J. E. Dodge, is putting forth every effort to still further improve upon a herd of Jerseys which for years have been winning medals and championships and contributing sires to some of the leading Jersey herds in America. In the past seven years since the American Jersey Cattle Club has given medals annually for the highest producer in each class Hood Farm has won twenty-three gold medals. This is more than twice as many as any other breeder. Hood Farm bred the sires of twenty-four gold medal winners and owned or bred over one-half of the champion yearly producers. Recently the A. J. C. C. published in the Jersey Bulletin a list of the champion Jersey cows in each of the eight classes for each State in the Union and Canada. The eight Jersey cows, champions of their classes in Massachusetts, were all owned at Hood Farm and gave an average yearly production of 14,231.8 pounds milk, 941.4 pounds of butter, 85 per cent. fat. The eight champions of New York were owned by six different breeders; Hood Farm bred the sires of two of these champions. The eight champions of Pennsylvania were owned by four dif-ferent breeders; Hood Farm bred one of these champions. These remarks are recorded here only to express the results attained by C. I. Hood in his efforts for greater production through blending the blood of great performers which were largely descendents of Sophie's Tormentor. One of the leading sires in service at Hood Farm is Pogis 99th, now sire of thirty-five Register-of-Merit daughters, and others on test. He is proving, by his daughters, to be one of the greatest sires of the breed produced up to this time, and he is transmitting the wonderful dairy qualities of his dam, Sophie 19th of Hood Farm. These few conservative remarks explain only in part the quality of Hood Farm Jerseys, which are being advertised in these columns, and in regard to Berkshires which are also a leading issue, it is necessary only to state that the grand champion boar of the United States for the past three years has either been bred and sold by Hood Farm, or been shown by Hood Farm. The two boars in service, Longfellow's Double and Baron's Successor, are considered by expert judges to be the best two Berkshire boars in the country today. Hood Farm is able to ship young pigs to Canada, having sent some across the border only a few weeks ago. Correspound with this Farm if in need of Jerseys

No More Sore Shoulders

Mr. Horse-owner:

Probably you know of and are a user of "Ventiplex Pads." If not, right now is none too soon to equip all your horses with them. "Ventiplex" Horse Pads cure "Gall Sores" and prevent "Sore Shoulders."

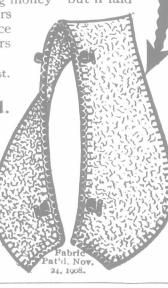
When horses are well they earn big money—but if laid up at times they are a loss. A few dollars

spent on "Ventiplex" pads will produce bigger returns by hundreds of dollars every year.

Further information gladly furnished on request. Your dealer will supply you. Burlington Blanket Co., Ltd.

793 King St. W.,







BUILD A STURDY STAVE

Cost Less and 100% More Durable

Our Preservative Process is an Exclusive Feature.

A 50-page Fully Illustrated Descriptive Catalogue free on request. Territory still open to live Agents.

THE ADIRONDACK SILO CO. OF CANADA, LIMITED 7 425 Atwater Avenue - Montreal, P.Q.

Bell Telephone

HILLSDALE FARM

Farm, 31/2 miles east of Ottawa

B. ROTHWELL

BREEDER OF HIGH-CLASS CLYDESDALES
R. R. No. 1. OTTAWA, ONT. Write me for prices on champion mares.

OUR LATEST IMPORTATION OF CLYDESDALES arrived at our barns late in November. A number of them since have been prominent winners at both Guelph and Ottawa. But we have others (both stallions and mares) that were never out, the majority of the stallions weigh around the ton, and better quality and breeding were never in the stables. Come and see them. We like to show them. SMITH & RICHARDSON, Columbus, Ontario

WOODLANDS BROWN SWISS AND PONIES

We have no Clydes, left for sale. Our special offering is Brown Swiss bulls out of high-testing and big-producing dams. Strictly high-class. Also Shetland and Welsh ponies. R. BALLAGH & SON, GUELPH, ONTARIO

OAKLAND---50 SHORTHORNS A herd of feeders, breeders and milkers that give satisfaction wherever they go. One bull for sale, 12 months, white, extra milk strain.

Also females, any age. Priced so you can buy. One of the finest bulls in Ontario heads this herd.

JNO. ELDER & SONS, HENSALL, ONTARIO

SALEM SHORTHORNS

Herd headed by Gainford Marquis (Imp.), undefeated in England and Canada. Sire of the winning group at Canadian National, 1914, 1915 and 1916. Can supply cattle, both sexes, at all times.

J. A. WATT, ELORA, ONTARIO

Glengow Shorthorns, Cotswolds

For the present we have sold all the Cotswolds we wish to spare, but we have a choice offering in young bulls, fit for service. They are all of pure Scotch breeding, and are thick, mellow fellows, bred in the purple. WM. SMITH, Columbus, Ont. Myrtle, C. P. R.. Brooklin, G. T. R., Oshawa, C. N. R.

SHORTHORN CATTLE AND LINCOLN SHEEP Young cows and heifers of the best Scotch families. Sire in service, Sittyton's Selection =86508=
The winning pen of long-wool lambs, all breeds competing, at 1916 Guelph Winter Fair, came from this flock. Imported and home-bred rams and ewes for sale.

R. S. ROBSON & SON,

DENFIRID.



The pail and teat-cups are suspended from the cow's back. The teat-cups cannot fall to the floor and suck up manure or straw. The Omega has no rubber tubes. The Omega has no rubber tubes. The Omega has no rubber tubes. The Omega complete the comparishment of th

Ship your cream to us. We pay all express charges. We supply cans. We remit daily. We guarantee highest market price.

Ontario Creameries, Limited London, Ontario

We are open to buy cream both for churning and table use.

ASK ANY SHIPPER

about our service and prompt returns.

Ask for Prices. The figures of yesterday may be TOO LOW for to-morrow. We furnish cans.

The Toronto Creamery Co., Limited Toronto

Church Street,

MESSRS. A. J. HICKMAN & CO. (LATE HICKMAN & SCRUBY). COURT LODGE, EGERTON, KENT, ENGLAND, exporters of

PEDIGREED LIVE STOCK

of all descriptions. Specialty made of draft horses, beef and dairy breeds of cattle, show and field sheep. Illustrated catalogues and testimonials on application. All enquiries answered with pleasure. Now is the time to import. Prospects were never better, and insurance against all war risks can be covered by payment of an extra 1% only.

Pure Cottonseed Meal

Mills conveniently located in every cotton-growing State in the South. Prices on application in car lots or less.

Fred. Smith, 32 and 34 Front St. W., Toronto

PLASTER HILL HERD

DUAL-PURPOSE SHORTHORNS A few choice bull calves coming on; also a heifers in calf to Butterfly Champion 110726 F. Martindale & Son, Caledonia, Ont. R. R. 3

Dr. Bell's Veterinary Medical Wonder, 10,000

Growing Tobacco Seed.

EDITOR "THE FARMER'S ADVOCATE":

In years past the lack of strong, viable seed has caused the tobacco growers of Ontario considerable trouble and some loss. This can easily be remedied if each tobacco grower would select a few seed plants and grow his own seed.

At the Harrow Tobacco Station it has been found that good, home-grown seed not only produces plants which mature earlier in the field but also produces earlier more uniform seedlings in the plant-bed than foreign-grown seed.

In selecting seed plants the field should be carefully gone over before topping, and about twice as many plants selected as are required for the amount of seed to be produced. The plants selected should be typical of the type of tobacco grown, early, with a good-sized leaf of good shape, and the distance between the leaves on the stalk should not be too long. The number of leaves on the plant and the color of the leaves about ripening time should also be taken into considera-

After the first selection these plants should be carefully studied from time to time and any developing undesirable characteristics discarded. Before the characteristics discarded. first flowers open each seed head should be trimmed up until only the fine top branches are left. It should then be covered with a 14-pound manila bag, the mouth of which is tied loosely around the stalk just below the lowest remaining branches. About every ten days these bags should be removed, and all suckers, late pods, and fallen blossoms taken out, after which the bags should be re-placed. When the seed pods are all formed and begin to turn brown the bags should be taken off and the seed heads allowed to ripen in the open. By doing this the pods mature earlier and there is not so much danger of them moulding.

After the greater portion of the seed pods turn brown the seed heads should be harvested and hung in a dry place for about two months, after which they may be shelled.

D. D. DIGGES. Supt. Tobacco Station, Harrow, Ont.

Two-Thirds Of Canada For Timber Crops.

One of the surprises to those visiting Europe in peace times is the method by which all lands are carefully examined and put to work according to their No farmer is permitted to locate on non-agricultural soil, and at the same time, good farming soil cannot be retained under such a crop as timber. Canada has only made a beginning at applying such a policy of business efficiency in the use of the nation's natural resources. Thousands of farmers are todollars an acre, their efforts and ambitions practically wasted in a time when manpower is at a high premium. Taking the whole of Canada's area, more than two-thirds will never produce field crops, and the bulk of the two-thirds will prove profitable under only one crop, namely,

All efforts for the protection of the forests against fire and other forms of needless waste aim to keep in a productive condition those millions of acres that can never grow field crops. Canada holds a tremendous national advantage in her forests, but from the beginning of the last century about two-thirds of the original inheritance has been destroyed by fires. Nearly all modern countries have put an end to forest fires by carefully organized protective systems. Canadian Forestry Association.

Canadian Ayrshire Herd Book.

The Canadian Ayrshire Herd Book. volume 26, is off the press, and through the courtesy of the Secretary of the Asoffice. This volume contains the pedigrees of cows and bulls numbering from 48921 to 53025. It is a large, neatly-bound volume and contains a number of \$1.00 bottles FREE to horsemen who give the Wonder a trial. Guaranteed for Colic, Inflammation of Lungs, Bowels, Kidneys, Fevers and Distempers, etc. Send 25c. for mailing, packing, etc. Agents wanted. Write address plainly.

Dr. Bell, V. S.,

Kingston, Ont.



Pleasant Valley Farms

Offers for sale, (Imp.) Loyal Scot, conceded to be one of the best stock bulls in the country. Also good young bulls and females with the best of individual merit and breeding. Inspection invited. Geo. Amos & Sons, Farm 11 miles east of Guelph, C.P.R.

1854 MAPLE LODGE STOCK FARM 1917

SHORTHORNS AND LEICESTERS
Three shearling rams, some lambs and ewes for sale.
R. R. I, CLANDEBOYE, ONT

BURNFOOT STOCK FARM

Breeders of high-record, dual-purpose Shorthorns with splendid conformation for beef.

Visitors welcome.

GOORE, Prop. Farm one mile north of Caledonia CALEDONIA, S. A. MOORE, Prop.

WILLOWBANK STOCK FARM SHORTHORN HERD Established 1855. This large and old-established herd has at the head the two great bulls, Imported Roan Chief = 60865=, a Butterfly; and the prizewinning bull, Browndale = 80112 = a Mina. An extra good lot of young stock to offer of either sex. Splendid condition. Good families of both milking strain and beef.

James Douglas Caledonia, Ontario

CREEKSIDE FARM SHORTHORNS We have for sale, at present, a number of young things by our former herd sire, Clan Alpine (the Claret-bred bull, by Proud Monarch). We like them—so will you. If it's young bulls or a few females you need, we would

Salem, Ontario Geo. Ferguson, Elora Station, C. P. R., G. T. R.

SHORTHORN We have several newly-imported bulls of serviceable age. Cruickshank, Marr and Duthie breeding, as well as a number of choice, home-bred young steers, got by our noted herd sire, Proud Monarch, by Royal Blood. Get our prices before buying elsewhere. RICHARDSON BROS., Columbus, Ont.

Imported Shorthorns

Thirty-five imported cows and heifers, forward in calf to service in Scotland; also five imported bulls. Our 1916 importations are all choicely bred. Have also home-bred bulls and females. Fundamental finite from Burlington Junction. Write or call and see us. J. A. & H. M. Pettit, Freeman, Output

SPRUCE GLEN SHORTHORNS

of such popular strains as Minas, Fames, Miss Ramsdens, Florences, Emilys, etc.
Have still a few young bulls—thick, mellow fellows, fit for service.

JAMES McPHERSON & SONS

DUNDALK, ONTARIO

SHORTHORNS

Imported and Canadian bred.

A. G. FARROW, Oakville, Ont.

SPRING VALLEY SHORTHORNS

Herd headed by the two great breeding bulls, Newton Ringleader (imp.) 73783, and Nonparell Ramsden 83422. Can supply a few of either sex. KYLE BROS., Drumbo, Ont. Phone and telegraph via Ayr.

Blairgowrie Shorthorn Offering

Imported and Canadian-bred. More bulls to select from than any herd in Ontario, all of serviceable age; also a large number of females, which are bred right and priced right. All the stock for sale JOHN MILLER, Ashburn, Ont.

Myrtle Station, C.P.R. and G.T.R.

Robert Miller, Stouffville, Ont. still has a few Shorthorn bulls fit for service, and some females that are as good as can be found for the man that wants to start right in Scotch Shorthorns. They will be sold at a low price, considering with example of the start of the start of the start right in Scotch Shorthorns. Write for anything in Shorthorns or Shropshires. One hour from Toronto.

Riverside Holsteins "Herd headed by "King Johanna Pontiac Korndyke" a brother of Pontiac Lady Korndyke, 38.02 lbs. butter in 7 days, 156.93 when made. His ten nearest relatives have official record that average His daughters have made good in official test. The present R.of P. cow Choice young bulls for sale.

J. W. RICHARDSON, R. R. No. 2, CALEDONIA, ONT.

AUGUST 1

for potatoes diggers even save all the

Manor Those highdo we

SATISFA Gor CLARKSON

We have the obull, Ormsy J world's most falso a 30-lb.ca average 38.4 ll of lesser note a

R. M. Holtby

sale in pure-b heifer calf, elev Wm. J. Ro REG Pontiac Segis bull "Sir Pont brother to K.P

40.15 lbs.; from 40.14 lbs. His a brother to sin lbs., from a 3 Johanna, 50.68 lbs.; Mabel Se from sister sire lbs. Stock for s Ev

Canadian A Glencairn

The (

ability from 8, production app and young bull Rockton, Ont Choice C At Special Priviceable ages.
Come and see Jno. A. Morri

For July sales Choice bull call JAMES BEGO

CITY V

AT

Th Wednesday at Royal

25 Head Some of them Toronto and many of the in sale.

IRA NICHO TWENTY I Registered

We have bred Champions, for We bred and ha pion Berkshire provement, wri and prices. HOOD FARM 1866

ntario

ONT

ONT.

ERD

ported

of both

ntario

LS

reeding, rch, by , Ont.

Farm 1, Ont

TARIO

Ont.

npareil

la Ayr.

riceable for sale

G.T.R.

ind for

brother 156.92

verage P. cow

ONT.

JEFFERSON, ONT.



Manor Farm Holsteins

Those wishing a young sire from high-record dams and sired by King Segis Pontlac Posch, will do well to write for pedigree and prices before buying elsewhere. SATISFACTION GUARANTEED

Gordon S. Gooderham

CLARKSON

We have the only two sons in Canada of the 46-lb. bull, Ormsy Jane King, only mature son of the world's most famous cow. One of them for sale. Also a 30-lb.calf, whose dam and 2 great grandams average 38.4 lbs. butter in 7 days. 11 bull calves of lesser note and females all ages. R. 4, Port Perry, Ont.

Having sold my farm, I am offering for immediate sale in pure-bred Holsteins, 1 bull, 2 cows, and 1 heifer calf, eleven months. All information cheerfully given

Wm. J. ROBINSON, Florence, Ont. REGISTERED HOLSTEINS

REGISTERED HOLSTEINS

Pontiac Segis Avondale: Brother to the \$9,000
bull "Sir Pontiac Waldorf Pietertje", sired by a
brother to K.P. Lass, 44.18; K.P. Diona Pietertje,
40.15 lbs.; from a brother to dam of "Pontiac Josie"
40.14 lbs. His dam 29.89 lbs. at 4 years, sired by
a brother to sire "Duchess Lucy Mercedes," 46.83
lbs., from a 31.71 lb. sister to sires Segis Fayne
Johanna, 50.68 lbs.; Fancher Farm Maxie, 46.84
lbs.; Mabel Segis Korndyke, 40.32 lbs. Her dam
from sister sire is "Pauline DeKol Ophelia," 44.51
lbs. Stock for sale. Wm. A. Rife, Hespeler, Ont.

Every farm should have

AYRSHIRE The Cow for Profit WRITE

Canadian Ayrshire Breeders' Association W. F. STEPHEN, SECRETARY-TREASURER HUNTINGDON, QUE.

Glencairn Ayrshires Herd established 40 ability from 8,600 to 11,022 lbs. If that sort of production appeals to you, we have heifers all ages and young bulls for sale. Thos. J. McCormick, Rockton, Ont., Copetown Stn., G.T.R.

Choice Offering in Ayrshires At Special Prices. Several young bulls of serviceable ages. All from R. O. P. sires and dams. Come and see them. Jno. A. Morrison,

Mount Elgin, Ontario CITY VIEW AYRSHIRES For July sales: Senator "42110," four years old. Choice bull calves, all R.O.P. dams. Will exchange one. Must have quality and R.O.P. records. one. Must have quality and R.O.P. records.

JAMES BEGG & SON, ST. THOMAS. ONT.

ERSEYS

AT AUCTION

There will be sold on

Wednesday, AUGUST 29TH, 1917 at Royal Hotel, Woodstock, Ont.,

25 Head Registered Jerseys

Some of them were first-prize winners at Toronto and Winter Fair, Guelph, and many of their progeny will be included

IRA NICHOLS, Burgessville, Ontario TWENTY FIVE YEARS BREEDING Registered Jerseys and Berkshires

We have bred over one half the world's Jersey Champions, for large yearly production, at the pail. We bred and have in service, the two grand Champion Berkshire boars. If you need a sire for improvement, write us for literature, description, and prices. HOOD FARM,

LOWELL, MASS.

Questions and Answers. Miscellaneous.

Bumblefoot.

One of my hens has a sore foot. On examining the foot I noticed it was badly swollen and looked as though it might be an abscess. I opened it and a considerable amount of mattery substance escaped. I have poulticed it but it does not seem to get any better. The other foot is now starting to swell. I feel positive that it is not due to injury. The hens appear in a healthy condition and eat heartily. What treatment do you advise? A. S.

Ans.—The symptoms are similar to those of the trouble known as bumblefoot, which is caused by birds jumping from high roosts, stepping on glass, etc. The foot you have lanced should be washed thoroughly with some antiseptic solution and then bandaged. If you do not bandage, dirt will get in the wound and set up inflammation which will prevent healing. If you have not already lanced the other foot bathe it thoroughly and apply kerosene. If an abscess forms, lance, and keep disinfected.

Swelling From Udder Forward.

I have a cow which swelled underneath from the udder forward, and also on the right side of the udder. We drew a little yellowish water from one of the teats She took sick recently and gave no milk for a day or two. The udder is still swollen rather badly, but otherwise the cow feels better. I bathed the swelling with beef brine at night and four or five times with hot water during the day. Is this liable to give much trouble?

Ans.—This condition sometimes occurs in heavy milkers, but the swelling usually goes away when the milk begins to flow freely. There is little can be done except bathing thoroughly with warm water to reduce the inflammation. If the swell-ing underneath gets very bad, it may be lanced, which will allow the mattery substance to escape. Bathing the udder will gradually reduce the swelling. Rubbing, after milking, with a liniment made of 4 ounces sweet oil, 4 ounces laudanum, and 3 ounces extract of belladonna is recommended. From the symptoms given we do not think you need to be very much alarmed about the trouble spreading. It is more of a local nature and is apt to occur at intervals with different individuals.

Gossip.

Niagara Holstein Breeders Hold Field Day.

On Wednesday, Aug. 1, the Niagara Peninsula Holstein Breeders' Club held their first annual Field Day and picnic at Willowbanks Farm, the beautiful home of C. V. Robbins, Welland Port, Ont. Despite the fact that the lateness of the having season interfered greatly with the date, which was set at the last annual meeting of the Club, a large percentage of the breeders throughout the district were present, and an enjoyable, as well as a very instructive day, was spent. While the lady members of the Club were preparing an unusually pretentious and satisfying luncheon the gentlemen, in company with Mr. Robbins, carefully inspected the splendid herd of "Willowbanks" Holsteins in which there are a number of mature matrons that crowd the 20,000-lb. mark for one year's milk production. After the luncheon all listened with interest to a very instructive address given by Prof. E. S. Archibald, Experimental Farms, Ottawa, on the care, selection and feeding of the dairy cow. He also touched briefly upon the success of the milking machine, and strongly advised the dairymen in all localities to take these matters up with his department at all times. Other speakers included C. vr. Hager, President of the Club; E. K. Hampson, Dist. Rep. for Welland; David Elliot, the newly appointed District Representative for Lincoln, and W. L. Handle Secretary of the Club. Mr. times. Other speakers included C. W. Houck announced the date for the first annual club sale as December 11, 1917. The sale to be held in the city of Welland.

HIGHLAND LAKE FARMS

(Farm at Stop 55, Yonge St. Radial) SENSATIONAL OFFERING IN 30-LB. BULLS

We have at present several 30-lb. bred bulls, all nearing serviceable age, that must go out to several of the country's best herds in the near future. They are sired by one of the three sires used in the herd during the past year. Pontiac Korndyke of Het Loo., Avondale Pontiac Echo, or King Segis Alcartra Spofford. Our herd contains more 30-lb. cows than any other herd of equal size in the Dominion. Extended pedigrees mailed on request Extended pedigrees mailed on request. ROYCROFT FARM W. L. Shaw, Prop., NEWMARKET, ONT.

Hospital for Insane--Hamilton, Ont.

Present offerings are 4 grandsons of Dutchland Colantha Sir Mona, and high-testing, large-producing R. of P. dams of Korndyke and Aaggie DeKol breeding. Born during April and May, 1917. Apply to Superintendent.

SELLING QUICKLY—A limited number of young bulls and heifers from approved cows, testing 18 to 30 lbs. in 7 days, and averaging from 7,000 to 12,000 lbs. milk per annum, sired by Sunnybrook Mercedes Natoye, whose dam is a 29.34-lb. cow, and Count Faorit Sylvia Segis, highly strained in blood of the world's record cow. DON'T MISS THIS OPPORTUNITY. Write—

JOS. KILGOUR, Eglinton, Ontario; or Phone Toronto, Belmont 184, Adelaide 3900.

Choice Young Holstein

I am offering a few choice young bulls at bargain prices. These are growthy, healthy, and great individuals. While the bargains last is the time to purchase. Write for prices, extended pedigrees and full information. Kindly give me an idea of the age of the bull that you would require. Correspondence solicited.

Oak Park Stock Farm - R. R. 4, Paris, Ont. - W. G. Bailey

HOLSTEINS HILL

The only herd in America that has two stock bulls that the dam of each has milked over 116 lbs. a day, and their average butter records are over 35 lbs. a week. We have 50 heifers aud young bull to offer, by these sires, and out of dams just as well bred. We invite personal inspection. D. C. FLATT & SON - R. R. 2, Hamilton, Ont. - Phone 7165

CLOVERLEA HOLSTEIN-FRIESIANS

Stock for sale, all ages, from choice, high-testing dams—75 head to choose from. Our special offering is a few choice heifers, due to freshen in September or October. Personal inspection is invited. GRIESBACH BROS. L.-D. Phone COLLINGWOOD, ONT.

EVERGREEN STOCK FARM . . . REGISTERED HOLSTEINS

Just now we are offering a very choice young bull, five months old, whose five nearest dams average over 30 lbs. of butter in seven days and 100 lbs. milk in one day. Also another bull calf whose dam was the top-price cow in the Woodstock Sale. Bell phone.

Norwich, Ont.

DUMFRIES FARM HOLSTEINS

175 head to choose from. Special offering; bulls from one month to one year old
Grandsons of Prince Aaggie Mechthilde. Visitors always welcome.
S. G. & ERLE KITCHEN
ST. GEORGE, ONTARIO

SILVER STREAM FARM HOLSTEINS Present Offering: One bull fit for heavy service, a straight and good individual of richest breeding. Sire's six nearest dams average 30.10 lbs. butter in 7 days; his dam's sire's five nearest relatives average 31.31 lbs. butter in 7 days. Anybody wanting a well bred sire at a moderate price, write at once. J. MOGK & SON, INNERKIP PHONE 1 ON 34, R.R. NO. 1, Tavistock, Ontario.

Lyndenwood Holsteins

Present offering, a bull, 16 months, whose dam won 2nd, Ottawa Dairy Test, 1916. One 11-months bull from a 20-lb. 2-year-old cow. Some fine bull calves from 2 to 5 months; also some choice young cows and heifers with good official records and from R. of M. dams. Write for prices or come and see them. W. J. BAILEY, Lyndenwood Farm JARVIS, ONT.

Pioneer Farm Holstein Herd With big yearly records and high average butter-fat test, and headed by Canary Hartog, grandson of Royalton Violet at 10 years, 30.39 lbs. butter, 735 lbs. milk in 7 days; 29,963 lbs. milk, 1,300 lbs. butter in 1 year. Sire's dam, Royalton De Kol Fern, 34.60 lbs. butter in 7 days, 116 lbs. milk in one day. Bull calves for sale, born after Jan. 25th, 1917; dams over 11,000 lbs. milk up to nearly 16,000 lbs. milk in 1 year, at 2 years old. Walburn Rivers, R.R. No. 5, Ingersoll, Ontario, Phone 343L, Ingersoll Independent Line.

Low Banks Farm Holsteins K. M. Dalgleish, Prop., Kenmore, Ont.

Pontiac Korndyke and May Echo Sylvia—strongest combination of milk and butter in the world Present offering—3 beautiful, young bulls, sired by Sir Echo, from daughters of Pontiac Korndyke, with 2-year-old records of considerably over 20 lbs. each; also 4 sons of Fairview Korndyke, from dams with similar records, going as high as 30.14 lbs. All straight, good individuals at moderate prices.

WILLOWBANKS HOLSTEIN-FRIESIANS

Herd headed by King Walker Pride (C. H. B., 17362) (A.H.B., 207261) who is a son of the famous King Walker and the great show cow, Pride Hengerveld Lennox 30.12, who is a granddaughter of Blanche Lyons Dekol 33.31 and King Segis, who is grandsire of world-champion cow, also of the two highest-priced bulls of the breed.

Young stock for sale.

C. V. ROBBINS Bell Phone WELLANDPORT, ONT.

Glenhurst Ayrshires For 50 years I have been breeding the great Flos tribe of Ayrshires; dozens of them have been breeding. I have lots of them get 60 lbs. a day on twice-a-day milking. Young bulls 1 to 10 months of age, females all ages. If this kind of production appeals to you, write me.

James Benning, Williamstown, Ont.

Edgeley Stock Farm

The home of Canada's greatest producing Jersey, SUNBEAM OF EDGELEY, the Sweepstakes Dairy Cow at the recent Guelph test; is also the improve your herd? We have them. Write for particulars.

JAS. BAGG & SON, Woodbridge, C. P. R.; Concord, G. T. R. EDGELEY, ONT.

THE WOODVIEW FARM

JERSEYS

LONDON, ONTARIO
John Pringle, Prop.

CANADA'S MOST BEAUTIFUL JERSEY HERD

The foundation of this herd is made up of very high-class cows, imported from the Island of Jersey, most of them in the Record of Performance, and while we have, at all times, a few mature cows for sale, we make a specialty of in-calf heifers and young bulls. Write us your wants, or better still, come and see the herd. We work our show cows and show our work cows

BRAMPTON JERSEYS

Young BRAMPION JEKSEYS Buils

For the next fortnight we are making a special offering on young bulls, bred from the highest producing families ever introduced into Canada. Brampton Jerseys and their descendants hold all Jersey R.O.P. records, save one. Females, all ages, also for sale. B. H. BULL & SON, BRAMPTON, ONTABIO

AUGUS

Wilkinson Climax B

1298

Ensilage and Straw Cutter

Our "B" machine, built especially for the farmer. A combination machine -it will cut and deliver green corn into the highest silo or dry straw or hay into the mow. 12-inch throat, rolls raise 6 inches and set close to knives—solid, compact cutting surface. Can change cut without stopping. Can be reversed instantly. Direct pneumatic delivery. Enife wheel carries fans. No lodging, everything cut, wheel always in balance. Steel fan case.

Ende in two styles—mounted or unmounted. We lso make larger type machine for custom work. Ask your dealer about this well-known machine and write us for new catalog showing all styles.



CENTRAL CANADA

Ottawa, Sept. 8th to 17th, 1917

\$25,000 In Prizes for Live Stock New York Hippodrome, Vaudeville Acts, Balloon Ascensions, Aviator. \$9,000 for Horse Racing. Pure Food Show. Gov't Exhibits. Dog Show. NIGHT SHOW—Magnificent Spectacle and Fireworks. British advance in Mesopotamia—Destruction of the Forts at Kut-El-Amara. Ratries Close August 31st. Reduced Railway Rates.

Stewart McClenaghan, President, J. K. Paisley, Mgr. & Sec'y.

Young sows and boars from several litters just weaned. HEROLDS FARMS, Beamsville, Ont. (Niagara District)

Morriston Tamworths and Shorthorns, Bred from the prise-winning herds of England. Tamworths, both sexes; 12 sows, bred to farrow in August and September. Young boars, from 2 to 10 months old. Shorthorns, males and females. Chas. Currie, Morriston, Ont.

TAMWORTHS

Young sows bred for Fall farrow, and a nice lot of young boars for sale. Write:
John W. Todd, R. R. No. 1, Corinth, Ont.

YORKSHIRES Sows 170 lbs. and under not yet bred. Boars 2 and months, 60 to choose from. Bred from prise-winding stock, Eldon Duke still at the head. Tell we your wants.

Cioverdale Berkshires and Shropshires—In Berkshires I can furnish boars or sows, all ages, pairs not akin. All breeding stock imp, or from the stock. In Shropshires can furnish rams or ewes, any age, from imp, stock. Prices reasonable, C. J. LANG, R. R. No. 3, Burketon, Ontario.

Sunnyside Chester Whites and Dorsets. In Chester Whites we have both sexes, any age, bred from our champions of many years. In Dorsets we have ram and ewe lambs by our Toronto and Ottawa champion, and out of Toronto, London, and Guelph winners. W. E. Wright, & Son, Glanworth, Ont.

Polands, Durocs and Berkshires Young stock at all times, both sexes and all ages.
Can also supply anything in Dorsets or South-downs. Everything priced to sell.
Cacil Stobbs, Leamington, Ont.

DUROC JERSEY SWINE.

My herd won all the champion prizes at London, Toronto and Windsor, 1916. Young stock for sale, pairs not akin. Come and see them, or write. Trains met by appointment.

Cuibert Malott, R. R. No. 3, Wheatley, Ont.

Pine Grove Yorkshires Bred from prize-winning stock of England and Canada. Have a choice lot of young ples of both sexes, pairs not akin, to offer at reasonable prices. Guaranteed satisfaction. Joseph Featherston & Son, Streetsville, Ont.

PROSPECT HILL BERKSHIRES Young stock, either sex, for sale, from our imported sows and boar; also some from our show herd, headed by our stock boar, Ringleader. Terms and prices right. John Weir & Son, Paris, Ont., R. R. 1.

Meadow Brook Yorkshires Sows bred for Sept. and Oct. farrow, and a few choice boars fit for service. Young pigs, both sexes and all ages. Prices right. G. W. MINERS, R. R. No. 3, Exeter, Ontario. (Huron County)

SPRINGBANK CHESTER WHITES Young sows bred and more ready to breed. Young pigs, pairs not akin. A number of them are sired by Curly King —9997—, who has been a winner at Toronto and London the last several years. Wm. Stevenson & Son. Science Hill, Ont. at Toronto and London. Wm. Stevenson & Son,

Ouestions and Answers. Miscellaneous.

Dividing Land.

A man wills 200 acres more or less of land to his four children, 50 acres to A B and C, and to D 50 acres and the overplus if any. Can C claim any more than the deed calls for? The lot is 62 rods wide; how many rods long can C claim? D sells half of the overplus to E. Can E claim the rest of the overplus?

Ans.—C cannot claim any more than what the deed calls for. If his lot is 62 rods wide it should be 129.03 rods long. If E buys half of a piece of land from D that is all he can lay claim to.

Leucorrhoea

I have a mare that discharges a thick, whitish substance. Could you tell me the cause and what would cure it?

Ans.—The symptoms are those of leucorrhoea, which is usually a trouble-Flush out the some disease to cure. womb daily with a gallon or a little more of a warm solution of some antiseptic. In the meantime feed well and give three times daily 40 drops carbolic acid mixed with a pint of cold water and sprinkled on her feed or given as a drench. It will require patience as it may take some time of careful treatment to effect a cure.

Bats in a House Wall.

Bats are in between the brick wall and the inside wall of my house. I have tried smoking them out with chloride of lime and sulphur but it does not work. I cannot find any hole in the wall, the bats just seem to push their way in. What will exterminate them?

H. M.

Ans.—The problem is not an easy one There must be some opening around the roof or between the roof and the wall where the bats gain access. If thorough smoking will not drive them out, then the only thing to do would be to search for these openings and close them tightly. It is claimed that if you could disturb them a few times they will change their place of abode, but this is not easily done when they are in such an inaccessible place.

Destroying Sow Thistle.

Is there any way in which I can kill sow thistle in cultivated fields? A. S.

Ans.-Sow thistle is a weed which is rather difficult to eradicate. It not only spreads by the seeds being carried in the air but the roots are dragged by the cultivator points. We have found that allowing the plant to grow up in the spring, then plowing it under about the first week in June and keeping cultivated to prevent any growth showing for a couple of months will go a long way in destroying the plant. Thorough cultivation, either of the summer-fallow, root or corn field, will give results. Another method is to summer-fallow up to the first of July, then sow rape in drills about 28 inches apart and give two cultivations through the summer. The rape soon covers the drills and smothers out any weeds which might have escaped the cultivator. The rape makes excellent fall pasture for stockers and sheep.

Feeding Horses.

What is the proper time to feed a horse Some feed oats then hay, then afterwards water them. Others water first, give a little hay and then feed oats after the horse has fed a while. Should a horse be given oats as soon as it is brought in off the grass in the morning?

Ans.—Horsemen have different methods of feeding their animals with apparent The fact remains, however, success. that when they adopt a system they adhere to it regularly. We prefer giving a horse a drink and then allowing it to feed on hay for some time before feeding the oats. A horse requires a drink when it comes in from the field. If it is fed oats and then hay there is a chance that the oats will not be as fully digested as if the hay were fed first. It must be remembered that a horse's stomach is comparatively small and some claim that when oats are fed first that the hay will crowd them out of the stomach before they are digested. Unless we were going to use the horse immediately we would prefer leaving it a while before feeding oats after being brought off pasture.

The New HIP-ROOF adds Another Advantage to the

The TORONTO Silo, with its airtight, heat-retaining walls of 2" Spruce and its tight-fitting doors, has always made an exceptionnally high quality Ensilage.

QUALITY and QUANTITY

With the new Hip Roof it will now make an exceptional quantity as well! That's because the hip makes it possible to tramp the ensileage thoroughly right up to the eaves, and so put in several tons extra.

We ship the Toronto Silo ready to go up with the least possible amount of work on the job. Its first cost is moderate, and it saves money every year by making "more and better ensilage".

The TORONTO Pneumatic Ensilage Cutter

driven by a TORONTO Gasoline Engine, is the hardiest, most satisfactory rig you can use for filling this or any other silo.

Write for our Booklet, "Toronto Ensilage Equipment". It will tell you about all the fine points of both Silo and Ensilage Cutter.

We also manufacture Windmills, Pumps, Stable Equipment, etc.



Home Grinding Certainly Pays with the New Toronto Grinder

Our new "TORONTO Special" makes home grinding as simple and practical as running the fanning mill or pulping roots. Special "crackers" inside the grinding plates make it possible to grind the meal much finer, without extra power. All unnecessary parts have been eliminated, and vibration greatly reduced.

Write for Booklet describing this and other TORONTO Grinders.

Ontario Wind Engine and Pump Co. Limited Dept. "F' TORONTO and MONTREAL



Flock established from the best flocks in England. Our initial importation was among the first in 1881. Having quit the show-ring, we now make a specialty of breeding animals. Special attention to flock headers. They will give a good account of themselves in the show-ring Offering for the present season:—120 yearling rams; a few two-year-olds; 80 superior yearling ewes. A nice lot of ram and ewe lambs coming on. HENRY ARKELL & SON, R. R. No. 2, (Tel. 355r 2 Guelph,) GUELPH, ONT., CAN.

MAPLE SHADE SHROPSHIRES

My Minton ram is proved by his first crop of lambs to be the best sire used on this flock during the past 20 years. Orders for ram lambs are already being received. If you really want a good one, drop a line or have a look. NO SHEARLINGS. Will. A. Dryden, Brooklin, Ontario Co., Ontario



ELMHURST LARGE ENGLISH BERKSHIRES From our recent importation of sows, together with the stock boar, Suddon Touredot, we can supply select breeding stock, all ages. Satisfaction and safe delivery guaranteed. H. M. VANDERLIP, Breeder and Importer, R. R. 1, Brantford, Ont. Langford Station on Brantford and Hamilton Railway.

OAK LODGE YORKSHIRE HOGS

We have a large selection of extra-good boars and sows of different ages. We are selling at prices that make it attractive for the purchaser. Write for what you want. J. E. Brethour and Nephews.

ENGLSH LARGE BLACK PIGS

We have for sale at present some young pigs of a breed new to Canada but standardised and very popular in England, from our pure-bred imported LARGE BLACKS. Stock excellent for crossing with other breeds. Their English reputation is that they grow large and fast. Also for sale, pure bred English Berkshires.

Lynnore Stock Farm, F. Wallace Cockshutt, Brantford, Ont. bred English Berkshires.



Berkshires for many years have won the leading prizes at Toronto, London and Guelph. High cleres and Sallys, the best strain of the breed, both sexes, any age. Adam Thomson, R. R. No. 1, Stationed, Ont. Shakespeare Station, G.T.R.

NDED 1866

ent, etc.

ays

ning the

crackers" grind the

vibration

ited

ENCE

IRES
ock during the good one, drop
Co., Ontario
SHIRES

guaranteed. antford, Ont

g at prices that

ford, Ontarie.

andardized and ellent for cross-o for sale, pure-trord, Ont.

1, Stratford, on, G.T.R.

GS

er

Costs No More Than a "Span

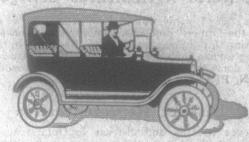


It seems almost impossible, but it is true that you can get a handsome, comfortable, speedy 5-passenger Ford motor car for no more than it would cost you for a span of good driving horses, a carriage and harness.

The initial cost of a Ford car is so small that every progressive farmer can readily purchase one.

> And who wouldn't rather motor to town, to church, to the railway station, to the neighbor's, than drive? - especially when it is three times as fast to motor, more comfortable and less expensive.

> The low cost of running the Ford makes motoring possible for the masses, where it was formerly a rich man's luxury. It makes motoring a matter of good business, especially for those whose time is valuable. And with labor so scarce no one needs the time-saving Ford so much as the busy farmer!



Touring - - \$495 Runabout - \$475

F.O.B. FORD, ONT.

Ford Motor Company of Canada, Limited

FORD - -ONTARIO.

34

BEEKEEPER'S

HIVES . FRAMES THE TILLSON COMPANY, LTD. TILLSONBURG, ONT.



Concrete Machinery
for Farm Use
This latest model Hand
Miser pays for itself
in 7 days. Write for
Special Offer. Crushers,
Brick, Block, Tile Machines, Power Misers,
etc. New and secondhand Gas Engines,
Wettlauffer Bros., Ltd.
178A Spadina Ave.
Toronto, Ont.

NORTHERN ONTARIO

Millions of acres of virgin soil, obtainable at 50c. an acre in some districts—in others, free—are calling for cultivation.

Thousands of farmers have responded to the call of this fertile country and are being made comfortable and rich. Here, right at the door of Old Ontario a home awaits you. For full information as to terms, regulations and settlers' rates, write to:-

H. A. MACDONELL, Director of Colonization, Parliament Buildings, Toronto, Ont. Hon. G. H. Ferguson, Minister of Lands, Forests and Mines

USE WINDSOR BRAND CHLORIDE OF LIME

for cleansing milking machinery. THE CANADIAN SALT CO., LIMITED, Windsor, Ontario. When Building-specify

Smooth, Hard, Clean-Cut. Write for booklet. MILTON PRESSED BRICK COMPANY Milton, Ontario



LAME HORSES PUT BACK TO WORK QUICK

TRY Kendall's Spavin Cure. It has saved a great many horses—has put them back to work even after they had been given up. Over 35 years of success has proved the merit of

Spavin Cure

HUNTSVILLE, ONT., March oth, 1916.

I have used a good many bottles of Kendall's Spavin Cure for sprains and lameness and I do not think it has an equal, especially in stubborn cases. Kindly send me a copy of your Treatise on the Horse.

Sold by druggists everywhere. \$1.00 a bottle, 6 bottles for \$5.00. Get a copy of "A Treatise on the Horse" from your druggist with

Dr. B. J. Kendall Company, Enosburg Falls, 114 Vermont

LIFT YOUR CORNS OFF WITH FINGERS

Tells How to Loosen a Tender Corn or Callus so it Lifts Out Without Pain.

A noted Cincinnati chemist discovered new ether compound and called it Freezone, and it now can be had in tiny bottles as here shown for a few

cents from any drug store. You simply apply a few drops of Freezone upon a tender corn or painful callus and instantly the soreness disappears, then shortly you will find the corn or callus so loose that you can just lift it off with the fingers.

No pain, not a bit of soreness, either when applying Freezone or afterwards, and it doesn't even irritate the skin.

Hard corns, soft corns, or corns between the toes, also toughened calluses, just shrivel up and lift off so easy. It is wonderful! Seems magical! It works like a charm! Your druggist has F eezone. Ask him!

For Fall Wheat and Seeding Down

High Grade-Write for Prices

THE W. A. FREEMAN CO.

LIMITED

HAMILTON

CANADA



HOP MALT EXTRACT Made only of pure hops and malt. Makes real beer with the good old flavor that is appetizing and health building. Conforms to Temperance Act.
Small Tins \$1.00; Large \$1.50
Prepaid. Full directions with each in.

Agents Wanted.
DEPT. A

Hop Mait Co., Beamsville, Ont.

FOR REINFORCING BRIDGES AND BARN DRIVEWAYS CUT ANY LENGTH

JNO. J. GARTSHORE 58 Front Street West

150CC

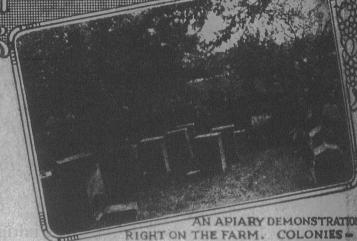
Why not consult The Ontario Department of Agriculture About your Farm problems?



ENCOURAGES FINE PLOWING.

SCENE AT PROVINCIAL PLOWING MATCH

THE ONTARIO DEPARTMENT OF AGRICULTURE invites you to make the fullest use of its staff of farm experts. Each branch listed below wishes to co-operate with you. Write directly to each official, addressing him, unless otherwise directed, at Department of Agriculture, Parliament Buildings, Toronto. Your request will receive prompt attention.



AN APIARY DEMONSTRATION RIGHT ON THE FARM. COLONIES INSPECTED FOR DISEASE AND BEST METHODS EXPLAINED

Ontario Live Stock Branch

Full information is given on all phases of the live-stock industry, live-stock association memberships, co-operative shipments of live stock to Eastern and Western Canada, grading and marketing of wool, stallions in use in Ontario, and the stallion law and requirements for inspection and enrolment.

Assistance is also given to sales of live stock and to local poultry associations.

As Secretary of the Sheep Breeders' and Swine Breeders' Associations, Ontario Horse Breeders' Association, Ontario Stallion Enrolment Board and Ontario Provincial Winter Fair, the Director will give full information about any of these. WRITE DIRECTOR R. W. WADE.

Ontario Fruit Branch

For the fruit grower this branch has valuable information. If necessary a personal visit will be made to your farm. Expert advice on planting of orchards, vine-yards and small fruits—the best districts, types of soil, varieties and the most approved methods, cultivation, cover crops, thinning; packing in boxes and barrels; any question, in short, relating to practical fruit growing in Ontario. WRITE DIRECTOR P. W. HODGETTS TOR P. W. HODGETTS.

Three important divisions are also under the supervision of the director.

(1) Experimental work in fruit and vegetable growing. Information regarding value of varieties, canning fruits and vegetables; irrigation of fruits and vegetables; breeding new varieties of fruits and seed growing. WRITE E. F. PALMER, DIRECTOR HORTICULTURAL EXPERIMENT STATION, VINELAND, ON-TARIO.

(2) Orchard Diseases and Pests. Nurseries and orchards are inspected; information given regarding the identification of, and treatment for, orchard pests. WRITE L. CAESAR, Provincial Entomologist, O. A. College, Guelph, Ontario.

(3) Beekeeping. Regarding any phase write MORELY PETTIT, Provincial

The Vegetable Division

For information concerning vegetable growing both in field and under glass; results of experimental work on a field scale, and the practical use and value of all new appliances, materials and methods, and the control of insect pests and fungous diseases of vegetables, write S. C. JOHNSTON, VEGETABLE SPECIALIST.

Ontario Agricultural Societies Branches

The Superintendent directs the work of agricultural, horticultural and vegetable growers' societies, including the payment of grants provided for the purpose; has charge of the field competitions and exhibits of prize-winning grain, sheaves and vegetables from these; appoints judges, upon request, for competitions and fall fairs; arranges for the conventions of the Ontario Association of Fairs and Exhibitions and of the Ontario Horticultural Association and acts as secretary of the Ontario Vegetable Growers' Association and of the Ontario Plowmen's Association. Questions in any way related to any of these associations will be answered by SUPERINTENDENT J. LOCKIE WILSON.

Ontario Institutes Branch

Gives information and assistance to Ontario Farmers as follows: (1) The organization and management of boards of agriculture, farmers' clubs, Women's Institutes, Patriotic Work, Girls' Clubs, etc.; short courses in live stock and seed judging, and demonstration - lecture courses in foods and cooking, home nursing and sewing. (2) Supplies speakers for

agricultural meetings of associations and for courses as listed above. (3) Supplies mil record forms and general dairy information. (4) Upon request will supply to agricultural speakers slides (for projector) of weeds, live stock, poultry and poultry houses and charts for illustrating lectures.

For complete information concerning any of the above or upon any phase of the rk of Boards of Agriculture or Women's Institutes write SUPERINTENDENT GEORGE A. PUTNAM.

Ontario Co-Operation and Markets Branch

"We can produce crops with the best" say many farmers; "but we can't sell to advantage." This branch is maintained to aid farmers in the selling of their produce and to encourage active, practical co-operation of every nature, such as the organiza-tion and business management of co-operative societies—difficulties to be overcome securing a proper manager, how to incorporate and to raise funds; lists of farmers dibbs women's institutes, wholesale produce houses and other prospective customers; how best to ship live stock; bookkeeping systems for co-operative associations. Valuable information is also available regarding the grading, packing and selling of Ontario farm products. Especial assistance is offered in the organization and management of new or old co-operative associations either by letter or by personal visit. Write DIRECTOR F. C. HART.

The Ontario Agricultural College

At this Institution a staff of highly trained farm experts are in close touch with the farmers' affairs and the farmers' problems. Information upon practically every agricultural subject affecting Ontario may be secured. Besides this, the College offers the young man and young woman from the farm a practical and efficient education in agricultural science and domestic science respectively, at very small cost. Write DR. G. C. CREELMAN, PRESIDENT.

District Representatives

In forty-seven counties and districts in Ontario agricultural college graduates are placed who bring to the farmer's very door the latest in science as discovered by agricultural experts and the best in practice as applied by successful farmers. Write or call by telephone the District Representative in your county. For general information regarding the work write C. F. BAILEY, ASSISTANT DEPUTY MINISTER.

Ontario Bulletin Service

Each year new bulletins and pamphlets are added to an already long list. They are compiled by experts and give authoritative information upon different phases of the farmer's business. They are free and may be secured upon to quest. Write for a list of those published and select the ones which will be most useful to you. For any bulleting prepared by any branch or division write THE ONTARIO DEPARTMENT OF AGRICULTURE, PARLIAMENT BUILDINGS, TORONTO.

You May Save Dollars

by securing this information. So don't trust to memory Preserve this page and use it as a yearly calendar. The you will always know exactly whom you can get the information from which you want—just when you want. When writing please mention this advertisement and gives complete information regarding your problem as post It will insure a prompt and satisfactory reply.

Ontario Department of Agriculture PARLIAMENT BUILDINGS, TORONTO

SIR WM. H. HEARST DR. G. C. CREELMAN Minister of Agriculture Commissioner of Agriculture



ONTARIO

PRACTICE OF PRUNING

Each branch wishes to co-operate with You

VOL. LII.

desiral perhap materi it is ju to orde

becaus twice :

> can tr other watch

LOND TOR