# Rural Home

n Canada Number

Spot in Southern Manitoba

ONE DOLLAR A YEAR

BLIS

## **Another Progressive Year** for the farmers' company

If there is a single doubt lurking in any farmer's mind about the value of cooperation, a casual reading of the history of The Grain Growers' Grain Co., Limited, for the past eleven years will dispel the last vestige of distrust.

The few figures given to the left show that this year is proving a successful one.

The company buys grain on track, or by the single load at our country elevators, or handles cars on consignment.

The Cooperative Departments are organized to give a complete service on implements, building materials, and general supplies, including:

Plows	Grain Grinders	Coal
Harrows	Sleighs	Flour
Packers	Wagons	Apples
Drills	Buggies	Twine
Cultivators	Harness	Fencing
Manure Spreaders	<b>Cream Separators</b>	Belting
<b>Corn Machinery</b>	Incubators	Oils
Hay Rakes	Stable Equipment	Washing Machines
Mowers	Lumber	Sewing Machines
<b>Gasoline Engines</b>	Cement	Etc., Etc.

These are supplied to farmers for cash at prices very close to manufacturers' costs.

The Livestock Department handle cattle, sheep and hogs on commission, and each Elevator Agent of the company acts as shipping agent for the farmers who wish to club together in making cooperative shipments from his district.

Cooperation, whether in Western Canada or in the East, is simply a matter of getting together-burying little differences and jealousies and coming out strongly for bigger, better things. If two horses can't pull a plow, you put on two or three more, and their combined effort gives you what you want and how you want it. With all farmers pulling for better conditions, the influence that will be brought to bear on their problems, will eventually eliminate those things which are blocking their progress. Cooperation is here to stay, so let every farmer in Canada apply its principles to his daily work and life. What the future holds for all farmers and their companies is limited only by the farmers' own grasp of the meaning of cooperation.





August 16, 1917.

Trade increase

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#### Its Influ

HE greatest Canada is tario, where in public affairs to have more th a strong stateme ever, things are we have only al tario Legislature 46 farmers in th against only thi long to other ca the proportion Legislature is large as in Sa farmers are also factor in the Me

There is a read west much the of the population open country. ] everybody, there cess of the west the success of the effort, therefore. agriculture. In about half the the cities, and cities are to b county, the imp ture is more ea and the influence readily magnified

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So important : wielded by the f now becoming an national legislatio parties of the day in Winnipeg for attitude on nation sured that this o not all of the Far

## FIGURES TALK

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Following is a condensed state-ment of the Company's business and gives some idea of the growth since the Company opened for busi-ness on Sept. 'st, 1916. The fiscal year runs from Sept. 1st to Aug. 31st of each year

SHARES ALLOTTED. 1906, 1,000; 1915, 47,965; 1916, 57,605; to June 30, 1917, 67,444. CAPITAL SUBSCRIBED.

1906. \$25,000; 1915. \$1,199,400; 1916, \$1,440,160; to June 30, 1917. over \$1,650,000

CAPITAL PAID-UP.

1906. \$5,000; 1915, \$867,422.00; 1916, \$1,073,179.95; to June 30, 1917, over \$1,300,000.00.

PROFITS.

June 30, 1907, first profit, \$790; 1915, \$226,963.08; 1916, \$572,804.33 to June 30, 1917 (not yet arrived at). In addition to the paid-up capital the company has in reserves and undivided profits over \$700,000.00. On June 30th of this year the shareholders numbered over 20,000.



Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land. - Lord Chatham

VOL. XXXVI

#### TORONTO, ONT., AUGUST 16, 1917

#### No 33

## The Farmers' Movement in Western Canada

Its Influence in Provincial and National Affairs-Things It has Accomplished-Reforms It Hopes to Effect -Leaders in the Movement.

HE greatest force in public life in western Canada is the farmers' movement. In Ontario, where our farmers have little to say

in public affairs, although they are beginning to have more than they used to, this may seem a strong statement to make. In the west, however, things are different. Whereas in Ontario we have only about twenty farmers in the Ontario Legislature with its 112 members, there are 46 farmers in the Saskatchewan Legislature as

against only thirteen men who be long to other callings. In Alberta the proportion of farmers in the Legislature is almost equally as large as in Saskatchewan, while farmers are also a most influential factor in the Manitoba Legislature.

There is a reason for this. In the west much the greater proportion of the population still lives in the open country. It is apparent to everybody, therefore, that the success of the west is dependent upon the success of the farmer, and every effort, therefore, is made to assist agriculture. In the east, where about half the population lives in the cities, and where towns and cities are to be found in every county, the importance of agriculture is more easily lost sight of, and the influence of city life more readily magnified.

But there is another reason for the success western farmers have met with in moulding and directing public affairs. It is found in the fact that for a considerable number of years they have been thorighly organized in their provincial farmers associations and farmers' companies, and through them again in the Canadian Council of Agriculture. So powerful are these farmers' organizations, with their 50,000 members, that none of the provincial governments in the three prairie provinces would think of introducing any important legislation without first

consulting leaders in the farmers' movement. So important and powerful is the influence

wielded by the farmers of the west that it is now becoming an important factor in influencing national legislation. One of the leading political parties of the day will shortly hold a convention. in Winnipeg for the purpose of determining its attitude on national issues. It is practically assured that this convention will adopt most, if not all of the Farmers' National Platform as en-

#### H. Bronson Cowan, Editor-in-Chief of Farm and Dairy.

dorsed by the farmers' organizations a few months ago. Thus it will be seen that the farmers' movement is becoming national in its scope and influence. If other evidence is needed it is furnished by the fact that it was the support of the farmers' organizations that enabled the western provinces to be the first to adopt prohibition and



#### Leaders in the Western Farmers Movement.

Reading from left to right above are J. B. Musselman, Secretary, the Saskatchowan Frain Growers' Association; J. A. Maharr, President, Saskatchowan Grain Growers' Bolow are H. W. Work McKennes, Becretary, Canadian Connel of Agricultures Bolow are H. W. Work McKennes, Becretary, Canadian Connel of Agricultures fian Council of Agriculture; R. C. Henders, Fresident are of Alberta and the Cana-Sasociation, and P. P. Woodbridge, Sceretery of the United Parmers of Alberta these are only a few of the many strong men whom Western farmers have chosen from their ranks to lead them.

woman suffrage, and it was due to the agitation of the western farmers that the Dominion Government was induced to commence the construction of the Hudson's Bay Railroad in order that the prairie farmers might have another outlet for their wheat.

#### Start of the Movement.

Like many other great movements the farmers' movement traces back to a very humble beginning. It dates from a meeting held in Indian Head in December, 1901, and called by Hon. W.

R. Motherwell, now Minister of Agriculture for Saskatchewan, and Peter Dayman, of Abernethy, for the purpose of establishing some form of farmers' organization in order that they might more effectively combat the influences which at that time were oppressing them.

Seventeen years ago western Canada was a young country in every sense of the word. During the few years previous there had commenced the first big rush of immigration to the west.

Peoplo had flocked in from many countries. Many of them lived long distances apart. Like all settlers in a new country they were so busily occupied in breaking land, putting up houses and getting started that they had not much time to devote to matters of more general interest. This condition furnished an excellent opportunity for the business interests to take advantage of them, and as might be expected they did not neglect the opportunity. Private companies controlled the elevators in which the farmers stored their grain and charged excessive prices for handling it. The railway companies in many instances demanded exorbitant rates for handling the farmers' supplies and crops. Implement dealers were willing to sell implements on time, but demanded conditions of payment which placed many farmers at their mercy. Loan companies were ready to advance money, but insisted on obtaining rates of interest, that few of the settlers could safely agree to pay. Thus it was not to be wondered at that many of the farmers. in spite of the natural advantages of the country, found it impossible to make headway, although other people were making fortunes out of the wealth they created.

At this first farmers' meeting it was decided that local organizations

of farmers should be established throughout the country at all points where an interest could be created, and that these locals should be asked to send delegates to a larger convention to be held later where a more permanent and representative form of organization could be established. Within two months 38 locals had been established. These were represented at the convention, which was also held in Indian Head. At that convention the Territorial Grain Growers'

(Continued on page 12.)

## Corn. Silos and Cows for the Manitoba Farmer

An Opinion Based on Experience .- W. J. Cummings of Glenlea Stock Farm.

T is but a few years since when the revenue from live stock in Western Canada was an insignificant amount when compared with the large returns from the grain crops, but conditions have changed in the last few years, and to-day there are sections in the Prairie Provinces where the live stock of the farm yields a very handsome income. In order to realize the rapid strides being made in the live stock in the Province of Manitoba alone, it is only necessary to give a few comparative figures during the past t a years.

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Year	251,572	Cattle	Sheep	Swine
1906		363,202	16,606	120,838
1911		407,611	37,227	192,386
1916		•665,686	89,475	261,774

These figures show only the starting point, as there are a large number of farms in Manitoba even at the present date, that devote very little, if any time, to the live stock branch of farming, but the-time is rapidly approaching when every farm will have to go into the raising of live stock, at least to a limited extent. This statement is made from the fact the grain yields per acre are yearly falling behind, and the quality of the sample has been yearly growing poorer like the yield. And again, a few crop failures soon cause the average farmer to realize it does not pay to have "all his eggs in one basket."

There is no chance for argument on the fertility of the soil, or the ability of the country to produce the equal, if not more, than it has ever done in the past, but to bring about this improvement, there must be a change in the present methods of farming which will necessitate getting away from the one crop plan, which has existed so long in the West. This will bring about rotation, and in order to have rotation and do it successfully, we must be in a position to realize the full value out of the returns of these rotation crops, which can be done most successfully through the introduction of stock on the farm. Every farmer appreciates these conditions, and you hear but one argument-he cannot afford to buy the stock, as he has not the capital with which to purchase them. Here is where it is realized what a regrettable feature it is that the dairy cow is not better understood by the average western farmer, as a good dairy cow would pay for herself in a short time, and make the start for the farmer of a good herd, giving a cash return every day in the year. This is where the dairy cow excels the beef type for the average farmer, because he does not have to wait to sell either her or her offspring to get returns, and it is the same dairy cow that will give returns to the fullest extent of the feeding value of the rotation crop.

There are many crops used in the rotation sys-

tem, but the one most common is the corn crop, possibly because it will prove equal to a summer fallow, if not better, on account of the continuous cultivation required to get the best results from the crop, and at the same time give a yield equal to the average grain crop. While the climatic conditions of Western Canada are not suitable to many of the varieties of corn grown elsewhere, there is little doubt it will be but a few years until a variety suitable to this climate will be introduced, as within the past few years corn has been matured in some parts of Manitoba to a limited extent. In the meantime, as we have not arrived at that point, the question is, what can be done to obtain the full feeding value of the corn crop? The answer is the silo.

The Argument for the Silo.

The question of maturing the corn crop need not worry the western farmer, as in districts

#### where they have matured corn for years, they have gone very extensively into silos in recent

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years, and to-day a certain per cent. of their corn crop is sown expressly for the silage, as they realize they are able to obtain as much, if not more, out of the crop in this manner than if it were allowed to mature and be sold for grain. In no other way can so large a percentage of the feed value of the corn crop be secured as by the use of the silo. Every pound of the crop that grows above ground is available for feed in the most tempting and digestible condition if cured in a silo, and it can be kept so for an almost unlimited length of time, if the silo is properly constructed. After many tests it has been demonstrated that corn is at its highest feeding value when it is ready for the silo, and during the period of fermentation it only loses from eight to ten per cent, of its original feeding value, which is very small when taking into consideration that corn in the crib will show almost a 20 per cent. shrinkage in the year, and the stalk in the field is almost a total loss. (Continued on page 8.)

## The Progress of Dairying in Manitoba

The Government Plays an Important Part-By L. A. Gibson, Dairy Commissioner

F the dairy industry

of a province is to

success in its growth

and development, an in-

crease in output is not

enough in itself. It

must be accompanied

by a steady improve-

ment in quality of pro-

duct. In our work in

Manitoba we aim to

keep this two-fold ob-

ject in view, and to im-

press its importance

upon all connected in

any way with creamery

work, whether as pat-

meet with permanent



L. A. Gibson Dairy Commissioner for Manitoba.

rons, officers or makers.

To-day there are forty creameries in operation in the Province of Manitoba. During the year 1916, 6,574,510 lbs. of creamery butter was made, as compared with less than half that amount in 1912. The total value of dairy products during 1916 amounted to \$4,483,614, a 100 per cent, increase

An increase of more than 100 per cent. in output in four years, and a steady proportionate increase during the intervening periods, suggests immense possibilities ahead of the creamery industry in Manitoba. Generally speaking the present season is proving to be a most satisfactory and successful one to the dairymen of

this province. Although the spring was late and backward a substantial increase a output of creamery butter in the province assured. especially in Northern Manitoba.

The dairy staff of the Department of Agriculture includes a dalry commissioner, two creamery inspectors, one cheese factory inspector and a dairy produce grader, together with a chemist and clerical staff. Each member of the staff has had a thorough practical dairy school training in addition to wide experience in factory work, teaching and instruction work. The following are the main features to which we attribute the improvement which has taken place in the quality of Manitoba creamery butter:

1. Grading of cream and paying for it on the basis of quality. This is the common practice amongst our creameries. Cream grading has demonstrated the fact that payment for quality is the means of securing quality.

2. Instruction work and butter grading. Cream and butter grading have greatly enhanced the value of the instructors, and created an increased demand for their services. The inspectors and dairy produce grader cooperate closely, and from week to week they visit the creameries where their services are most urgently needed. Each creamery reports to the produce grader on every shipment of butter made, and the produce grader in turn reports to the creamery upon each churning in the shipment, suggesting where improvements can be made in quality. Practically

(Continued on page 8.)



A view of Gienlea Stock Farm in Manitoba, where Da irying is the mainstay and corn and silos are popular.

August 1



Where Whea

N<sup>ATURE</sup> could e the Canadian of forest an have stepped shins on to t logged and many a back grandchildren nature ever has the satis have helped land was left been satisfied the ordinary and the adva neutralized b And the m tion of know served for th Saskatchewar 000.000 acres of settlement gether with a taking, have let no one b land left in homestead. been characte themselves of syndicates ha possession of public would tions, which it that a bonus able-bodied m withdraw fron in each of th emption right in getting wh ate control. acres all alie statistical cro 13,000,000 acre other 10.000.00 and new brea acres and leav ed to producti

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The product broken and un lowing official son was an en

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Where Wheat is the Main Crop of the Farm extensive Buildings are not needed and are expensive to build. Stack and stook threshing, therefore, are Popular on the Prairies.

## Saskatchewan---Where Wheat is King

And the Mainstay of the Saskatchewan Farmer.-By R. D. Colquette, B.S.A.

TATURE pays little heed to man's convenience in making her arrangements. What could equal her contempt for him in hiding the Canadian prairies behind a 2,000 mile rampart of forest and rock? If the old pioneers could have stepped from the decks of their emigrant ships on to those broad plains, already chopped, logged and stoned, it would have saved them many a backache. It would also have saved their grandchildren a lumber and fuel problem. But if nature ever thinks in terms of economics she has the satisfaction of knowing that it might not have helped matters so much after all. What land was left after the dukes and seigneurs had been satisfied would have been gobbled up by the ordinary garden variety of land speculator. and the advantage of location would have been neutralized by their exactions.

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And the modern landseeker has the satisfaction of knowing that the prairies have been reserved for the pioneer of his day. Out here in Saskatchewan, for example, there are some 57.-000,000 acres of arable land within the range of settlement. All of this 57,000,000 acres, together with a lot more that was not worth the taking, have been alienated from the crown. For let no one be deceived, there is no homestead land loft in Saskatchewan that it is wise to homestead. Canadian governments have always been characterized by a passion to dispossess themselves of land. Railway companies and land syndicates have shown equal eagerness to gain possession of it. They got all that an outraged public would stand for. The homestead regulations, which in a large percentage of cases meant that a bonus of 160 acres of land was given to able-bodied men on condition that they would withdraw from productive industry for six months in each of three years; together with the preemption rights granted in 1908, were successful in getting what was left into private or corporate control. Hence it is that of the 57,000,000 acres all alienated, of good land in the nine statistical crop districts of the province only 13,000,000 acres bore crop in 1916. Allowing another 10,000,000 acres for summer fallow, pasture and new breaking makes a total of 23,000,000 acres and leaves some 34,000,000 still to be turned to productive use.

#### Unlimited Froductive Capacity.

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The productive capacity of Saskatchewan soil, broken and unbroken, may be judged by the following official figures of the 1915 crop. The season was an exceptionally favorable one. Prices, though good, were not equal to those obtained in 1916.

#### Acreage, Yield and Value of Saskatchewan's 1915 Crop.

	Acreage	. Yield	Yield	Price	Value
Wheat Oats Barley Flax	6,884,874 2,846,949 973,299 539,674	173,728,775 130,910,048 9,043,813 6,060,499	acre 25.2 45.9 83.2 11.2	\$ .83% .80 .44% 1.60	producer \$145,059,352 89,273,014 4,024,496 9,090,748

In 1916 the yields were lower, principally on account of the widespread ravages of rust and the phenomenally large hall losses. But since farmers are more concerned with dollars than with



A Settler on His Way to the Wheat Kingdom.

bushels the results were even more satisfactory than those of the previous year.

#### Acreage, Yield and Value of Saskatchewan's 1916 Crop.

	Acreage	Yield	Yleld per	Price	Value to
Wheat Oats Barley Flax	8,532,700 3,543,600 357,400 519,700	121,864,454 138,882,716 9,469,426 5,452,549	acre 14.2 39.1 · 26.5 10.4	\$1.52 .50 .724 2.00	producer \$160,861,080 60,441,358 6.845,334 10,965,098

These tables do not include hay, potatoes and roots, which netted several millions to the farmer each year. In interpreting the figures, however, if should always be kept in mind that substantial reduction must be made to allow for feed and seed.

#### Phenomenal Yields.

The favorable season of 1915, combined with good farming methods brought out tremendous yields in many cases, on wheat field of 80 acres and another of 11 acres averaged 61 bushels to the acre. Many cases were reported and sown to 60 bushel yields, one of them for a field of 610 acres which threahed 30,600 bushels. Of dats two cases of yields averaging 116 bushels an acre were reported. One hundred bushel yields were common in many districts.

The quality of Saskatchewan's grain has been demonstrated at world wide exhibitions and farming congresses. The prince of the world's wheat growers is Scager Wheeler, who farms some 40 miles north of Saskatoon. On three different occasions he has won premier honors on hard spring wheat in competition with the world. Paul Gerlach, who also farms near Saskatoon, has won in competition with the world of wheat, while W. S. Simpson, of Swift Current, has secured more world's prizes in various

classes than any other man on the continent. Altogether about 50 first prizes at world's exhibitions have been captured by farmers of the province.

#### Wheat is King.

Although oats, barley and flax are large and important crops in Saskatchewan, wheat easily maintains its supremacy as the king of all her agricultural products. Roughly, twothirds of the acreage

devoted to crops is normally under wheat. Making allowance for the large amount of oats used for feeding horses on the farms it is safe to say that three-quarters of the Saskatchewan farmer's income comes from this great cereal. And it will be so for many years to come. There are other considerations besides the adaptability of the province for wheat growing that lead to this conclusion. Under normal market conditions oats are too bulky and cheap for the long haul to the world's markets. The market for flax is limited and easily glutted as many Saskatchewan farmers know from experience. Barley is not a favorite crop with farmers in any province. Wheat fulfils the requirements of a permanent cereal crop better than any of them. There is always a market, sometimes an unsatisfactory one, but it is always there. The crop lends itself to the conditions of the export trade better than the others. On the whole it is the most profitable to grow. In addition it has the preference of the farmer. Wheat growing has become a habit with him. He will not break it easily. Wheat (Continued on page 9.)

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A very respectable Barn is that which shelters the Grain Crop and Animals on Glengarry Stock Farm, near New Liskeard, in New Ontario.

## What New Ontario Has To Offer the Prospective Settler It is a Land of Promise Whose Promises are Made Good

S. R. N. Hodgins, Associate Editor, Farm & Dairy

N the clay belt of Northern Ontario is a vast agricultural country in the making. And because it is yet in the making, it is a land of golden opportunities. For the man who is desirous of getting a start in the business of farming as well as for the experienced agriculturist who wants more scope, Northern Ontario sounds her call. Should the prospective settler's financial capital be limited, he will find in this great new country a chance to exchange labor for land, and that land of the finest quality obtainable. Should he be untrammelled financially, he will find here unexcelled opportunities and room for working out his ideals in farming. To all who are willing to invest some muscle, and who are not easily discouraged by the hardships which must always precede conveniences in a new country, this great land will pay within a reasonable time rich dividends in the form of broad acres and well filled barns.

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#### A Land of Vast Distances.

The first thing that strikes the visitor to Northern Ontario is its vastness. We of Old Ontario, cannot realize the tremendous areas of tillable land which await the plow in the great clay belt which crosses our province north of the Great Lakes. It is only by referring to the Western prairies, of which this strip is a continuation, albeit wooded, that one can imagine such a huge block of farming land as is included in the 16,-000,000 acres which await settlement in Northern Ontario. One must travel through this country to get even a faint idea of its extent.

On leaving Haileybury on the line of the T. N. O., one begins to come out into the open. For several hours he has been travelling through the rough country which has proved itself to be so rich in minerals, and is now coming out into the country which will in the future prove to be even richer in agricultural wealth.

From Haileybury to Cochrane the farming land is divided into huge districts by well defined rocky strips. Here may be found larger areas of level arable land than may be seen in any district which I have travelled in Old Ontario. It is

in these districts that the first agricultural settlements were formed. Some of the southernmost, the chief example being the New Liskeard district, are as well built up and tilled as many of our foremost farming sections in Old Ontario. There are yet, however, along this line, huge districts which have never been opened up by settlers. As the terrific forest fires of last year, however, passed through this strip of country, making the land easily cleared, settlers will doubtless realize their good fortune and flock into these newly burned districts.



The Settler's First Home. The danger from forest fires in the wooded districts makes it advisable to build inexpensive buildings on the new-homestead.

West from Cochrane along the line of the Grand Trunk Pacific, twelve townships have been thrown open for settlement. These extend as far west as Hearst, which is 130 miles west of Cochrane. Along this entire strip the land is practically unbroken, except where it is cut by the rivers which flow northward into James Bay. This is indeed a goodly land, as level as the prairies, wooded with balsam and spruce, and clear of stones practically throughout its entire



The Proof of the Pudding-Harvesting a three-ton clo ver crop in the Monteith district, Northern Ontario.

extent. The same kind of country may be found on the line of the Algoma Central Railway for 20 or 30 miles south of Hearst, and this level clay plain stretches north practically to James Bay. While this does not cover the extent of the clay belt of Northern Ontario, it embraces the land that is at present open for settlement and covers the territory over which I travelled on a recent survey.

#### The Soil.

Throughout the whole of the district covered, both along the lines of the T. N. O. from Halleybury to Cochrane and along the G. T. P., to Hearst, I found the soil to be of undoubted richness. The typical soil of this belt has for its foundation at a depth of eight or ten feet, gravel or sand, both water bearing. Above this is laid a strata of clay, which may run to seven or eight feet in depth and which gives to this belt its name. This clay in turn is laid over with black muck running from four to 18 inches, in depth, and it is this, coupled with the clay, which gives to Northern Ontario its capacity for tremendous yields of hay, clovers and roots.

The settler upon coming into this country to locate is not faced with the same problems which confronted our pioneer forefathers. It is an entirely different proposition entering these woods and clearing up a farm, to that which confronted the settler who had to hew out for himself a little farm from a hardwood bush. Until this land is opened up, it is all more or less swampy. That is, it is very level and more or less water remains in the soil all the year. For this reason the roots of the trees do not grow deeply. The character of the trees themselves is different. The unburned forests are found to consist of straight spruce and balsam with some poplar on the knolls.

In choosing a farm site in this country, the settler has two options at his disposal. In either case his cleared land will not cost him much. If he is desirous of getting into actual farming in as short-a time as possible, he will find in such districts as that around Matheson, huge areas which have been burnt over several times. In these districts the work of clearing up the land for plowing, is almost negligible. Farmers who have cleared up this land and put it into cultivation, estimate the cost of getting it ready for the plow at sums varying from two to ten dollars an acre. In many of these districts, one handy man is able to keep the ground cleared as fast as a plow can follow him.

#### The Cost of Clearing.

For the young man, however, who is not anxious to get into the raising of crops immediately and who wishes to take advantage of the high prices that are being paid for pulp wood at present, there are vast areas of green wooded land awaiting his choice. To the uninitiated the (Continued on page 34.)

August 16, Dai

AIRY farm try which in souther ferent kinds o the irrigated L adapted in cer Alfalfa and cro farming. No o out soon comin

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"I believe th districts we have retary of the A vator Co., Limit irrigation was ago." Some ye of secretary of Mr. Fream con tion on behalf o trouble with the obtained from south of Lethbr the most attrac It is a regular g grown, as well



e Bow River.

## Dairy Farming on Western Irrigated Land

A New Type of Farming Being Developed in Southern Alberta

H. Bronson Cowan, Editor-in-Chief of Farm and Lairy.

AIRY farming on irrigated land is an industry which is making considerable headway in southern Alberta. In fact, numerous different kinds of farming are being conducted on the irrigated land, although it is especially well adapted in certain districts to the production of Alfalfa and crops which lend themselves to dairy farming. No one can visit southern Alberta without soon coming in contact with the large irrigated districts. The results that are being achieved prove considerable of a surprise to most easterners who very naturally are inclined to look upon it with a considerable degree of suspicion and doubt as to its being a desirable form of farming.

My first insight into what can be accomplished by means of irrigation was gained a few weeks ago, while on my way west on the main line of the Canadian Pacific Railway. For hours we had been travelling through an unattractive prairie section where the ground had been baked by the hot weather and lack of moisture and where the farms and ranches were few and far between. Some time after passing Medicine Hat a view was had of some crops which stood out in contrast to the almost barren country round about, and presently we passed a large stack of Alfalfa hay and noticed a sign posted conspicuously to show the public that it had been grown on irrigated land. It served to demonstrate that irrigation is capable of transforming a country not naturally well adapted to the production of general crops into a section where such crops can be grown with striking results. On arrival in Calgary I made some inquirles and was interested to find the extent to which this class of farming 's being conducted. The Best Section.

"I believe that the most successful irrigated districts we have," said Mr. E. J. Fream, the secretary of the Alberta Farmers' Cooperative Elevator Co., Limited, "is south of Lethbridge, where irrigation was first introduced some 20 years ago." Some years ago, while holding the office of secretary of the United Farmers of Alberta, Mr. Fream conducted an investigation of irrigation on behalf of some farmers who were having trouble with the C. P. R. over the land they had obtained from the company. "I visited a town south of Lethbridge," he said, "which I consider the most attractive spot we have in the west. It is a regular garden and the quantity of produce grown, as well as its quality was a surprise to me. I know that irrigation farming is proving successful in this district. I cannot speak with the same assurance in regard to the land east of Calgary, as it is a newer section, and I am not so well posted concerning it. Successful irrigation depends considerably on the quality of the soil. Soil not suitable to irrigation tends to hold the moisture and the best results can not be obtained. South of Lethbridge the land seems well suited to irrigation. Just what proportion of the land in the large irrigated districts east of Calgary is good, I am unable to say."

#### An Immense System.

Most easterners are under the impression that the greatest irrigation systems on the continent are in the western States, it comes as a good deal of a surprise, therefore, to find that the Canadian Pacific Railway Co., has developed in southern Alberta, the largest individual irrigation project on the continent. This company has under its control an area greater than the total irrigated area in either Colorado or California. To date about \$20,000,000 has been invested in the construction of the dams and canals that have made this system possible.

#### The Main Districts.

The main irrigated districts run for about 150 miles south-east of Calgary, along the main line of the Canadian Pacific Railway. They are situated between the Bow River on the south and the Red Deer River on the north. Surveys originally conducted by the Dominion Government showed that this district was admirably suited to irrigation. The soil was deep and fertile, easily cultivated, and for the most part without natural obstructions. The land lies in gentle slopes to the north-east, affording the natural flow necessary for irrigation, and providing for the easy disposal of surplus water. Sufficient water was available in the Bow River to make it certain that irrigation could be carried on for practically all time. The Bow River rises in the Rocky Mountains, where it is fed by the glaciers. Thus it is not dependent upon rain fall, in fact the hotter the season the greater is usually the flow of water.

The Canadian Pacific Rallway was interested in developing this great area. In its natural state it was not likely to produce much traffic for the lines of the company. If, however, it could be converted into an important crop-producing area, it would not only increase the value of the company's lands, but would also increase



#### Western Field Corn. Fodder crops can be grown to excellent advan-tage on the irrigated lands of Southern Alberta. A sample crop is here shown.

the business conducted over the company's lines through the greatly increased settlement that would be promoted. The situation was examined carefully, the best possible experts were engaged, and finally, when the company was fully convinced that the project was feasible it embarked upon the expenditure of the many millions of dollars in the construction of the system of irrigation, which is now transforming that part of the country.

#### Four Areas.

The main irrigated district east of Calgary is divided into three sections designated, respectively, western, central, and eastern. The central district is devoted entirely to dry farming, while the western and eastern are under irrigation. The Lethbridge district is in another district of the country, considerably south of Calgary. Roughly speaking the first three districts contain about 1,000,000 acres each, and the Lethbridge district about 150,000 acres. Not all of the land is suitable to irrigation, only that portion being irrigable which lies below the canal that carries the water. In the eastern section approximately

(Continued on page 8.)



Dairy Farming is being undertaken on an extensive scale in the irrigati n districts of Southern Alberta. These districts are supplied with water from high reservoirs such as the one shown above and created by the Bassano Dam, situated about 55 miles east of Cakary, on the Bow River. The purpose of the first state of the state of

#### Manitoba Farmer (Continued from page 4.)

Ensilage is not only a most satisfac-tory feed in the dairy during the winmonths, but it is equally as good during the summer months. One of the foremost questions in the

mind of every feeder in the northern country is that of succulence. The pasture season is short, and as most of the feeding is done during a period of the year when we have no pasture, it is absolutely necessary for us to prepare some succulent food. It is in undisputed fact that the spring pasture forces every cow to a heavier yield caused by the succulent feed. We know on pasture alone a cow will give a good yield of milk, but cut this grass, dry it carefully, so that the only is lost, and give this dried grass to the cow as her only feed and she will soon go dry. Why? Just because the grass has lost its succulence. It is not a hard matter to figure out this succulent food can be obtained for winter feeding, as it is known it may be obt.incd either from roots or ensilage, but the question is scan it he done the cheanest When the first expense can be afforded the silo is the cheapest and the best way of providing green feed for the winter. Every feeder appreciates that succulent food in the winter has two advantages; it is appetizing, which makes the cow enjoy her feed, and it keeps the system in a healthy condition and the bowels open. The nearer a cow can be fed in the winter to secure the natural loose condition of the droppings, as they are from the spring pasture, the more she can eat, and the more she will be able to give in return for each pound of food eaten, as when constipated there is a fever-ish condition of the body, a smaller

#### Corn, Silos and Cows for the percentage of the food is digested and converted into milk and the yield is lowered

is impossible to emphasize too much on the care and attention that should be given the filling of the silo, as on this point will depend a great deal the success of the ensilage. Corn should be as near as possible to the point of its full feeding value, when it is put in the silo, and that is just when the corn is going into the glaze. Corr should not be allowed to remain in the field over half a day after it is cut before it is put into the silo, as in this way you get the full value of the entire plant, and you will have sufficient moisture to cause fermentation, which will start almost immediately. Should it be impossible to handle it in this manner and the corn be left in the field for some days after cutting, before it can be placed in the silo, it should be stooked immediately, and in this manner it will retain as much of the moisture as possible, and if neces-sary a small stream of water can be run into the blower of the ensilage cutter when you are filling the silo.

There is nothing that will tend to increase the income on the farm, and make the western farmer satisfied and contented like the dairy cow, the corn and the silo.

#### The Progress of Dairying in Man. (Continued from page 4.)

all butter exported is accompanied by the Government Produce Grader's certificate, and butter purchased for the home trade is paid for on the basis of quality. During the present year of the creamery butter manufactured in Manitoba will be made from properly pasteurized cream.

#### Butter Gnade Standards. The grade standards for Manitoba creamery butter are established and

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defined by the Department of Agricul-

ture. They are based very largely upon the preferences of the trade and of the consuming public in the markets which we supply-with due regard to the conditions which surround the manufacture of creamery butter in this province. An extra grade will be added this year to be known as "Manitoba Specials." This grade was asked for by the members of the Manitoba Dairy Association in con vention Feb. 15th and 16th, 1917. In butter may order that creamery qualify for "Special" grade certificate it must have been made from properly pasteurized cream and otherwise sely conform to the following de scription, which represents in a gen-eral way the requirements of the mar-Fixtor: Firm and fine; clean but not excessive, free moisture. Color: Uniform and of a pale straw shade Salting: About two to two and one-half per cent., thoroughly dissolved and incorporated

The foregoing is an outline in brief of the means we have adopted to im-prove the quality of Munitoba creamery butter. The results obtained have been very encouraging. In the year 1912 Manitoba imported 55 car loads butter from eastern Canada. In of butter from eastern Canada. In the year 1916 this condition was ruth-lessly reversed and, in ead of im-porting, the province of Manitoba ex-ported no less than 68 car loads of creamery butter, or close to 2,000,000 pounds, and a considerable portion of which was sent to the British markets. The future of the dairy industry in the province of Manitoba is definitely assured and, so far as it is possible to make a forecast, a further extension will have to be recorded for the cur-

rent year. It behooves us to pay a little more gated.

WHEN COMING WEST

vate the acquaintance of

, take time enough to culti-

August 16, 1917.

attention to our home products and not gauge their relative values by the remoteness of the scene of their pro-duction. Far too often it is agreeably interpreted that Manitoba is a grain growing province pure and simple. This has been proved to be a delusion.

#### Dairy Farming on Western Irri-gated Land (Continued from page 7.)

440,000 acres are to be rendered inrigable, while in the western section about 370,000 acres have been brought under irrigation. The central section contains 901,740 acres. At first it was intended to irrigate about one-quarter of this area. Up to date, construction of this portion of the system has been held in abeyance.

#### The System of Canals.

The system of dams and canals which supply the water is most inter-The water for the western esting section, for instance, is diverted from the Bow River at a point just inside the easterly limits of the city of Cal-From there it is carried south and east through a main canal 17 miles in length, which in part is 60 feet wide in the bottom and 120 feet wide at the water line, and designed to carry water to a depth of ten feet. The larger portion of this canal, how-ever, is 44 feet bed width and 84 feet on the water line.

This main canal delivers water to a reservoir for which a natural depression has been utilized, and whereby the erectic v of a large earth dam a body of water three miles long, half a body or water three miles long, has a mile wide and 40 feet in depth has been created. From the reservoir the water is taken out in three secondary canals, "A," "B" and "C" and earried to the different districts to be irri-These secondary canals have August 16, 191

a combined lengt From the seco vary in bed widt the water is again tributed in eas through a comp distributing ditch water to each p gated. In the we lowing mileage of constructed :- Ma secondary canals buting ditches, 1.3 In additi there are several small ditches c farmers to distri their farms. The section has been of-less than five area, both irrigat remaining unsold. tion there are al awaiting settleme

#### Number In the western

about 600 actual tween what they rent, are workins In addition there tlers on the dry For some years t Railway advertise for sale. Mistake which the compar due to a class o cured who were carrying on of ir late years the com ing most of its s rigated districts in Much better resu tained by these making it easie perianced in irrig of whom are buy make a success o Best Styles

My impr that irrigation far almost exclusively farming. It came surprise, therefore that the history of terprises in the l demonstrated that gation is not so n of either fruits, ga expensive crops, finishing of live velopment of dain branches. Because dian Pacific Railw its attention large animal husbandry fodder crops in it This work is bein, J. G. Rutherford, of the Live Stock company and who live stock men all former Dominion sioner Dr. Rut Mr. A. D. Campbel years ago was the tive at Morrisburg showed me a photographs of cre rigated district. 1 carried out I hop sections al article appears in port something me the actual results the settlers than I give in this article

#### Sask. where \ (Continued f

has got held of hi coming. In his opi It is at the head ladder. Wheat is wan.

And wheat will placed from its p the province. The swing to mixed far Acreages coming

#### A FEW FACTS TO THINK ABOUT

MANITOBA

1. Manitoba still has splendid land for sale at Low Prices.

2. Manitoba has an advantage in freight rates over the other Western Provinces, on account of proximity to markets.

3. Manitoba Legislature already has effectively dealt with the question of rural credits through the Manitoba Farm Loans Act and the Rural Credits Act. Under the former the Government provides money to farmers at low interest rates on long term mortgages. Under the latter farmers, assisted by the Government and the municipalities, organize into groups for short term borrowing. These Acts are now IN OPERATION in Manitoba.

4. Manitoba Government, on behalf of bona fide land owners, lists lands for sale, enabling prospective buyers to get directly into touch with the real land owners.



5. There are no better agricultural opportunities to-day than in Manitoba.

## V. WINKLER

Minister of Agriculture and Immigration.

#### August 16, 1917.

a combined lences of about 550 miles, wheat is proportionately holding its From the secondary canada, which own. There are reasons for thisvary in bed width from 18 to 40 feet, reasons overlooked by many parliathe water is again taken out and dismentarians at Othara in opposing the tributed in each irrigation district demands of the farmers for tariff redistributing ditches, which bring the would worry less about fiscal matters distributing ditches, which bring the would worry less about fiscal matters distributing ditches, which bring the would worry less about fiscal matters distributing ditches, which bring the would worry less about fiscal matters distributing ditches, which bring the would worry less about fiscal matters distributing ditches, so that the would worry less about fiscal matters weendary canada, 17 miles; inhed by railway companies with axes secondary canada, 18 miles; inhed by railway companies with axes secondary canada, 19 miles; where more of these should be done, small ditches constructed by the but a complete reorganization of agrifarmers to distribute the water over ulture along these lines is neither their farms. The land in the western section has been pretty well disposed to mot here more. In the castern actars, both irrigable and non-irrigable, uon there more latered.

#### Number of Settlers.

In the western section there are about 600 actual settlers who, between what they own and what they rept, are working about 1,000 farms. In addition there are about 600 settlers on the dry lands in this area. For some years the Canadian Pacific Railway advertised ready made farms which the company readily admits, due to a class of settlers being secured who were not suited for the carrying on of irrigation farming, of late years the company readily admits. Much better results are being obtained by these men and they are making it easier for farmers inceperiaced districts in the United States. Much better results are being obtained by these men and they are making it easier for farmers inceperiaced in trigation farming, some of whom are buying this land, to make a success of their venture.

#### Best Styles of Farming.

My impression had always been that irrigation farming was conducted almost exclusively for fruit and truck among textusively for fruit and track farming. It came as a considerable surprise, therefore, to be informed that the history of the irrigation en-terprises in the United States has demonstrated that the basis of irrigation is not so much the production of either fruits, garden truck or other expensive crops, as the feeding and finishing of live stock and the development of dairying in its various branches. Because of this the Cana. dian Pacific Railway is concentrating its attention largely on developing animal husbandry and the raising of folder crops in its irrigated district. This work is being supervised by Dr. J. G. Rutherford, who is at the head of the Live Stock Department of the company and who is well known to live stock men all over Canada as the former Dominion Live Stock Commissioner. Dr. Rutherford's assistant, Mr. A. D. Campbell, B.S.A., who some years ago was the district representative at Morrisburg, in Dundas County, showed me a number of striking photographs of crops grown in the irrigated district. If present plans are carried out I hope to visit some of these sections abcut the time this article appears in print, and to re-port something more definite about the actual results being secured by the settlers than L have been able to give in this article.

#### Sask. where Wheat is King (Continued from page 5.)

has got held of him. It has got him coming. In his opinion it has prestige. It is at the head of the cereal social ladder. Wheat is King in Saskatchewan.

And wheat will not soon be displaced from its premier position in the province. There is a widespread swing to mixed farming, but with new acreages coming under cultivation

reasons overlooked by many parliamentarians at Ottawa in opposing the demands of the farmers for tariff re-form. They say that if the farmers would worry less about fiscal matters and grow more cattle, they would be better off. But impressions received while travelling on free passes furnished by railway companies with axes to grind are not always reliable. There are parts of the provinces well adapted to stock raising and dairying where more of these should be done. but a complete reorganization of agriculture along these lines is neither possible nor desirable. Building material is high in price. The produc-tion of large amounts of suitable feed for the long winter feeding period is difficult. In some localities water is hard to obtain in sufficient quantities for carrying much livestock. In the great southwestern portion there are occasional dry years and it must al-ways be remembered that the amount of live stock carried by a district is limited absolutely by the amount of feed produced in the poorest year. The wheat grower can afford to lose an occasional crop. Within the last two weeks I have seen fine new barnz and houses being built on farms that in 1914 did not produce seed and enough for the 1915 crop. The ability of wheat farmers to "come back" is marvellous. One good crop at fair prices will frequently establish their prosperity. Two good crops at high prices have compensated for the part-ial failure of 1914 many times over. Can you blame them for sticking to wheat? Besides, in these times of world wide food shortage, the Saskatchewan wheat farmers have the satisfaction of knowing that they are pro-ducing more exportable foodstuffs per man than any other class of farmers under the sun.

#### Annual Meeting of the C.S.G.A,

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 let. Dr. Jas. W. Robertono, President, occupied the chafr, and there were present among others: Dr. C. A. Zavitz, O.A.C., Guelph; G. H. Clark, Seed Commissioner; Geo. F. Chipman, Winnlpeg; R. B. Whyte, Ottawa, and the Secretary, L.H. Newman.

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 ex-pert 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 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 conference. The matter of encouraging the production of registered seed potatoes on a substantial scale in certain districts in New Ontarlo for use in the older settled parts was discussed the older settled parts was unconse-at considerable length. The Associ-ation expects to cooperate with the Provincial Department in this work, and looks forward to rather large de-velopments. The officers elected for the ensuing year are as follows: Dr. Jas. W. Robertson was re-elected President, as was also Mr. L. H. Newman as Secretary-Treasurer. The

#### FARM AND DAIRY

Young Men on The Farm!! Who Cannot Go to War!!

\*

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

## ONTARIO AGRICULTURAL COLLEGE

#### 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.

## The Place of the Canadian Northern in the Economic Life of Canada

The expansion of modern Canada has been achieved through transformer of the sense of the Vote are the transformer of the sense of the Vote are the transformer of the sense of the Vote are the Vote are

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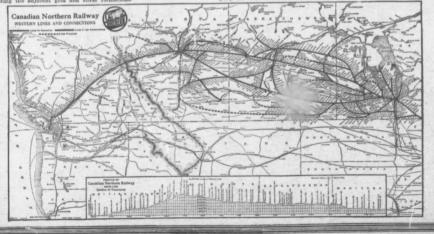


#### The Annual Harvest of Golden Grain to Feed the World.

The Annual Harvest of Colden Grain to Feed the Word. Most respite in Candidi have in each more than natural riches, varied in char-for take Superior -- with the result of the so-called wilderness on the output of the Superior -- with the west, and yet, a may is put in the take Superior -- with the west, and yet, a may is put in the take Superior -- with the west, and yet, a may is put in the more superior -- with the source of the superior superior in the superior superior -- with the superior superior superior superior superior builder superior -- with the superior superior superior superior builder superior -- with the superior superior superior superior builder superior -- with the superior superior superior superior builder superior -- with the superior superior superior superior builder superior -- with the superior superior superior superior builder superior -- with the superior superior superior builder superior -- with the superior superior superior builder superior -- with the superior superior superior more superior superior -- with the superior superior superior more superior -- with the superior -- with the superior more superior -- with the superior -- with the superior -- with the superior more superior -- with the superior -- with the superior -- with the superior more superior -- with the superi

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Folgest is the pivot point for Canadian Northern deve t. But each of the other new divisional contros-Horne making progress. The setting up of an industry in them, ate a market for settlers' output and clear the land for . The fourth divisional point, Capreol, is only a form in



August 16, 1917.



August 16, 1913

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August 16, 1917

#### FARM AND DAIRY

## a Compound of Canadian Constructive **Energy and British Investment** A Vital Force for Expansion Within the Dominion

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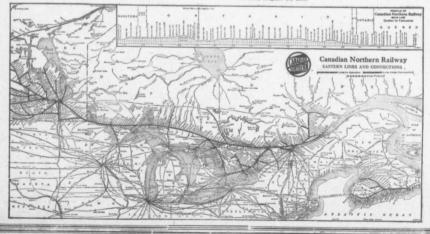
aucess as a marketing centre for each litle community. T HROCH these marketing centres on the Canadian Northern, tagether with those it serves in common with competing railways, there has passed the last two decades a steadily increasing stream of grain, cattle, dairy products country. Approximately one-third even of approximate products the top of the serves of the serves. Canada, is moved over the rails of the Canadian Northern Railways and by year, through additional acreage going under the plough, production le in-resing in the territory it arrys.

by sear, through additional acrease contra under the plough, production is in-creasing in the territory it serves. The search of the territory it serves. The search of the serves of the search of t



One of the 600 Marketing Centres on the C. N. R. in the Wheat Belt

One of the 600 Marketing Cantres on the C. N. R. in the Wheat Belt. AN Dubie, in addition, it is considered that through the building of fa Hans, the Canadian Northern has thrown open yaat areas since developed through issubering activities, and mining activities, on a kirge scale, its contribution the marketing activities, and mining activities, on a kirge scale, its contribution the one of the marking of counties is characteristic of its record during the last 20 years. The desire for the marking of counties heads of wheat to grow where none Seventy-five per cent. of the aggregate power of the initial plana. Seventy-five per cent. of the aggregate power of the initial plana. Seventy-five per cent. of the aggregate for four, mary 122 million bushes of and Canada having 5.006 and humber, in addition to livestock, coul-and miseeliancous freight. The Canadian Northern is a compound of Canadian constructive energy and bitism control Aussus (4). 197.



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#### (12) The Farmers' Movement in Western Canada

(Continued from page 3.) Association was established, and from that time to this the farmers' movement has been an important influence in public affairs in Western Canada. The First Big Fight.

Those were the days of 30 and 40 cent wheat. The farmers had no way in which to market their grain except through the elevators of capitalistic through the elevators of capitalistic companies, whose chief aim was to secure the grain for the smallest amount of money the farmer could made to accept for it. Farmers

#### FARM AND DAIRY

who desired to ship their grain direct found it almost impossible to ship over the loading platforms of the elevator companies, and when they did do so still had to pay tribute to the companies. To make the situation companies. To make the altuation worse the railway companies were in close league with the elevator com-panies, and often refused to furnish panles, and often refused to furnish the farmers with cars, thus forcing them to ship through the elevators. The first big fight was with the rail-

the farmers with cars. It resulted in the passing of an act which gave the farmers the right to ship their grain direct. This act, however, was disre-

garded by the railway companies u der the plea that they did not have enough cars to supply the farmers. This made it necessary to repeat the fight all over again, but the fighting blood of the farmers had been aroused and they had been cheered by their and they had been cheered by their initial success, and so they went to work again with a will. Their next succeas came when they succeeded in secaring legislation which compelled the railway companies to furnish cars to shippers in the order in which apto suppers in the order in which ap-plication was made for them. This prevented the railway companies shooting their cars to the elevator companies while refusing to supply



them to the farmers. It has been e timated that this clause alone in the Canada Grain Act has been worth to every farmer selling grain during the past 15 years at least 10 cents per bushel on every bushel of wheat sold and thus has been worth tens of mil-lions of dollars to the farmers of the

#### Growth of the Movement.

Growing out of the success of the Territorial Grain Growers' Associa-tion, the grain growers of Manitoba were led to form the Manitoba Grain Growers' Association in March, 1903. Among the officers of this association Among the officers of this association was Mr. R. C. Henders, who was ap-pointed vice-president and who has been active in the movement ever since, Mr. Henders is the present president of the association. The first secretary of the association was Roderick McKenzie, of Winnipeg, who retained that position till about two years ago, who he resigned in order that he might devote all his time to his duties as secretary of the Canadian Council of Agriculture. Still later there was formed the organiza-tion which is now known as the United Farmers of Alberta.

#### The Business Companies.

As the number of local organizations in all three provinces increased there became a growing demand that the farmers should find some method marketing their own grain. In 1905 a committee was appointed to investigate the practicability of the investigate the practicability of the farmers disposing of their grain co-operatively. The committee reported favorably in 1906, with the result that action was taken that led to the es-tablishment that year of the Grain Growers' Grain Co., which is now the most powerful organization of its kind in the world. In spite of strenuous opposition of many of the leading husiness interests in the west, this company has grown with tremendous strides. It now does a business run-ning into many millions of dollars a year. Its profits last year were \$775,000. Growing out of this success there was established a few years later the Saskatchewan Cooperative Elevator Co., which has been equally succesful and last year reported pro-fits of \$750,000. Still later there was fits of \$750,000. Still later there was formed the Alberta Farmers' Coopera-tive Elevator Co. This company last year reported profits of almost \$300, 000 and is shorily to be amalgamated with the Grain Growers' Grain Co. in a new company to be known as the United Grain Growers' Limited. These companies own and operate bundreds of elevators, as well as large terminal elevators at Port Arthur and Fort William.

#### Other Accomplishments.

Important as has been the accomplishments of the great business or ganizations of the western farmers they represent only one phase of the farmers' movement. In 1908 it was recognized that some means was required of giving more definite and ready expression to the desires and ideals of the farmers' movement. The result was that the Grain Growers' Grain Company was induced to en Grain Company was induced to co-tabilat the Grain Growers' Guide. From that time to this the Grain Growers' Guide has been the offi-cial organ of the farmers' move-ment in western Canada, and has wielded a tremendous influence on Wielded a tremendous influence to ba public life in the west. To-day it has over 34,000 subscribers the among farmers in western Canada. Again narmers in western Canada. Again and again it has exposed efforts to mislead and disorganize the farmers and thus has helped to keep the farm-ers' movement a live and vital force.

The Council of Agriculture. As the various provincial organizations grew in membership and in fluence, it became apparent that their

#### Assessed 16, 19

objects and aim refore it wa should be some to represent the ters of national some seven or e Agriculture, whi representatives three provincial the first few ye only occasional years ago, howe Increase its offic office was opene secretary appoin who was to giv To-day th work. ture represents i tions of the thr but the United I well

#### Reforms

So many have complished by t sible in a short a even mention th securing of prov woman suffrage the farmers hav forced the railw duce their rates a proved facilities supplies and mar They have ind legislatures to e lation to promote operative organi the telephone lin inces, to pass farmers to borrow tively low rates lish hail insur well as grant m forms One of the gre

posed on the farm grown out of the tion that has ta Hundreds of the land have been be of use by specula farmers to trave vacant land in o reach their own led the farmers demand the imp land values inst The rest ments. all the revenue ties in the west land value, there farmers' improve of taxation on th very successful a speculators to let and thus has en hold of the land Prominen

#### Because leader

movement have a deal with public that a number of been selected to positions. Mr. M intimated, is now ture for Sask member of the Saskatchewan, th was an early fig movement and i dent of the Sasks Elevator Co. M the manager of Mr. C. A. Dunnin provincial treasu Thus three leade movement in Sa members of the

In Alberta the dated the farm W. W. Wood, U ted Farmers Crerar, th

**Real Daylight Saving** In the harvest time every hour between daylight and dark is worth money to the busy farmer. You get an early start in the morning intending to do a big day's work, but the

binder, mower or other implement breaks down and you must go to town for the repairs. If you have a Ford you are soon away and its speed clips two hours off the former three-hour journey there and back.

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many ways you can use it for business

and pleasure you will wonder how you

Once you own a Ford and find out the

pounds. How handy this would be?

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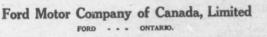
during the rush of seeding, having and harvest. You will find that the Ford will save you a week or more of valuable time on your necessary trips alone.

Many times you will want to take some produce along with you. Then your staunch

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#### Assessed 16, 1917.

objects and aims were identical and government members of the Board of therefore it was decided that there should be some central organization to represent the farmers in all matters of national importance. This led some seven or eight years ago to the formation of the Canadian Council of Agriculture, which was composed of representatives from each of three provincial organizations. of the For the first few years the Council held only occasional meetings. About two years ago, however, it was decided to office was opened in Winnipeg, and a secretary appointed in Mr. McKenzie, who was to give all his time to the work. To-day the Council of Agriculture represents not only the organiza-tions of the three prairie provinces, but the United Farmers of Ontario as well

#### Reforms Accomplished.

So many have been the reforms accomplished by the organized farmers in western Canada that it is impossible in a short article such as this to even mention them all. Besides the securing of provincial prohibition and woman suffrage in all three provinces. the farmers have again and again forced the railway companies to reforced the ranway companies to re-duce their rates and to grant them im-proved facilities for handling their supplies and marketing their products. They have induced the provincial legislatures to enact excellent legislation to promote the formation of cooperative organizations, to take over the telephone lines in the three provthe three prov-inces, to pass legislation enabling farmers to borrow money on compara-tively low rates of interest, to estab-lish hall insurance commissions as well as grant many other similar reforms

One of the greatest handicaps im posed on the farmers of the west has grown out of the tremendous speculation that has taken place in land Hundreds of thousands of acres of land have been bought up and held out of use by speculators, thus forcing the farmers to travel long distances past vacant land in order that they might reach their own homesteads. This led the farmers of western Canada to demand the imposition of a tax on land values instead of on improve-ments. The result is that practically all the revenue of rural municipalilites in the west is raised by a tax on land value, there being no tax on farmers' improvements. This system of taxation on the whole has proved very successful and has forced many speculators to let go of their holdings and thus has enabled farmers to get hold of the land on reasonable terms.

#### Prominent Public Men.

Because leaders in the farmers movement have shown their ability to deal with public life, it is only natural that a number of them should have been selected to fill important public positions. Mr. Motherwell, as already intimated, is now Minister of Agricul-Saskatchewan. ture for Another member of the provincial cabinet of Saskatchewan, the Hon. Geo. Langley, was an early fighter in the farmers' movement and is still the vice-presi-dent of the Saskatchewan Cooperative Elevator Co. Within the past year the manager of the same company, Mr. C. A. Dunning, has been appointed provincial treasurer of Saskatchewan. Thus three leaders in the farmers' movement in Saskatchewan are now members of the provincial cabinet.

In Alberta the Hon. Duncan Marshal, Minister of Agriculture, has also isted the farmers' movement. Mr. H. W. Wood, the president of the United Farmers of Alberta, and Mr. T. A. Crerar, the president of the Greath Growser? Granh Co., were re-cessity appointed by the Dominion

Grain Supervisors which has very wide powers and is charged with the responsibility of supervising the sale and marketing of the wheat crop this year in Canada.

#### Association Officers.

The chief officers of the farmers' organizations in western Canada are as follows

Manitoba Grain Growers' Associa tion-President, R. C. Henders, of Winnipeg, who at present is acting also as secretary of the association.

Saskatchewan Grain Growers' Association, President, J. A. Maharg, Moose Jaw; secretary, J. B. Mussle-man, Regina.

United Farmers of Alberta .-- Prest

United Farmers of Alberta.--Prest-dent, H. W. Wood, Carstairs; secre-tary, P. P. Woodbridge, Calgary. Canadian Council of Agriculture.--President, H. W. Wood, Carstairs, Al-berta; secretary, Roderick McKenzie, Winnipeg.

It is with these successful business organizations that the United Farm-ers of Ontario and the United Farmers' Cooperative Company, Limited. are now linked up through the Cana-dian Council of Asticulture. The pro-gress already made indicates that the as successful in Ontario as it has in the west. Already our Ontario As sociation, with its over 10,000 mem-bers has a larger membership than the Manitoba Grain Growers' Associa In time it should have tion. the largest membership of any of the provincial organizations. The united support of the farmers of Ontario is all that is required to enable equally as great reforms to be accomplished in the east as have been secured in the west.

#### Fall Pastures for Profit

T is important that live stock go into winter quarters in good condi-tion. Good flesh and vitality gained during the fall months lessens the cost of carrying through the winter. It is difficult to make stock do as well any place as on good pastures and an at tempt should be made to provide the best of grazing facilities during the fall months. In many instances the regular pastures have been eaten bare while the crops have been growing and must be supplemented, if best gains are to be made

On farms where aftermath is not available and where the pastures are bare a good supplement is offered in an early-sown crop of fall rye. With rye sown at the rate of two bushels per acre on well prepared land there is a possibility of excellent pasture the various classes of animals. for Fall rye is best adapted to the needs of sheep and they do exceptionally well upon it. A thick growth of fall rye is also acceptable pasture for hogs and gives the opportunity for a ma-terial saving of grain. When well grown, fall rye makes an excellent fall pasture for cattle of any kind. It is especially useful in quickening the milk flow from dairy cows. Best of milk flow from dairy cows. Best of all, a fall rye crop can be pastured by sheep or cattle during the fall months without in the least reducing the yield of grain from it the spring following. Any one who is short of pasture should plow up a plece of land and sow it to fall rye by August 15.

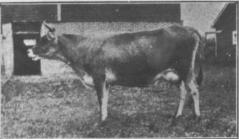
Where the rye crop is not wanted or rye seed is not available, good fall pasture can be provided by sowing a mixture of oats one and one-half bushels, barley a bushel, and Dwarf Essex rape two pounds per acre. This mixture sown by August 15 will furnish an excellent growth of rough for-age that will be very acceptable when the grass pastures are gone.—A. B.





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#### FARM AND DAIRY



#### A High Testing Jersey of the Foot-Hills.

This is Society Bells, owned by W. J. Williamson, Fort Saskatchewan, Alberta; dam, Society Beauty; sire, Brampton Rose's King. She has tested 6.82 per cent. butter fat.-Photo by an editor of Farm and Dairy.

#### Iersey Cattle Interests Are Progressing in the West

By an Editor of Farm and Dairy.

NY lover of dairy cattle who A visits western Canada and takes in the leading summer and fall exhibitions cannot help being impressed by the numerous excellent herds of Jersey cattle that he will find at the various exhibitions. This Ind at the value exhibitions. The second sec the climate and soil conditions of Alberta and British Columbia seem to be better suited to the raising of good Jersey cattle. This applies also to the other dairy breeds.

In western Canada large towns and In western Canada large towns and cities are not numerous, and the manufacture of cheese is but little practiced. The making of butter, on the other hand, is becoming an im-portant industry. Cows which can be counted upon to give a large yield of butterfat are therefore sure to be popular. This helps to explain why Jerseys are now one of the principal breeds in Alberta, where the finest butter in Canada is manufactured. They are popular also in British Columbia, where profitable prices are paid for butter and cream. Another paid for butter and cream. Allocate factor that is helping Jerseys in Brit-ish Columbia is the method adopted by the local cow-testing associations of including the cost of production in the records that are kept of the production of each cow, so that the net profit in each case is shown. Certain it is that pure-bred Jersey and Jersey grade cattle have been increasing ra-

pidly during the past few years in British Columbia. Utility Type Pre-

#### ferred.

There have been ome Jerseys imported into western Canada from the United States during the past year that in beauty of type and conformation will hold their own with the best show yard animals that eastern Can-ada can produce. This is saying a good deal when we consider the rarely good animals that are found in such herds as those of B. H. Bull & Sons, of Brampton, and Sir William MacKenzie at Kirkfield, and Mr. Robert Fleming's at at Toronto. Neverthe-

less, the fact is that the west prefers a larger and more rugged type of Jer-sey than is commonly noticed in the show yards in the east. The people of western Canada are essentially practical. They have little regard for show and fine feathers, but a high opinion of everything that has a direct utility value. This it is which is leading them to demand a type of



#### good Berk owned by W. J. Williamson, of Alberta.

Jersey cow that while testing high will also yield a large mess of milk. An Outstanding Herd.

In last year's Western Canada number of Farm and Dairy mention was made of the well-known Jersey herd of J. Harper & Sons, of Westlock, Alberta. For some years this herd has been the leading Jersey herd shown at the exhibitions in the prairie cir-cuit. This year this herd has been re-markably successful in cleaning up most of the prizes. During the past 12 months it has been strengthened by the purchase of 12 animals from leading breeders in Kentucky and Wis-consin, with the result that it is stronger than ever before. Five of



these animals were secured from the famous Allandale Farm at Shelby, Ky., the purchase price of several of them running into four figures each. Two of these animals formed part of Two of these animals formed part of the winning breeders' young herd last year at a number of the leading fairs in the United States. All five were from high-testing animals in the American Registry of Merit. One heifer was recently imported from the Island and a second one was brought over three years ago.

Mr. Harper's show herd this year comprised 19 animals. At Calgary it won all the red tickets but one, and won all the red tickets but one, and in that class they did not have an ani-mal to enter. At Red Deer they got all the first prizes, there being only one other competitor. At Edmonton they took all the first prizes but two. they took all the first prizes but two. Here they were defeated in the junior yearing bull class by an animal of their own breeding. At the Brandon 7 Exhibition we had the privilege of looking over their stock, including their recent importations, and were not surprised when we were informed that Mr. W. W. Ballantyne, of Strat-tered one and Mr. W. Stephen. do ford, Ont., and Mr. W. F. Stephen, of Huntingdon, Que., who judged at some functingdon, Que, who judged at some of the western fairs this year, had ex-pressed the belief that they were as fine animals of the breed as ever have tine animals of the oreed as ever have been imported into Canada. This is particularly true of You-Will-Do Sweet-Thistles-Tattoo, a two-year-old which this year has been winning the grand championship for the breed on the western circuit. Certain it is that she is a rarely good one.

ane is a rarety good one. A Utility Herd. A typical western utility Jersey herd is that on the farm of W. J. Williamson, of Fort Saskatchewan, about 20 miles out of Edmonton. Mr. Williamson has been breeding Jerseys for only a few years, but already has secured stock which does him credit, and which will assure him, if his present plans are carried out, havhis present plans are carried out, nav-ing in time a herd of great merit. This herd was started only five years ago. Mr. Williamson left Lindsay, ago. Mr. Williamson left Lindsay, Ont., and moved to the west in 1905. For a couple of years he lived in Ed-monton, and later on bought a farm near Edmonton. About five years ago he purchased his present farm of 365 acres from his brothers and com 365 acress from his brothers and com-menced the breeding of Jerseys. His first start was made with three fo-males purchased from John Stein-ford, who had procured them from David Ure, of Windsor, Ont. All three animals are still in the herd, and have done well for Mr. William-

"My aim in breeding," said Mr. Williamson, "Is to develop a strong type of animal which, while testing high, will also give the largest pos-sible yield. So far I have been aiming to secure strength and size rather



Buildings on farm of W. J. Williamson, Fort Saskatchewan, Alberta, Jersey cattle breeder.

#### August 16, 191

than some of the I believe I will be I feel that I have g intend to still fur herd as rapidly as tions will permit.' of my visit to Mr. his animals were considerable plea found to be stron showing every good performers The young stock strong in point of

The He The herd sire, D an unusually la ing about 1,610 po yard type individual, and his his strength of con qualities. This bul Hazel Pogis and Flora. He is a M on both lines of traces into high-t cluding the dairy of St. Louis World bought from E. O. Ore.

A younger bull Raleigh, took secor year-old class at the bition, and is a y good quality, show type, vigor and sm with strength an qualities. This bul W. F. Cameron, o dam being Primro the Massie breed Brampton Raleigh from B. H. Bull &

Some Good The herd compri bred animals and of superior femal might be mentio might be mentio seven years old, or mals purchased. I ety Beauty, and I Roses King. Her aged 6.2 per cent

producer. Lady of the West mal, is of the larg Mr. Williamson weigh about 1,100 weigh about 1,100 Dentonia's Society Buckland's King E A daughter of La Hillcrest Lass, a so

by Brampton Rose low, deep-set anim dairy capacity and fty.

In addition to h Williamson has abo including young sto made into butter an Macdonald in Edm son is planning to States or the Isle in order to furth herd. He desires more pure-bred co his herd sire.

Farm Op Farm Op Mr. Williamson farmers who, hav from Ontario, is y the change. The h unusually rich and well suited for da being water in ever grown include abo wheat, 17 of barley, 30 of green feed, a total of 250 acres There is also grow of roots and potato raised with a fair during the past threacres of alfalfa w year and produced and good pasturage

The farm is we buildings, including feet, including two each. The barn brick foundation

#### August 16, 1917.

than some of the finar points, which house under one wing. There is a I believe I will be able to accure later. milk house, 15 x 32 feet, with a reflect that have so ta good stark but frigerator, in which the temperature I feel that I have not a good mark but inserted at from 40 to 44 intend to still further strengthen my can be controlled at from 40 to 44 herd as rapidly as my farming opera- degrees. There is also a elaughter tions will permit." On the occasion house, 37 x 40 feet, in which there of my visit to Mr. Williamson's tim another large cold storage compartfound to be strong, robust animals, showing every indication of being good performers and money makers young stock The was particularly light. strong in point of quality.

#### The Herd Sire.

The Herd Sire. The herd sire, Dorinda Flora's Son, is an unusually large Jersey, weigh-ing about 1,610 pounds. While not a show yard type he is a good individual, and his young stock show his strength of constitution and dairy qualities. This bull was sired by Olga Hazel Pogis and is out of Dorinda Flora. He is a Merry Maiden's son on both lines of his breeding, and on both lines or his breading, and traces into high-testing animals, in, show ring at cluding the dairy test winners at the ficial records St. Louis World's Fair. He was In the Exh bought from E. O. Fisher, of Carlton, they reference

A younger bull, Primrose Golden Raleigh, took second place in the two-year-old class at the Edmonton Exhibition, and is a youngster of rarely good quality, showing good Jersey type, vigor and smoothness, combined strength and good handling les. This bull was bought from qualities. W. F. Cameron, of Strathcona, his dam being Primrose Golden Fox of the Massie breeding, and his sire, Brampton Raleigh Boy, a bull secured from B. H. Bull & Sons.

#### Some Good Females.

The herd comprises some 17 pure bred animals and includes a number superior females. Among these ht be mentioned Society Belle. of might seven years old, one of the first animals purchased. Her dam was Soci-ety Beauty, and her sire Brampton Roses King. Her tests have aver-aged 6.2 per cent. She is a large prod

Lady of the West, a 10-year-old ani-Taily of the large dairy type that Mr. Williamson prefers. She will weigh about 1,100 bis. Her dam was Dentonia's Society Girl, and her sire Buckland's King Edward IV. A daughter of Lady of the West is

HIII rest Lass, a seven-year-old, sired by Brampton Rose King. This is a low, deep-set animal, showing great dairy capacity and good Jersey qualftv

In addition to his pure-breds, Mr. Williamson has about 20 grade cattle, including young stock. The cream is made into butter and sold to the Hotel Macdonald in Edmonton. Mr. William son is planning to go either to the States or the Isle of Jersey this fall in order to further strengthen his herd. He desires to secure a few nore pure-bred cows and to change his herd sire.

#### Farm Operations.

Mr. Williamson is one of those farmers who, having moved west from Ontario, is well satisfied with the change. The land on his farm is unusually rich and productive. It is well suited for dairy farming, there being water in every field. The crops grown include about 45 acres of wheat, 17 of barley, 60 of timothy hay. of green feed, and the balance. (a total of 250 acres in crop) in oats There is also grown five to 15 acres of roots and potatoes. Corn has been raised with a fair degree of success during the past three years. Eighteen acres of alfalfa were grown in one year and produced two good cuttings and good pasturage.

and good pasturage. The farm is well equipped with buildings, including a barn 86 x 70 feet, including two wings of 18 feet each. The barn has an eight-foot

Water is piped through the buildings by a Fairbanks-Morse engine, in addition to which there is a 12 h.p. International engine. The buildings are equipped with electric

At the Edmonton Exhibition this year Mr. Williamson's Jerseys cap-tured 17 prizes. He is commencing to test his animals this year, having en-tered them in the R.O.P. Like many other farmers the chie! difficulty he has to contend with is lack of experi enced help. This has handicapped him quite a little in his farm work, but he hopes soon to overcome it and to develop his herd to a point where it will take a leading place both in the show ring and in the making of of

In the Exhibition number of Farm and Dairy we hope to publish a fur-ther reference to the Jersey herds of western Canada, more particularly those in British Columbia.

#### Gold Medal Farmer Dead

SAD fatality occurred at Wood stock on August 6th, when Mr Wm. Donaldson, 88 years was run over by an automobile and killed. Mr. Donaldson was at one time known far and wide as one of the best farmers in Ontario, and his farm was once awarded the gold medal in an Ontario Good Farms farm Competition, conducted by the Provincial Government. Mr. Donaldson came to East Zorra from his home in England when a boy of eleven, and had lived on the farm in which he took so much pride ever since. He was a member of the executive of the Agricultural College, presi-Ontario dent of the North Oxford Agricul-tural Society for many years, and for some years president of the North Ox-ford Conservative Association.

#### W. J. Bell Appointed

J. BELL, B.S.A., has been ap-pointed Principal of the Agri-cultural School which the On-tario Government is establishing at Kemptville for eastern Ontario. Mr. Bell comes from Dufferin county, and taught school for a number of years. Since graduating at Guelph he een in the Institutes Branch of the Ontario Department of Agriculture. He is reported as an excellent live-stock man. His appointment takes effect on September 1st.

Although the school will not be open for students in the regular courses this year, there is a great deal of preliminary work to be done. which will require the attention of a Principal. The live-stock judging pa-vilion will be finished this year, in which short courses will be held during the winter months. The two-hundred-acre farm is also being operated by the government, and a herd of dairy cattle is being assembled. the work is chatefore being advanced as rapidly as possible, under war con-ditions, and everything should be in shape for starting the institution on full running as soon as the war is over

#### More Western News

Owing to lack of space in this issue. several articles dealing with western Canada had to be held over. These articles will be published in succeeding issues of Farm and Dairy. Some of the subjects to be treated are "Live Stock Marketing in Alberta," "How Western Farmers Raise Their Taxes each. The barn has an eight-foot "What Saskatchewan Does to Help brick foundation and a large root its Farmers," and numerous others.





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Twenty Years

#### FARM AND DAIRY

#### Leaders in Western Agriculture

Introducing to Our Readers the Ministers of Agriculture for Our Four Western Provinces--By the Deputies

THE HON. VALENTINE WINK- gave to the accomplishment of the LER, Minister of Agriculture task of organizing the scattered has farmed extensively in that prov- ern farmers enjoy the benefits which ince, being a breeder of pure-bred live-stock, as well as engaging extensively from their unyielding taskmasters. In grain growing. Mr. Winkier was His department is admitted by even born at Newstadt, Ontario, on March his political opponents to be one of 18, 1864, and in 1878 migrated to Emerson, Manitoba.

His sympathy with the struggling His sympathy with the struggling homestcader was the reason for the passing at the 1916 session of the Manitoba Legislature of "The Settlers" Animal Purchase Act," or, what is far better known as "The Winkler Cow Scheme." This Act is entirely ori-ginal and will in time be the means of



Hon. Valentine Winkler, Minister of Agriculture and Immigration for Manitoba.

developing a prosperous community in a section of Manitoba where the set-tlers were in need of practical assistance

there were an acce, or processes of legisla-of rahered by the Manitoba Minister th Agriculture during his term of of-face are the "Agricultural Societies" Act," "Sheep Protection Act," "Stat-how Enrolment Act," and the new Wreeds Act, all of which are working out admirably well and producing beneficial results to a marked degree. The Minister is a man of few words but quick action; physically strong and mentally active; a pronounced democrat, and commands the respect and comfidence of the entire staff of his department; a Liberal in politics;

his department; a Liberal in politics; a Methodist in religious belief, and a Canadian in ideals.

A PIONEER among pioneers and a farmer among farmers is Hon. W. R. Motherwell, of Saskat-chewan, Minister of Agriculture for the big wheat-growing province of Canada, where the "farmers' govern-ment" is strongly entrenched in the confidence and esteem of the elector-

ate. Mr. Motherwell began life in Perth, Ontario, 58 years ago. He home-steaded in Aberneity district north of Qu'Appelle 35 years ago. He was a student at the Ontario College before going to the "Northwest," and the training which he there received, with the experience on his father's farm, the comparison for a successful the experience on his father's farm, was the foundation for a successful career in the new land. He was largely instrumental in organizing the Grain Growers' Association in Saskatchewan and was president of the association until he became Minister of Arricul-ture in 1965. The world knows how this association has succeeded, but few know the time, the energy, and the thought which Mr. Motherweil

THE HON. VALENTINE WINK- gave to the accomplishment of the

the most capably administered of any in Canada.

THE HON. DUNCAN MARSHALL, Minister of Agriculture for Al-berta, has one great ideal in life, to promote the welfare of the men of the land. This consecution of intelligent endeavor on behalf of Al-berta's agricultural problems has already borne a rich harvest in almost every avenue of our agricultural development.

Velopment. Mr. Marshall was born September 24, 1872, at Elderslie Township, Bruce County, Ontario. He was one of the best-known workers and organizers of the Patrons of Industry movement in Ontario from 1891 to 1898. He came Ontario from 1891 to 1898. He eame to Alberta June, 1905, ass manager of the Edmonton Morning Builetin, un-til he became Minister of Agriculture. He is the owner and operator of a large farm in the Olda District. While it has been said that his greatest hobby is "itre stock," bis most distinguishing characteristic un-dowheid he shean in promoting archi-

doubtedly has been in promoting agri-cultural education. Mr. Marshall has curtural education. Mr. Marsaai has set the standard for practical teaching service for farm boys and girls for the whole of the Dominion of Canada, in the establishment of his Agricultural Schools. It is evident from the popu-



Hon. W. R. Motherwell, Minister of Agriculture for Saskatchewan.

larity of the schools that they are meeting the need of the province. They have now been in operation four years and some 900 boys and 350 girls have been in attendance. Under his skilful direction the cause of agricul-ture in Alberta has the right-of-way to-day and is being established upon the firm foundation of modern science, statistics, facts and advertising, and everywhere our farmers are enjoying a large measure of contentment and prosperity.

HE HON. JOHN OLIVER, Min-ister of Agriculture and Rail-A inter of Agriculture and Rail-ways for British Columbia, has behind him considerable experience in agriculture and contracting in his province. Mr. Oliver was born in the Village of Hartington, Derbyahlre, England, on the Bist July, 1856, and came to Weilington Comuty, Marybor-ough Township, with his power of the May, 1870. For the next seven years

August 16, 1917.



Hon. Duncan Marshall, Minister of Agriculture for Alberta.

he was engaged in clearing up land and farming operations with his father in Maryborough. In the spring of 1877 he came to British Columbia, taking up land in the New Westminster dis-trict. His present farm was reclaimed from the sea by dyking and under-draining. Mr. Oliver has been en-gaged in agricultural pursuits for the mager in agricultural pursuits for the major portion of the time that he has here in British Columbia, athough he has engaged in general contrading, and operations in connection with steam threshing and sawmill machin-ery as a tide issue. He first entered provincial polities in 1900, represent-ing the District of Delta for ten con-secutive acasions. At the general elec-tion fast coeptember he was returned to represent the Electoral District of Dewdney, and was appointed Minister of Agriculture and Rallways in Noof Agriculture and Railways in No-vember last.

A. MacLachlan, the district repre-sentative in New Liskeard, writes Farm and Dairy that he is now manag-ing a government creamery at that point. He believes that the north country has a great future as a dairy industry where it should be given every encouragement. "I gave the patrons an address on cow testing, handling the dairy cow, taking care of milk, etc., to our patrons and they were very enthusiastic," said Mr. Mac-Lachlan. "Although the factory is not large at present, it will grow quite ra-pidly."



Hon. John Oliver, Minister of Agriculture and Railroads for British Columbia.



August 16, 1917.

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TRABLES BERRET

## FARM AND DAIRY

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## SASKATCHEWAN

#### The Fruits of Co-operation Between the Farmers and the Government Which Have Made Saskatchewan Such a Desirable Province to Live in Are Many. Here Are a Few:

1. The Saskatchewan Cooperative Elevator Company, Limited, is the largest and most successful initial grain handling concern in the world, owned by the organized farmers. The Saskatchewan Government loaned 85 per cent. of the money needed to erect the elevators and guaranteed the company its line of credit, but left the management of the business to the farmers.

2. The Saskatchewan Cooperative Creameries, Limited, is a new company which includes all the cooperative farmers' creameries in Saskatchewan. The Government loans the company up to 75 per cent. of the capital needed to erect new creameries or public cold storage warehouses in connection with its creameries, and guarantees the repayment of its bank loans.

3. The Municipal Hail Insurance Act was passed on the recommendation of the Grain Growers' Association, to indemnify farmers for hail losses. The application of the Act is optional by any municipality. Except in 1916, it has proven very successful.

4. The Farm Loans' Act, provides for long term loans to farmers on the amortization plan with annual payments (covering both interest and principal) less than are now paid for interest alone.

5. The Saskatchewan Government was the first in Canada to adopt a policy of selling live stock to farmers on credit terms with low rates of interest. A Royal Commission is now working on a solution of the live stock marketing problem.

6. Rural telephones are now used by 25,141 farmers. By the end of 1917 there will be 37,000 in use. Favorable laws and reasonable assistance have made this possible.

7. The Farm Implements Act was passed to provide necessary safeguards in the purchase of large implements. The Government through a Royal Commission first investigated conditions and then applied the remedy.

8. Temperance legislation and executive action have succeeded, as far as it is possible for a province to do so, in curtailing the trade in intoxicating liquors.

9. Saskatchewan women, the first in Canada to exercise the franchise, voted for the overthrow of the liquor traffic in Saskatchevan, December 11th, 1916.

10. The Government has made liberal provision-for agricultural education through its College of Agriculture at Saskatoon. Experimental work, teaching and extension work are included in its activities.

If you wish to select a new home in a new country, consider carefully the inducements which Saskatchewan offers.

#### DEPARTMENT OF AGRICULTURE

Regina

Saskatchewan

(18)

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#### Rural Home

"The Farm Paper of Canada's Dairy Farmers" Published Every Thursday by. The Rural Publishing Company, Limited Feterboro and Toronto

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#### CIRCULATION STATEMENT.

UNUVERTION STATEMENT. The paid subscriptions to Farm and Duty approxi-mate 50,000. The actual circulation of each issue, in-cluding copies of the paper sent to subscriptioners where are but slightly in arrears, and sample copies, varies from 30,000 to 22,000 copies. No subscriptions are ac-cepted at less than the full subscription rates. Sworm detailed statements of circulation athe Paper, showing is district the on request.

#### OUR GUARANTEL.

OUR GUARANTER. We guarantee that every advertises in this issues to reliable. We are Fara and Dairy are as carefully edited as the reading columns, and because to protect the second second second second second to readers, we turn away all unercopulous adver-tises. Busic of the second second second the second to the second second second second to the second second second second second the second second second second second to second second second second second the second second second second second the second second second second second second the second the second second

#### The Rural Publishing Company, Ltd. PETER ORO AND TORONTO

"Read not to contradict and to confute, nor to lieve and take for granted, but to weigh and conbelieve and ta

#### The Number in Your Hand

HIS is the second Western Canada Number published by Farm and Dairy. The success of last year's Special Number, in helping to create a greater sympathy between our East ern and Western farmers, decided us to make this an annual feature. Certain conditions have created a real need for such a link between East and West, and it is with the hope that this demand may be in some measure satisfied, that we send out this number.

Western Canada is the country in which the Canadian farmer first really found himself. It was there in the fertile prairie soil that the most powerful farmers' organizations on the continent took root. The same factors that have given us the famous hard wheat of the prairies, have given us hard-headed farmers, who have shown themselves thoroughly capable of managing their own business on a large scale. The growth of the farmers' movement in Ontario has led to an in creased desire for information explaining the success of the farmers' movement in Western Canada and its development in each of the three prairie provinces. A study of the methods by which such success has been achieved cannot fall to be of benefit to the farmers of our older provinces. Much information along this line will be found in this edition of Farm and Dairy.

Each year, also, a certain number of our readers in Ontario, who require more room for working out their plans in farming, sell out their old homesteads and "go West." These prospective settlers are therefore desirious of obtaining accurate information regarding farming conditions in Western Canada. Information from the pen of

#### FARM AND DAIRY

the disinterested easterner is of much greater value to such men than the selling points displayed by a real estate agent or a railway company. Here, too, we desire that our Western special may be of value to our readers.

In order that we may keep in touch with Western farming conditions and thereby maintain Farm and Dairy as the national dairy farmers' paper of Canada, our representatives have traveled to the coast, over all three of the great transcontinental lines; as well as over numerous branch lines, and have thus thoroughly covered the country. Each year we purpose to cover our Western provinces, and each year the results of our studies and observations will be published in an issue such as the one you hold in your hand. Above all else we desire that this issue may be a link be tween the men of the East and their brethren of the West who earn a living from the soil.

#### The Railway Proposals

THE proposal of the Government to national-ize the Canadian Northern Putt and to loan \$7,500,000 to the Grand Trunk system, is not recognized by anyone as a solution of our railway problems. Even Finance Minister White admitted in introducing his measure that the bill was intended to alleviate the present situation and that the final solution would have to be dealt with by a future Parliament.

Among the more conservative elements of both parties, the Government proposals will be regard ed as a long step toward Government ownership. Among the more radical elements, however, and in these are numbered the organized farmers of Canada, the measure now before the House will be regulded as inadequate in the face of a situation that calls for vigorous and fearless action. The nationalization of the Canadian Northern Railway this year will do practically nothing to remove the weakness of the present situation. We will still have the same duplication of tracks in unproductive areas. The lack of Eastern connections will hamper the new government road as it did the old Mackenzie and Mann road. In the nature of things there can be no more cooperation between the roads to render real service to the people than has been the case in the past. Had the recommendations of the Drayton-Ackworth report been followed and the Canadian Northern and the Grand Trunk systems both nationalized and these connected up with the Intercolonial, much deplication of effort could have been avoided, the combined systems would have had splendid connections with both Eastern and Western points, and would have been the most complete railway system in the world. Such a nationalized railroad would have had a good chance of making ends meet financially. If the Canadian Pacific Railway, as well, had been included in the nationalization, maximum economies would have been possible, operating expenses and dividends could have been met and Canadian railroads could have been an asset to the Canadian people. As a result of partial nationalization as proposed, the Government is undertaking the expense of running a line, a great part of which should never have heen cord structed.

#### An Embargo on Wool

VER a year ago the woollen manufacturers O of Canada succeeded in having an embargo placed on Canadian wool, which depressed prices to a point where farmers were compelled to sell at a loss. This embargo was brought on so quietly that farmers knew nothing of it until the market began to drop. We were caught napping and we need to beware lest the manufacturers catch us again unawares. Another embargo is desired. In the Canadian Textile Journal for July the plea is made that such a large

percentage of the Canadian clip is being sold to the United States, that the output of Canadian mills is in danger. The situation can be best remedied, so our contemporary tells us, by another embargo on wool.

It is true that much wool is going across the line. What the Canadian Textile Journal fails to mention, however, is that Canadian mills can buy this wool just as cheaply as the United States mills are doing, and that their manufactured product is being sold at just as good prices. Likewise wages in the textile industry are, if anything, higher in the United States than here. If our mills cannot manufacture in competition with the mills across the line, it must be due to inefficient management, and this can be remedied only by the wool manufacturers themselves. Mr. however, we may judge of the condition of our woollen industry by the dividends that our mills are paying on their capital stock, we should say that they are doing fairly well and are quite able to pay a competitive price for Canadian wool. We know that any farmer would be glad to reap half the interest on his farm investment that the woollen industry is netting its shareholders.

A little history may be of interest. In pre-war days woollen manufacturers enjoyed, as they still do, a high protective tariff on the manufactured. article. Even the British Preference was modified to meet their demands and shut out the British manufacturer. Raw wool on the other hand was placed on the free list. Much foreign wool was imported and Canadian manufacturers showed little interest in the Canadian clip until foreign supplies became scanty. Now, when the Canadian farmer, for the first time in the history of the woollen industry in Canada, is in a position to demand a fair price for his product, the wool-'en manufacturers are said to be importuning the Government to again knock the bottom out of the market with an embargo. The greed of protected corporations is beyond all reason and serves to emphasize anew the need of a powerful farmers" organization to guard our interests.

#### **Big Business**

HE Grain Growers of Western Canada at their next annual meeting, so it is reported, are going to ask for authority to borrow the sum of \$15,000,000, protected by mortgage and bond issues. This request is taken to indicate plans for a widespread extension of the company's activities in grain handling and in cooperative selling throughout the West.

This report indicates the extent of the business now being handled by the farmers of Western Canada. It is big business, but unlike "Big Business" as we have known it in the past, it is not intended to enrich corporations at the expense of the masses, but its benefits will be distributed far and wide among the thousands of cooperating farmers in Western Canada. This is a type of big business that we; as farmers, may well endorse. Ontario farmers have made a start and East and West may some day be uniting in even greater undertakings than those which will be considered at the next meeting of the Grain Growers' Grain Campany. Our success in the East, and therefore the value of the cooperation that we can extend to the West, all depends on the support which Ontario farmers are willing to give to their own' organizations, the United Farmers of Ontario and the United Farmers' Cooperative Company, Limited.

'Corn should be nearly ripe before being put in the silo. Experiments at the North Dakota Experiment Station have shown that corn in the glazed stage contains three times as much dry matter as when tasseled out, and the glazed corn is also more digestible than corn that is less mature.

#### Pr A Talk With Dairy

E have acquired ing butter to tions in Eastern Ca away the chief awa marked increas towards the dairym as well as a desire as possible about i remarkable success ed. As the reason took advantage of while in Calgary re that I could about about the growth t in the manufacture Commissioner C. much interesting in

"The increase tha year in the manufs due entirely," said 1 increased price that cheese this year. been due to world c crease has taken pl crease has taken pi our large cities. Th creameries, such a City Dairy, and th Co. of Edmonton an tral Dairy and Crea Carlyle Dairy Co. found it possible t milk of the summer making purposes. been enabled to pay ter prices for their merly, and this has the supply of milk.

"I expect that we about 1,000,000 lbs. as against 750,000 11 increase of about cheese is sold almost local markets, althe beginning to ship s which in the past has Ontario cheese."

The Creamery When asked what access of Alberta Mr. Marker replied t was its mild flavor texture and low con ture. "We attach a portance to the los moisture," said Mr means less loss in we In salting we use 114 pared with about 3% quality of butter we facturing has grown of the consumers in for such butter. At one time Briti

ported as much as New Zealand butter der that we might f our butter we had t grade of butter that own with or even s Zealand product on t bla market. This we in doing, as now Brit ports very little from the process we have deal, as the style o manufacturing is simi was imported from 1 which they had de shipping butter to Gre our grade of butter is to the demands of the lic in Alberta and I but to the British r I am satisfied that it ter which is bound t

Better Keeping

"One advantage I ter possesses, is that keeping qualities. We a higher pasteurizi than other provinces of our methods are cons of line with the gen mondards set by leading

#### Progress In Alberta Dairving

A Talk With Dairy Commissioner Marker. Alberta Butter Now Controls British Columbia Market. Cheese Trade Growing.

 $\mathbf{E}^{\text{VER}}$  since the dairymen of Alberta In other words, we are going a little have acquired the habit of send. farther along certain lines than it has ing builter to our largest exhibit been considered safe to go. As a re-Ing butter to our largest exhibit been considered sate to go. As a re-tions in Eastern Canada which carries sult we are turning out butter that away the chief awards there has been can be stored for eight, ten or even bons in Eastern canada when a stere as been can be stored for eight, ten or even a marked increase in respect felt twelve months, and come out of stortowards the dairymen of that province, as well as a desire to know as much as possible about the reasons for the remarkable success they have achieved. As the reasons are numerous I took advantage of the opportunity while in Calgary recently to learn all that I could about them, as well as about the growth that is taking place in the manufacture of cheese. Dairy Commissioner C. Marker furnished much interesting information

"The increase that has occurred this year in the manufacture of cheese is due entirely," said Mr. Marker, "to the due entirely, said art. Marker, to the owner the terms in milk and its pro-increased price that has prevailed for es of ferments in milk and its pro-cheese this year. This, in turn, has ducts-the orranized and unorgan-been due to world conditions. The in- ized. Investigators have worked out different been due to world conditions. The in-crease has taken place mainly around our large cities. This year our largest creameries, such as the Edmonton City Dairy, and the Woodland Dairy City Dairy, and the Woodland Dairy Co. of Edwonton and the Calgary Cen-tral Dairy and Creamery Co., and the Carlyle Dairy Co. of Calgary, have found it possible to use the surplus milk of the summer season for cheese-making, purposes. Thus they have hear exceled to see the they have making purposes. Thus they have been enabled to pay their shippers better prices for their surplus than for-merly, and this has tended to increase the supply of milk. "I expect that we will manufacture

about 1,000,000 lbs. of cheese this year as against 750,000 lbs. last year, or an increase of about 33 1-3%. Our cheese is sold almost altogether on our local markets, although we are now beginning to ship some to the coast. which in the past has been supplied by Ontario cheese."

The Creamery Situation. When asked what he attributed the access of Alberta butter to chiefly, Mr. Marker replied that he believed it was its mild flavor and fine or close texture and low content of free moisture. "We attach a good deal of importance to the lower percentage of moisture," said Mr. Marker, "as it means less loss in weight when selling. In salting we use 116% to 2% as com-pared with about 3% in the east. The quality of butter we are now manu-facturing has grown out of the demand of the consumers in British Columbia for such butter

At one time British Columbia im-ported as much as 7,000,000 lbs, of New Zealand butter in a year. In order that we might find a market for our butter we had to manufacture a our butter we had to move that would hold its as one processing of butter that would hold its as one were applied that New said to me, "You are asking me own with or even supplicit of the State of the which they had developed through shipping butter to Great Britain. Thus our grade of butter is adapted not only to the demands of the consuming public in Alberta and British Columbia, but to the British markets as well. I am satisfied that it is a style of butter which is bound to grow in favor.

#### Better Keeping Qualities.

"One advantage I believe our butter possesses, is that it has better keeping qualities. We have adopted a higher pasteurizing temperature than other provinces or states, in fact, that other provinces of states. In fact, new memory, all market replied that our methods are considered to be out last year about 85% of the output was of line with the generally accepted made of pasteurized cream, and that metards set by leading investigators. (Concluded on page 37.)

been considered safe to go. age as good in quality as when it was put in. Of course there is no real why butter should be carried that long, but the fact that our butter can be so kept shows its keeping qualities. and these qualities are given to it during the process of manufacture. Two Important Factors.

"The two outstanding factors that make for keeping quality are low acidity of the cream and high pasteurizing temperature during the process of manufacture. In deciding to favor high temperatures we worked on the basis that there are two known class relative temperatures for different systems that were supposed to be about equal in efficiency. The two chief systems are the continuous and the vat system.

"These comparisons have generally been made on the basis of bacterial count. Since the deterioration of but ter in storage is largely due to the action of unorganized ferments, it appeared to us necessary to employ tem peratures sufficiently high to destroy or at least to make inoperative the majority of the unorganized ferments OF engymos

Careful Tests Conducted.

"Before advocating the use of high temperatures we tested their results thoroughly privately until we felt that we were sure of our ground. It was not, however, until the beginning of last season that our creameries were urged to adopt this method in a large way. Our object was to eliminate fishy flavors and to give the butter improved keeping quality. We knew would have more confidence in our product, and the whole industry be that placed on a better basis. "Were it not for the fact that our

creamery managers, and I might also say our dairy farmers, are an unusually progressive set of men we would not have met with the success that we have in introducing this system. The cost of equipping a creamery so that it can pasteurize its cream runs from \$1,000, in the case of a small factory, to as high as \$10,000 for the larger ones. Naturally our creamery men had to be convinced that it would pay them to make such an investment

#### Great Benefits Derived.

"I believe that the direct benefits derived from the adoption of our present methods are at least ten times greater than the cost involved in sethe indirect benefits that grow out of the indirect benefits that grow out of the increased confidence of the trade and the knowledge that it can feel absolutely safe in bandling our goods may be placed at figures as high as you care to make them." When asked what proportion of the butter in the province was made according to the new method, Mr. Marker replied that



#### 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.

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

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Land lies in one of the best belts of Canada along the TLANG LIES AND NORTHERN ONTARIO RALLWAY, WHINISKAMING AND NORTHERN ONTARIO RALLWAY, WG Ra connections with the G. T. R. C. P. R. C. N. R. and C. G. Rallways, thus bringing the settlers within easy reach of the profitable markets of the Continent and Europe.

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Learn more of this Land of Plenty by sending for free booklets to Geo. W. Lee, Commissioner, and General Agent, North Bay, Ont.

Temiskaming and Northern Ontario Railway Commission

Executive Offices-56 Church Street TORONTO, ONTARIO.

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## Alberta Farmers Find Cooperation in Business Profitable

The Proof of the Pudding That it is paying the Farmers of Alberta to cooperate has been proved in many ways. We not only are often able to buy goods from our own company at much lower prices than we could procure similar goods for elsewhere on better terms. Competing elevator companies, also, handle the farmers' grain on better conditions than they would, but for our presence in the field and live stock buyers pay better prices. Thus tens and hundreds of thousands of dollars are saved by us each year.

The Cooperative Supply Department The farmers of Alberta appreciate the service we are giving them. This is shown by the growth in the volume of the business they are doing through our company. Take our Co-operative Supply Department: It is through this department that we enable Alberta farmers to purchase supplies on the best possible terms. This Department was started in a small way in 1913.14. It grew rapidly. The following year, 1914-15, the Junises it reased to was 400 per cent greater than during the first year. In all \$400,000 worth of goods were handled, not including binder twine. This included 133 car loads of binder twine, 160 cars of flour and feed, 204 cars of posts and 372 cars of coal. During the first 10 months of this year we have handled 1,825 cars of goods, worth \$458,488. Thus we have demonstrated that it is possible for farmers to conduct a big business in general supplies with success.

Live Stock Handled on a Large Scale It used to be hard for our farmers to sell their live stock to advantage. Now we are helping them and they appreciate it. In 1913-14, when we opened our Live Stock Department, we handled up to June 30, 1914, 141 (ars) of stock, or about 11,000 hogs and 6 cars of scheep. During 1914-15, farmers end us 344 cars of live stock, including 27,529 hogs, 897 cattle and 91 sheep. Between August 1, 1915 and August 31st, 1916, there were sold 628 cars, representing 36,224 hogs, 3,545 cattle and 659 sheep. In 100 onlyse this year, there have been handled 1,367 cars, or 56,750 hogs, 10,709 cattle and 2,260 sheep, which were sold for \$2,092,409. This business represents a large saving in expense and better prices to the farmers, and a profit to ourselves. Thus it has been proved that farmers can sell live stock cooperatively and successfully.

Grain Handled with Great Success business that has made our other undertakings possible. The first year we started, 1913, we had 52 elevators; in 1914 the number grew to 79, in 1915 to 87, and in 1916 to 103. This year we will have 143. In 1913-14 our farmers shipped through us 4,119,813 bushels of grain, in 1914-15, we handled 5,149,092, and last year 19,123,486. Year by year, as the farmers of Alberta find ever more clearly the benefits of cooperative shipping they are enabling us to handle for them, a rapidly increasing percentage of the total grain crop of the province. Thus our cooperative handling of the grain crop has proved a great success.

**Cooperative Efforts a Financial Success** Our aim has always been to give our farmer-shareholders and patrons better service, and at less expense than they could obtain elsewhere. Through their loyal cooperation, we have succeeded. This is shown by the growth of our business. In 1913, when our company was organized, we had 3,500 shareholders. To-day we have 15,640. In 1913, our subscribed capital stock was \$360,000. To-day it is \$1,315,500. In 1913 our paid-up capital stock was \$72,000. Now it is \$552,179. Three years ago our assets were \$953,849. On July 31, 1917, they were \$2,580,078. But better even than they; we have not only given the farmers of Alberta better service and enabled them to save and earn many millions of dollars more than they otherwise could, but we have done it on sound business principles, and at a liberal profit to ourselves. In 1915 our net profits on all our operations were \$36,229. Last year they were \$22,484. Thus we have further demonstrated that farmers can both work and stick together in cooperative efforts, and do so at a substantial profit to themselves.

The great cooperative movement among the farmers of Canada is only in its infancy. It has not more than nicely started. As we progress we discover many new lines along which we should advance as opportunity permits. Our success, so far, has been largely due to the fact that we have not hesitated to pay liberal salaries in order that we might secure and retain the services in our business of men of marked ability. The progress made so far has but laid the foundation for future enterprises, the size and scope of which mo one can estimate or foresee. Thus we hope the day is at hand when farmers' sons will no longer leave the farms of Canada to make names for themselves in business in our great cities, but, instead, will identify themselves with our own great undertakings, and thereby assist in making farmers the most prosperous, contented, progressive class of citizens in Canada. In the accomplishment of this ideal we ask for your cooperation.

The Alberta Farmers' Co-operative Elevator Supply Co., Ltd., Calgary, Alta.

## FARM AND DAIRY **Alberta Farmers** Cooperate in Handling Their Own Business

in Alberta have united their forces and now bear testimony that cooperative methods are profitable and beneficial. True coopera-15.640 Farmers tion involves complete cooperation. That is, we must work together not only that we may be enabled to produce larger and better crops, but in order that we may produce those crops at the least possible expense and sell them at the highest possible price. Only in this way can farming be made to yield the profits that it should.

Alberta's Organized Farmers are cooperating in three ways through our BERTA FARMERS' COOPERATE ELEVATOR COMPANY, LIMITED. FIRST, We are uniting through our Cooperative Supply Department in order that by buying only FOR CASH, in LARGE QUANTITES, WHEN THE MARKET IS FAVORABLE we may be enabled to secure our supplies ON THE BEST POSSIBLE TERMS. This is assisting us to greatly reduce our individual expenditures for binder twine, fence posts, wire, agricultural implements coal, lumber for and mony than a three stops for a much secure tural implements, coal, lumber, cement and many other articles we have to purchase for use in our farm operations. In this way we save annually hundreds of thousands of dollars

Sell Live Stock Cooperatively SECOND: Because we are organized we are now enabled, through our Live Stock Department, to sell our cattle, sheep and hogs at less expense and more easily and satisfactorily, as well as at better prices than ever before. Much of our live stock is shipped through our own local associations or through the managers of our own local elevators, to our own live stock salesmen at the large market centres, such as Calgary and Edmonton. These men are paid good salaries and it is to their advantage to obtain for us the best possible prices for our live stock. These same men, when we so desire, will purchase for us stockers and feeders on the lowest possible terms. Being always on the market they know just when and how to buy. Thus we derive the benefit of their wide experience and special opportunities for buying.

Sell Grain Crops Unitedly tem we are selling our grain cooperatively and saving millions of dollars a year by so doing. Some years ago we were largely at the mercy of the private elevator systems. We had to accept their weights, spreads, dockages, etc., and pay their charges for cleaning, binning and handling our grain. Where there were no and pay their charges for cleaning, binning and handling our grain. where there were no competing clevators these dockages and charges were often exorbitant. Now we have 103 elevators of our own throughout Alberta. This year we are erecting 40 more. Now we do our own weighing, cleaning and storing by means of our own paid managers, and thus we are assured of fair treatment at moderate expense. Last year we handled 19,123,486 bushels of grain in our own elevators. No one can tell how many millions of dollars we have saved in this way since the formation of our company. We have proved that CO-OPERATION PAYS LARGE DIVIDENDS.

Cooperation in National Affairs Now that we have proved that cooperation in pays in business and also in provincial affairs it is our desire to unite with the farmers in the other provinces of Canada in National Affairs. We have found, through conducting our own business that many industries in Canada have succeeded in having national laws passed which benefit them through putting a burden on us. This is particularly true in tariff matters as our tariff laws enable our great city and other industries to form trusts and combines and thereby to increase the cost of practically everything we buy. In this way millions of dollars are taken from us each year. When the farmers of Canada unite on the Farmers' National Platform, which we are glad to note that the organized farmers of Ontario have adopted, we will be able to change these

To the farmers of Eastern Canada we send this message, through The Western Canada Number of Farm and Dairy. It is our hope that you will all use every opportunity to unite not only with yourselves, but with us in promoting the cause of the farmers of Canada as a whole in every legitimate way. In no way can we better assist Canada and the Empire. All of you who may be thinking of moving to our Great West we invite to settle in Alberta and become identified with us in the company of which we are so proud.

The Alberta Farmers' Cooperative Elevator Co., Ltd. Calgary, Alta.

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#AITHFULNESS is better than silver and gold and farms and households nay, than all worlds.

## Winning the Wilderness (Continued from last week.)

ried away.

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Young as he was, Little Kemper was the busiest member of the regiment. Life with him was a continual "doing" and he did it joyously and well.

"There's something doing hore ' Thaine hardly had time to think it as the armies came into their places. It was the third day after the regiment had reached Tien-Tsin. Along the Peiho river lay a sandy plain with scant tillage and great stretches of seant illage and great stretches of barren lands. Here and there were squalid villages with now and then a few more pretentious artructures with adobe brick walls and tiled roofs. Everywhere was the decould on of ig-norance and fear, saddening enough, without the Boxer rebellion to inica-sify it with months of dreadful warfare.

As Thaine fell into his place he thought of the Aydelot wheatfields and of the alfalfa that Leigh Shirley's patient judgment had helped to spread over the Cloverdale Ranch. And even over the Cloverdale Ranch. in the face of such big things as he was on his way to meet the conquest of the prairie soil seemed wonderful.

Big things were waiting him now, and his heart throbbed with their bigness as his regiment took its place. was a wonderful company that fell into line and swung up the Pellio river that August afternoon. The world never saw its like before, and may never see it again. Not wonderful in numbers, for there were only sixteen thousand of the allied armies, all told, to pit themselves against an armed force able to line up one hundred and sixteen thousand against them. Not numbers, but varying nationalities, varying races, strange confusion of varying races, strange contaston of tongues, with one common purpose binding all into one body, made the company forming on the banks of the Peiho a wonderful one.

Thaine's regiment was drawn up at an angle with the line, ready to fall into its place among the reserves, and the young Kansan watched the flower of the world's soldiery file along the

In the front were the little brown Japanese Cavalry, Artillery, and In-fantry-men who in battle make dying fantry-men who in halle make dying as much their business as living. Be-sides these were the English forces, the Scotch Highlanders, the Welsh Fugliers, the Royal Artillery, all in best array. Behind them the Indian Empire troops, the Sikh Infantry with a grinkling of Sepoys and the Mount-a Bengalese Lancers. Then followed, end is the solves the Italian marines each in its place, the Italian marines and foot soldiery, the well-groomed French troops from all branches of the military; the stalwart, fair-haired Germans, soldiers to a finish in weight

"O H, that's right next door to and training; the Siberian Cossacks heaven, but I can't go just yet, and the Russian Infantry and Cavalry, There's too much doing here," big, brutal looking men whom women the little buget declared as he hur of any nation might fear. In reserve of any nation might fear. In reserve at the last of the line were the American forces, the Ninth and Fourteenth Regiments of Infantry, the Sixth Cavalry, and F Battery of the Fifth Artillery

So marched the host from Tien-Tsin along the sandy plains, led on by one purpose, to reach the old city of Peking and save the lives of the foreign citizens shut up inside their compoundwhether massacred, or living, starved, and tortured, this allied army then could not know.

The August day was intensely hot, The August day was intensely not, with its hours made grievous by a heavy, humid air, and the sand and thick dust ground and flung up in clouds by sixteen thousand troops, with all the cavalry hoofs and artillery wheels. It was only a type of the ten days that followed, wherein heat and dust and humid air, and thirstburning, maddening thirst-joined together against the brave soldiery fighting not for fortune, nor glory, nor patriotism, but for humanity.

As they tramped away in military order, Thaine Aydelot said to his nearest comrade: "Goodrich, I saw a familiar German

face up in the line." "Friend of yours the Emperor sent out to keep you company?" Goodrich

inquired with a smile. "No, a Kansas joint-keeper named Hans Wyker. What do you suppose put him against the Boxers?"

"Oh, the army is the last resort for me men. It's society's clearing some house," Goodrich replied.

house," Goodrich replied. The speaker was a Harvard man, a cultured gentleman, in civil life a University Professor. The same high purpose was in his service that con-trolled Thaine Aydelot now. "I don't like being at the tailend of this procession," a big German from the Pennaylvania foundries declared, as he truple-a structure shore, under the

the Pennsylvania roundries deciared, as he trudged sturdily along under the blazing sun. The courage in his de-termined face and his huge strength would warrant him a place in the front line anywhere.

'Nor I, Schwoebel," Thaine declared. "I came out with Funston's 'Fighting Twentieth.' I'm used to be-ing called back, not tolled along after the rea" the rear."

"Rock Chalk! Jay Hawk! K U!" roared Schwoebel in a tremendous ellow.

'Rock Chalk! Jay Hawk! K U!" Pennsylvania University man named McLearn followed Schwoebel.

"Rock Chalk! Jay Hawk! K U!" ent down the whole line of infantry. went down the whole has of minancy. The old Kanasa University yell, taken to the Philippines by college men, became the battle cry of the Twentieth Kanasa Volunteers, who when they returned to civil life, left when they returned to find hey lots it there for the American army-and "Rock Chalk! Jay Hawk! K U!" be-came the American watchword and ery of all that "far flung line" march-ing on through dust and heat to res-ing on through dust and heat to rescue the imperilled Christians in a beleagured fortress inside the impregnable city of Peking. "You needn't worry about the rear,

Aydelot. One engagement may whip this line about, end to end, or it may



Alberta Flowers.

scale off all that's in front of us and leave nothing but the rear. All this before we have time to change collars again. We'll let you or Tasker here lead into Peking," an Indiana University man declared. "That's good of you, Binford. Some

Kansas man will be first to carry the flag into Peking. It might as well be Aydelot.'

This from Tasker, a slender young fellow from a Kansas railroad office. fellow from a Kansas railroad once. So they joked as they tramped along. It was nearly midnight when they pitched camp before the little village of Peit-Tsang beside the Peiho. In the dim dawning of the August morning Little Kemper's bugle sounded the morning reveille. Thaine was just dreaming of home and he thought the first bugle note was the call for him up the stairway of the Sunflower Inn. His windows looked out on the Aydelot wheatfields and the grove beyond, and every morning the sunrise across the level eastern The summe across the lower caacture prairie made a picture only the hand of the Infinite could paint. This morn-ing he opened his eyes on a far differ-ent scene. The reveille became a call to arms and the troops fell into line ready for battle.

Before the sun had reached the zen-ith the line was whipped end to end, as Binford of Indiana had said it might In this engagement on the sandy bit. In this class little willings of Peif-Tissing. This little willings of Peif-Tissing. This little will be converdes any the saw the brave little Japanese Howed down like standing grain be-fore the reaper's slokle. He saw the ranks more awiffly up to take the places of the fallen, never wavering nor retreating. rushing to certain death as to places of vantage in a coronal pageantry. The Filipho's Mauser was as deadly as the older style gun of the Boxer. A builet aimed true does a builet's work. But in this battle that raged about Peif-Taang Thaine quickly discovered that plain about the little village of Peit-Tsang Thaine quickly discovered that this was no fight in a Filipino jungle. this was no nght in a rllipino juligie. Here was real war, as big and terrible above the campaigns **he** had known in Luzon as the purpose in it was big above loyalty to the flag and exten-sion of American dominion and ideals.

When the thing was ended with the routing of the Boxer forces, of the sixteen thousand that went into battle tithe of one-tenth of their number lay dead on the plains—sixteen hun-dred men, the cost of conquest in a far wilderness. The heaviest toll fell on the brave Japanese who had led in the attack.

Thaine Aydelot did not dream of home that night. He slept on his arms the heavy sleep of utter wearlarms the heavy sleep of utter wear-pass, which Little Kemper's bugie call broke at three o'clock-the next morn-ing. Before the August sun had crawled over the eastern horizon the armies were swinzing up the Pelbo river toward Peking. The American troops were leading the column now, as Thaine Aydelot had wished they might, and in all that followed after the day at PeltTang the Stars and Sirings brace token of a brave neothe day at rest-isang the Stars and Stripes, brave token of a brave peo-ple, floated above the front lines of soldiery, even to the end of the struggle.

It was high noon above the Orient, It was high noon above the Orient, where the Peiko flows beside the populous town of Yang-Taun. The Box-er army routed by the battle of Peit-Tsang had massed its front before the town, a formidable array in numbers, equipment, and frenzied engerness to equipment, and frenzied cagerness to halk here and forever the poor little line of foreign soldlers creeping in up-on it from the sea. The Boxers knew that they could match the fixthing strength of this line with quadruple force. The troops coming toward them had marched twelve miles under the storest thest of a hundred dogram. the August heat of a hundred degrees, through sand and alkali dust, in the (Continued on page 27.)

August 16,

THE UP

R which are the mark EACHING

When we r on Mount Man the highest p but a short di and not as di which we had There was one had to be sur we reached its summit was m far teeper th Nothing daunte when we reach sinking hearts still higher pot Then courage knew we could may was grea saw a great seemed we wou reaching the en

Our guide ahead and abo encouraging us ing us not to ta fear of going of tous depths; any was the easier times coming b difficult most pointing out the lost it. Very c be the memory of a mighty peak against the sky warned, advised, to give a helping a moment would we dream of his

When at last est peak, and s panorama stretcl as far as the e knew then it wa great exertion an

When we w thought came to sense of realizat typical of life the been. That sun towards which G of us to strive, h the setbacks, diff agements. God guide and leader encouraging, and ready to come to comfort when th cult. When the exceeding great all the struggle if we fail, exceed ward of the know done our best to mark.-I. H. N.

A Western " E

Miss R. M. McKe

WHILE attend Ont., which these columns a was my good forth ern Canada "Inst meeting commence the room and wa by many present. til I was informed til I was mualker, Elizabeth Walker, in the west but old home near Ki that Miss Walke worker in the wes anxious to attend in order to see h being carried on.

August 16, 1917

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(23)

### THE UPWARD LOOK

#### Our Vision

R EACHING forth unto those things which are before, 1 press toward the mark.—Phil. 3: 13-14. When we reached Summit House,

When we reached summit House, on Mount Mansfield, we were shown the highest peak of all. It seemed but a short distance from the hotel, and not as difficult a climb as that which we had already accomplished. Which we had already accompliance, There was one rocky pinnacle, which had to be surmounted first. When we reached its point we realized the far .teeper than we had expected. Nothing daunted we pressed on, but when we reached the next point, with sinking hearts we saw, far ahead, a still higher point, with steep ascent. Then courage almost failed, but we knew we could not give up. Our dismay was great, when suddenly we saw a great mbyss, into which it seemed we would have to go, but on feaching the edge we saw a narrow neck of rock, over which we passed.

Our guide was sometimes away ahead and above on the next peak, encouraging us to go on; often warning us not to take a certain turn for fear of going over into the precipi-tous depths; again, advising which was the easiest way to go; many times coming back to help over the most difficult places; sometimes pointing out the trail, when we had pointing out the trail, when we had lost it. Very clear and distinct will be the memory of him, standing up on a mighty peak and clearly outlined against the sky, as he encouraged, warned, advised, or came down to us to give a belping hand. But never for a moment would be a moment would he dream or would we dream of his deserting us.

When at last we reached the high-When at tast we reached the night est peak, and saw the marvellous panorama stretching out on all sides, as far as the eye would reach, we knew then it was richly worth all the great exertion and fatigue.

When we were descending the thought came to me, with a strong sense of realization of how truly typical of life that whole incident had been. That summit is the ideal towards which God wishes each one of us to strive, however great may be of us to strive, however great may be the setbacks, difficultions and discour-agements. God Himself is even our guide and leader, directing, warning, encoursging, and ever and always ready to come to our side to belp and comfort when the way is most diffi-cult. When the summit is obtained, exceeding great is the reward after all the atruzule and andparger. Even all the struggle and endeavor. Even

#### A Western "Instituter" in the Fast

Miss R. M. McKee, Household Editor.

HILE attending the Women's Institute meeting at King, Ont., which was reported in these columns a few weeks ago, it was my good fortune to meet a West-ern Canada "Instituter." Before the meeting commenced a lady came into

were being served Miss Walker and had a pleasant chat, although a short one, as she had to leave rather hurriedly.

Miss Walker's home is near Hanley Sask., which is a small town. She lives on a homestead not far from the town, and has never experienced living away back, miles from a railway ing away back, miles from a railway centre. I asked Mias Walker if also preferred living in the west rather than the east. "Well," she said, "I just came back to see if I did. I like the east and I like the east, so am soing to try and find out which is best bid time. this time. I wouldn't have come east this summer, but we had a good crop of potatoes last year, so I took ad-vantage of it."

The farm women's organizations in the west are founded on similar prin-ciples to those of our Women's Incalled Home Economics Societies and asskatchewan, Homemakers' Clubs. In saskatchewan, Homemakers Chuos, (While I do not object to the old standby, "Women's Institutes," it seems to me that the Saskatchewan women have conceived an ideal name for their organizations-for the high-est calling of the wife and mother is that of homemaking.)

In continuing our conversation, Miss Walker said: "Our club was formed four years ago. We did not know anything about the work of such a club, but the first year we had 60 members and up to the present have had a very and up to the present nave nut a very successful organization. The great-est work we are doing is to bring all the nationalities together. We have all kinds of nationalities and ages. Some of the foreigners are Austrians, others are Germans from the United States and others Scandinavians. The Austrians are a little backward as the majority of the women do not know the English language. Some of them, however, are getting along splendidly and one Austrian woman gave a paper at one of our provincial conventions. nt

at one of our provincial conventions. "We instituted a rest room shortly after we organized, but if failed, as we could not pay the rent of \$10 a month. We have started it up again, however, and as long as we are doing patriotic work, the room will be given to us free of rent. We do not have anyone in charge of our rest room, that means expense and we leave it open to the public. It is furnished very simply and nothing of value is left in it. Last year we served ten-cent teas in the rest room on Saturdays, which brought us in a little cash.

days, which brought us in a little cash. "Of course our work is mainly pat-rioffe at present," continued Miss-Walker, "but I think it must be much easter for Institutes in the east to do patriofic work than for our orcaniza-tions as we have so many different nationalities."

all the struggle and endeavor. Even nationalities." if we fail, exceeding great is the re-ward of the knowledge that we have done our best to press towards the library, as they have not been able to mark.-I. H. N. The library is in the rest room and the library is in the rest room and the hooks The library is in the rest room and at present they are giving the books out on Saturdays. The Saskatchewan College of Agriculture sent out eir-culating libraries, but these did not prove satisfactory. The College has now agreed to assist in establishing a permanent library by donating to ward it the same amount as is paid by the Institute.

the Institute. The Homemakers' Clubs of Saskat-chewan hold their anamal conventions at. the College of Asriculture instan-katoon and Miss Walker represent that she would be absent from the one which was held this summer. The College of Asriculture pays the ex-penses of one delocate from each elub to this convention and lobs of the womeeting commenced a lady came into kntoon and Miss Walker resretted that she would be absent from the one by mogeni. It was not long un-which was held this summer. The comment of the second state of the second state of the second state of the second state of the second line the west has a solution at the second state of the old home near Siras visiting at her to this convention and lots of the wo-old home near Siras visiting at her to this convention and lots of the wo-old home near Siras visiting at her to this convention and lots of the wo-old home near Siras visiting at her to this convention and lots of the wo-old home near Siras visiting at her to the second state of the second that Miss Walker, while is in the second state of the second and/out the west, and this her was vention. "So you see," concluded in order to see how their work was not a 'dressed up' convention, but a being carried on. While refreshments convention of homesteaders."



E. N. BAKER, Principal.

**DEAL WITH** Farm & Dairy's Advertisers (20)



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ADVERTISE In these popular col-umns, which others find so profitable-costs you only \$1.68 an inch.

#### FARM AND DAIRY

Flowers: In Story and Contest

"Oh, come to my party, for welcome

A large bow of pink kindly pin on

For this is a party whose color is

If possible have the invitations de-

it is a rose party the games should

livered, tying each note with pink rib-bon to the stem of a pretty pink rose.

all partake of this name in some way, so for the first you might have hoops

wound with pink paper. The "rising toss" may be used for this, the hoops

wound with pink paper. This game is

wound with pink paper. This game is simple to play and requires only the rings of different sizes and the stake. The girls stand some little distance from the glake and try throwing the rings over it, the large ring counting five, the next smaller 10, and the last 15. The score can be set at any num-ber desired, and a next sum run-

ber desired, and a prize may be awarded if liked. "Drop the rose may be played instead of drop the hand-

kerchief, a long-stemmed rose being used. Pink bean bags will also add

to the fun for the old-time game of

centre of the table a large Jack Hor-ner pie in the form of a big pink rose,

made of crepe paper, and from the pie made of crepe paper, and from the pre-have pink ribbons run to each guest's place. The pie should contain some dainty little gift for each guest, tiny boxes filled with candy with rose

decorations serving nicely for this

A Flower Romance.

Pass to each of the guests a tiny flower pot, which may be purchased at any of the department stores or

made at home from red paper-a long

For the refreshments provide in the

I I will expect you exactly at three;

the following:

rose.'

this name.

purpose.

And

you'll be,

your clothes.

gathering would be a rose party, and the invitations might

ALL Something every person has?-

Tullps. 19. Follows disappointment in love? AMUSEMENTS # -Bleeding heart.

20. A fortune seeker?-Marigold.

#### F'aral Love Story.

The answers to these questions are PRETTY idea for the summer the names of flowers:

- 1. The girl's name and the color of
- her hatr?—Marigold. 2. The color of her eyes?—Violet. 3. Her brother's name and an adjective that just describes her? Sweet William.
- 4. Her brother's favorite musical in-strument?-Trumpet.
- 5. At what time did he awaken his father with it?—Four o'clock. 6. With what did her father punish
- him?-Golden rod.
- What did the boy do?—Balsam. What office in the Presbyterian Church did her father fill?— 8 Elder.
- 9. Being a farmer, what was his occupation in spring?--Plantain. Her lover's name and what did he write it with?--Jonquil.
- 11. What, being single, he often lost?
- Bachelor's buttons. What he did when he proposed?
- -Aster Aster.
   13. What ghastly trophy did he lay at her feet?—Bleeding-heart.
- What did she give him in return?
- Heart's-ease. 15. What did she say to him?---
- Johnny, jump up. 16. What flower did he cultivate?--Tulip.
- 17. To whom did she refer him?--Poppy.
- 18. What minister married them?---Jack-in-the-pulpit.
- Jack-in-the-pulpit. 19. What was wished with regard to perty. their happiness?—Live forever. A 20. What did she say when he went necess away?—Forget-me-not. For the
- 21. With what did she punish her children?—Lady's slipper.
- 22. What hallowed their last years? -Sweet peas.

#### Vegetable contest.

#### A wise man?-Sage.

- Wins?—Beets. In history?—Dates. A kind of shot?—Grape.
- Couples?-Pears.
- A labyrinth?-Maize.
- Letters?-Peas. Antics?-Capers
- Predicaments?—Pickles. Relation to a swell?—Pumpkin.
- 11. Part of a river?-Currant.

#### Another Contest.

#### Each answer is the name of a vine.

- sweet tomboy?-Climbing rose. Held Saturday nights at summer
- hotels?—Hops. Spelled with two letters?—Ivy. A universal necessity?—Money.
- A universal necessity?--Money. Where to get brass instruments?---Trumpet vine. What should a Hollander smoke? --Dutchman's pipe. A common lot?--Matrimony. A beautiful sumple?-\_\_Mooning.
- beautiful sunrise? Morning A glory.

#### A Contributor Passes Away

UR readers will learn with much Our readers will learn with much regret that Miss Lillian Crum-my, Toledo, Ont., passed to her reward on July 16th. For several years Miss Crumny has been con-ducting the Cook's Corner in our household department, and many of Our Women Folk have found her recipage and suggestious marcinal and recipes and suggestions practical and recipes and suggestions practices and helpful. She was an invalid for many months, and on different occasions was too weak to write her contribu-tion for Farm and Dairy. Her life was a modest, noble one, and she left many, many friends.

Hints for Jelly-makers O the unitiated, and even to those who have had considerable ex-Who have had considerable ex-perience, putting the 'jell' into jelly is not always an easy proposi-tion. Time was when the making of jelly was largely a matter of guess work and we vere on the qui vive un-til our jelly had reached the stage where it would 'jell.' There are a few fundamental principles, however, with which tolly makers should make few fundamental principles, nowver, with which jelly makers should make themselves familiar, which do away with guess work. One is that the fruit should be firm but not over-The substance in fruit which ripe. has the jellying property is pectin, and it is contained in largest quantities in under-ripe fruit. In order to find out if our fruit has the necessary pectin the alcohol test is now being widely recommended. This test is a simple process

Mix with a little hot fruit juice to which the sugar has not been added; which the sugar has not been added, an equal quantity of ethyl or grain alcohol. If pectin is present in suf-ficient quantities, the juice will go into a solid gelatinous mass which can be lifted on a spoon. If the pectin is not present, this necessary ingredient should be supplied. This can some-times be done by adding the juice of another fruit, such as apples or the inner peels of oranges and lemons. To make use of the latter fruits, remove carefully the yellow outer skin, then remove the inner skin from the juicy portion and put this through a food chopper. Soak it in sufficient water to cover for several hours, then cook slowly for three or four hours and drain. This extraction is par-ticularly rich in pectin and can be added to a fruit juice lacking this pro-

certain amount of acid is also necessary in fruit juice to make it jell. For this reason some fruits, like raspberries, will not make good jelly alone. Lemon juice or rhubarb added will supply the deficiency. Fruit Juice should taste as sour as tart apples be-fore it can be made into first-class jelly. Crab apples form an excellent basis for all kinds of jellies, and that is why they are often combined with the non-acid fruits in jelly making. The best fruits for jelly are currants, apples, crab apples, quince, grapes, blackberries, raspberries and peaches. A combination of strawberries and

A combination of statute the statute of the statute that sugar causes the juice to "jell" that sugar causes the junce to just has been the reason for this excessive use of what is now a bigh-priced com-modity. Too little sugar makes a tonch ielly, too much sugar makes a soft jelly. About three-quarters of a cup of sugar to one of fulce is a good proportion, and if the sugar is heated in the oven before adding to the juiwill shorten the time of cooking it and give a better-colored jelly. test whether or not the jelly has cooked long enough, try boiling it after sugar has been added until- it reaches the point at which the boiling mass jellies as a portion of it is allowed to drip from the stirring spoon.

#### How the Disaster Occurred.

A gentleman in Cincinnati employs two negroes to work on his rather extensive gardens, which he personally oversees. One morning Sam did not appear.

"Where is Sam, George?" he asked. "In de hospital, sah." "In the hospital? Why, how in the world did that happen?"

"Weil, Sam he been a tellin' me ev'y mo'nin' foh ten yeahs, he gwine to lick his wife 'cause o' her naggin'." "Well?"

"Well yestiddy, she done ovahheah him. Da's all."

August 16, 19

## Wester

#### Mrs.

HAT a farm tremely n drum, has mon idea of man There are plent who are prepared lant opinion and the pleasures, co and luxuries of th pared with the liv



#### A Youthful Po The flustration Waterman, Peterb Waterman, Peterh is evidently consis-the White Wyan

And yet thes satisfied with the community in whi with a feeling of p girls and young gone to find or n "west." Perhaps the mental attitud and country woma the cause similar. home and life inter the city, does not terests of the worm fails to put the circ life in their proper same holds true o woman in her opin woman's tife. The eastern women bu west is the home and that their jo heart-interests are know that despite which sometimes an ships, there are o sures and interest balance even. Por understand just ho until they have ha the argument revolu of home and home A great many of

come to farms in S as brides and usual home to make. We of a bachelor's resid (regardless of its of mensions), and by mon usage, the sam a "house" when he home to it. In trans western life has for interest. A picture shack might be in variety is too great

strip and a round pasted together. In these pots should be tucked a list

- 1. What the father said to his son in the morning?-Johnny, jump
- 2. A bird that rises early and an im-plement that makes the horses go?-Larkspur.
- A lover's farewell to his sweet-beart?-Forgetme-not.
  Fragrant letters?-Sweet peas.

- measured in a second?-Buttercup.
- My first wears my second on his head?—Cock's-comb.
- tail.
- Hon.
- 12. What Cinderella should have ad-
- What Cholerena should have advected average of the second state of the se
- 15. What an unmarried man often
- hacks?-Bachelor's button. A church official?-Elder. A tattered songster?--Ragged 17.

Robin.

- descriptions that will fit certain well-known flowers. Attached to the pot should be a pencil on a string to enable each player to fill the list. Here is a list that may be extended as you wish:

- 5. The color of a horse?—Sorrel. 6. My first is made in #a dairy and
- 8. One end of the family pet?-Cat-

#### Western Farm Women, Enthusiastic and Happy

#### Mrs. F. H. Stewart, Humboldt District, Saskatchewan.

HAT a farm woman's life is extremely monotonous and hum-drum, has long been the com-mon idea of many of her city sisters. There are plenty of women on the farms of castern Canada, however, who are prepared to refute this preva-lant online and work the site of the site of the site ant online and work the site of the sit ant opinion and point with pride to the pleasures, conveniences, comforts and luxuries of their positions, as com-pared with the lives of many city wom-



#### A Youthful Poultry Enthusiast.

The Illustration shows Master Earl Waterman, Peterboro Co., Ont. Earl is evidently considerably interested in the White Wyandotte type of fowl.

And yet these women who are community in which they live, think with a feeling of pity of their friends, with a feeing of pity of their friends, girls and young women, who have some to find or make homes in the "west." Perhaps if we could analyze the mental attitude of both the city and country woman, we would find the cause similar. The woman whome here and life intersent on women in the home and life interests are centred in the city, does not understand the in-terests of the woman on the farm and terests of the woman on the farm and fails to put the circumstances of rural life in their proper perspective. The same holds true of the castern farm woman in her opinion of the western womans life. The truth is that could eastern women but realize that the west is the home of western women and that their joys, pleasures and heart-interests are there, they would know that despite the inconveniences which sometimes amount to real hardwhich sometimes amount to real hard-ships, there are compensating pleasures and interests which keep the balance even. Possibly no one can understand just how this works out, until they have had experience, but the argument revolves around the fact

the argument revolves around the fact of home and home interests. A great many of the women who come to farms in Saskatchewan come as brides and usually with the whole home to make. We commonly speak of a bachelor's residence as a "shack" (regardless of its construction or di-(regardless of its construction or di-mensions), and by courtesy of com-mon usage, the same is spoken of as a 'house' when he brings his bride home to it. In transforming the shack into the house, many a woman new to western life has found her first real interest. A picture of a bachelor's shack might be interesting, but the Yanlety is to great for any one picvariety is too great for any one pic-

ture to generalize. They have all the individuality of the bachelors them-selves. Some are carefully kept and comfortable homes, others are quite the reverse. But even the best of them lack a thousand touches which can be given only by the housewife who takes pride in her home. Whewho takes pride in her home. Whe-ther the house be large or small, the original shack, hurriedly built when the land was first obtained, or a new dwelling designed, according to the means of the young farmer who ex-pects soon to bring home his bride, she will find broad scope of her initiative and inventive genius. Do not pity her for the hardships she must endure. She would scorn your sympathy, for those are truly the best days of life, when out of chaos she is strugging to evolve a home.

Of course, whether the house be large or small, there is a certain amount of routine work to be done in amount of Fourine work to be done in it, which occupies a woman's time for a good part of the day. Many are the makeshifts with which she has to do, in the way of utensils, etc., which eastern women would think hardships, but which western farm women seem to take as a matter of course. This condition is being overcome as their condition is being overcome as their farm business develops and demands the best equipment. Many of the western farm homes are being equip-ped with every possible labor-aaving device. This is necessary, for it is very difficult to get help with the housework, especially so at the busy times during seeding, harvesting and threshing. threshing.

#### Extending Hospitality.

Let us refer again to those days Let us rever again to those days when the young couple are moulding the home. If the girl is of the kind that "makes good" (and most of them are), she well, in an amazingly short time, transform her surroundings into the neatest and coziest state possible under her particular circumstances. Then a new problem is introduced— Inen a new problem is introduced-the extending of hospitality to the new friends she has made and her new neighbors. In the west she must learn that neighbor has a broader meaning than in the east-something and the meaning trught by the par-able of Hospitality and the main the point be the Good Samarian. It may not be the able of the Good Samarhan. It may not be the simplest problem to make a dinner, prepared for two, suddenly expand into a meal for half a dozen-





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the farmer. A combination machine -it will cut and deliver green cora -it will cut and deliver green corn into the highest silo or dry straw or hay into the mow. 12-inch throat, rolls ensect cuing vertice. Cas charge cut whice out stepping. Cas be found which a constraints in many constraints and the cut in the many constraints and the cut in the found balance. Bieci fan case.



men who have fluxed of trainged all morning, fostering a true western ap-petite. Or it may be just a trifle em-barrassing at first when benighted neighbors drop in late for a night's shelter, and a "shake-down" has to be snelter, and a shake-down has to be haatdy arranged. But she soon catches the prevalent spirit of hospi-tafty and is groud, if out of these in-cidents, which in themselves add a lit-tle color to her life, she obtains a reputation for "preparedness."

In fact, preparedness in supplies for pantry is always an interesting dem. The average farm has no her corner grocery. She must learn to plan far ahead. The home products have to be preserve, and advantage taken of the opportunities to get taken of things in their season. In some parts of Saskatchewan she may get some fruits, such raspberries, saskatoons and wild cherries, but usually she must order im-ported fruits. Perhaps late in the fall the farmers of the community will get a carload of eastern apples for winter use, and you may be sure when once they get to their destination they are not allowed to spoil. The western children seem always hungry for many of them have apples. h. Many of them have an a fruit tree and can hardly understand how apples grow. They cannot imagine apples being fed to pigs or allowed to waste on the

ground, as often occurs in the east. Partly as a source of supply and partly for the wholesome pleasure of labor rewarded with growth, the wess-ern woman, if she is wise, plans a gar-den. Much of the work in it in the spring will fail to her, for spring is a pring to the source but it measures. ground, as often occurs in the east ush time for the men. But it pays well to get away from her household duties a little while when she can hold duties a little while while when and find a new interest in the open air. From the fertile soil she is almost sure of return. Of course, she most sure of return ;. has not a garden, as gardens are un-derstood in the eastern part of Cana-No fruit trees, no row of small fruits and berries, no beds of peren-nials all handed down ready-made for Perhaps after a few years of care she may have some of these, but from the first she can get luxuriant from the first sine can get fusthand growth from the seeds site sows, vego-tables to supply her table in the sum-mer and to stock the cellar for winer, and flowers for pleasure. Of these latter she need never lack of wild ones, either, from the time the little ane-mone pops up beside the snow bank in the early spring till the last wild

rose is nipped by frost in the fall. Pleasure in Poultry Raising.

Another outdoor interest almo at av ery farm woman in the west has is the raising of poultry. Probably on the western farm there are many of the same difficulties encountered by the amateur poultry raiser as else where. Perhaps with less accommodation and so many natural enemies, the disappointmants are even more common, 1 ut there is in spite of every discouragement, a pleasure to most women in raising a flock of chickens,

turkeys, ducks or geese. These, then, are some of the sources from which the women find occupation for their hands and minds and so Rut we keep their hearts contented. omitted that source which is fullest and gives most satisfaction, to every true woman, whether she is of city or farm, east or west-that is her own children. Although this heart-interest is common to all, yet, as in so many other things, the western woman has her own problems to solve. woman has her own promems to solve. They are all very real to her. From the moment she begins to plan and arrange for her first hope, she has much to endure, risks to take for her-reals and her below self and her babe, but all of these seem only to make her life the fuller Not that she must or and happier. should take such risks in maternity, as many western women have. Very "No. We're si generally in the last few years the the same money."

especially if the added numbers are opinion has spread that greater com men who have ridden or tramped all fort, care and assurance should be opinion has spread that greater com-fort, care and assurance should be given the mothers. By far the ma-jority of even mere men begin to realize the necessity of local hospitals, and these are becoming more common each year. Or, failing the hospital, a trained nurse or a doctor is often re-tained for a settlement or municipal-ity. With the safe beginning, however, the mother's task is only started. She must in many cases be her chil dren's medical adviser, nurse, playmate dren's medical adviser, surse, paymate and teacher for many years. It is usefess to attempt to enlarge upon her experiences. Sufficient to say that she is happy if she succeds in rearing boys and girls, strong physically, resourceful mentally, with the seeds of a moral character, such as comes good citizens, firmly implanted within them. Nor are western women ashamed of the progeny they are rearing. The children may lack the organized playground, the school may distant or over bad roads, making it impossible to begin at an early age there may be few chances for the chil dren to mingle socially, but there is a rigorous climate which develops bone and brawn, the whole trend of the western farm life tends to initiative and originality, and the wholesome-ness of the surroundings all tend to sturdy morals. These might develop a crude character were it not for the influence, softening and uplifting, which the mother exerts

#### Her Social Interests.

The western farm woman has other interests which, although they do not centre in the home, sometimes fill a large place in her life. These are the social movements with which she identifies herself. There is usually a church service held within easy driving distance at the school-house, driving distance at the scholardary which is the common meeting place. The church in the west is in no way different from the church in the east in that it requires the support of the women. When Ladies' Aids are organized, they find the fullest scope for a'l their endeavors. These also make source of social intercourse.

It is now almost as common to find a local branch of the Grain Growers' Association in the community as to find a church organization. In the former movement, as in the church work, the women have their own par-ticular design. ticular section, as well as full right to take part in any matter of interest which comes before the organized farmers

A new sphere of interest has been opened up to the women of Saskat-che an in extending to them the franchise. But this is a new chapter and as yet the page is almost blank, so it must be written later.

In the summer almost every com In the summer annost every com-munity has its picnic or aports' day, and on 'hat day of the year, if on no other, one is sure to meet all her neighbors. People come for many neighbors. People come for many miles to enjoy the sports and "see people." Of course, the women of each community vie with one another in having well-filled picnic tables.

Automobiles are to some extent do ing much to bridge the long distances ch are inevitable in a new country. Many a farm woman now has the op portunity to get away for "breathing spells," which, with horses to drive, was often impossible. She can do her trading and shopping with much more comfort, and she can also visit with friends who live at quite a distance and who, before cars became common, were inaccessible.

These ideas may serve to show why, even though our province is new and presents the difficulties of pioneer life, yet our women are not only satisfied with, but enthusiastic over, the homes they are creating.

"Are you economizing at your house?"

"No. We're simply eating less for

#### Fireless Cooker Canning

NE of the most trying tasks we housewives have to perform in the summer is working over a hot fire in a hot kitchen, canning fruit and vegetables. Those of us who are fortunate enough to have a fireless cooker, however, may lighten this task considerably by making use of our cooker in the canning busines Here is what a writer in Farm and Fireside has to say about her experiences in canning: "Our first trial was with green peas

"e canned a few quaits in the fireless cooker and irapatiently waited for re-sults. A week or two passed, and we found no cans opening. We then can-ned string-beans, Lima beans, beets, peas, tomatoes, corn and other vege-tables. Later, when the time came to eat them, we found all the vegetables excellent

The vegetables should be prepared and placed in the jars as indicated be-low. The jars should be put in a fireless cooker vessel. Fill the vessel with hot water. Place it on the stove, and heat the water until it boils vig-orously. Heat a fireless cooker radiator until paper will brown upon it. Place the radiator in the fireless cook-Set the vessel containing the jars on the radiator while the water in the vessel is boiling. Put the cover on the cooker, and leave it about 12 bourg

We think the flavor of beans, peas nd asparagus is improved by blanch Place them in an open kettle, ing. ing. Place them in an open settle, boil for 10 minutes, and drain off the water. Gather the vegetables fresh from the garden. They should not be used when ripe, but should be gathered green, just as if they were to be used on the table. String-beans should be cut, not broken, washed and blanched. Lima beans, peas and asparagus should be washed and blanched. Pack them solidly in the jars. Fill the jars to overflowing with hot water. Cap the jars, and place them in the fireless cooker vessel, and proceed as nreless cooker vessel, and proceed as directed above. Beets, to make them tender, should be boiled 60 minutes in the fireless cooker. Carefully re-move the skins after boiling. Pack the beets in jars. Fill the jars with hot water. Cap the jars, and place in Pumpkin the cooker vessel as above. should be peeled and cut in inch cubes. should be peeted and cut in incr cubes. Pack the cubes in the jars. Fill the jars with cold water. Cap the jars and heat them in the cooker vessel. Squash should be baked until soft. While it is hot scrape from shell into jars. Cap the jars and heat for the cooker. Spin ach should be washed and then boiled about two minutes. Pack in the jars. Fill the jars with hot water, and heat to boiling point in the cooker vessel.

Corn should be used before it is too Corn should be used before it is do old. Run a sharp knike down each row of kernels. Scrape the pulp into jars. Pack the pulp in the jars to within one inch of the top. Fill the within one inch of the top. Fill the jars with water to within one-half inch of the top. Be sure to have the water Add soak to the bottom of the jar. one teaspoonful of salt and one teaspoonful of sugar to each pint of water Cap the jars, and heat for the ar. Our corn canned by this meused cooker. thod almost a year ago can scarcely be told from fresh corn. Sweet potabe told from freen corn. sweet pola-toes should be washed and packed in jars. Fill the jars with cold water. Cap the jars, and heat them for the cooker. Tomatoes have the finest flavor when canned by this method. They may be canned whole or otherwise Peel the tomatoes by pouring boiling water over them until the skins begin to slip. Plungs the tomatoes into cold water, and quickly remove the skins. Pack the peeled tomatoes in jars. Mash some tomatoes, and fill the jars with tomato-juice. Add a tea-spoonful of sail to each quart of to-matoes. Cap the jars, and heat them for the cooker. "All kinds of fruit may be canned in

#### August 16,

the fireless cos its shape be more of the i fruit than wi method. The its shape ed and prepar ning. Instoad a kettle, put i a few times in jar. Have pl Take the requ put it in a pit boiling water o is full. Do no jar, add boilin is full. Cap th cooker wit and leave for o

#### Winning

(Continue heavy humid a odors. They h the night before since daydawn. slaughter here then rush back of Peking with age that the A World had falle the death of en Empire would be

At noon the b ed. In the swin Thaine Aydelot surrounded by Kemper dashed "Here's where do their work,"

Kansas ment "With a few h ton to help." Goe "And a Hoosie

ture," Binford ad "Yes, yes, with Ouakers and the Schwoebel roare on the shoulder.

Men think of hattle breaks, but less bravely beca ed the moment b nine was in

battle lines. In t first onslaught h things confusedly vividly. He thou and her childish Quippi in Chinaand the purple n of his mother as spring morning w listing for the thought of his fat known fear in hi words .

'As thy days so be.

And keenly he Carey, somewhere behind him. The with white hair, moonbeams, as he Manila garden, and

"You must learn You must know w manity means. Yo the opportunity to opportunity is hur now out of the Uni "It is here, the murmured. "Oh, G

soldier for Thy set He did not pray for ger and death;

he to serve and in that lesson was learned instant's longing fo the battle storm bu think any more, he useless to picture t

Nothing counts in results are shown. fighting did not ce Valley Forge, nor Erie, nor Buena Vist Shiloh, San Juan jungle in Luzon did

#### August 16, 1917.

the fireless cooker. The fruit will hold stream out over greater heroes than the inverses cooker: Ine trut win norm are the interest of the plains been more of the true flavor of the fresh Pelho river before Yang-Tam, fruit fhan when canned by the old At last the fring ceased, the method. The fruit should be select lifted above the field; the ed and prepared as for ordinary canning. Instead of putting the fruit in a kettle, put it in jars. Shake down a few times in order to pack it in the ning a rew times in order to pace it in the jar. Have plenty of boiling water. Take the required amount of sugar, put it in a pitcher, and pour a little boiling water over it. Pour the syrup over the fruit in the jar until the jar. Do not use ico much water at first. If the syrup does not fill the at hist. If the symp does not the the jar, add boiling water until the jar is full. Cap the jar, place in the fire-less cooker without a beated radiator, and leave for one or two hours."

#### Winning the Wilderness

(Continued from page 22.) heavy humid air saturated with evil odors. They had had no food since the night before, nor a drink of water the hight better, her a drink of water since daydawn. Joyful would it be to slaughter here the entire band and then rush back to the heary old City then rush back to the heary old City of Peking with the triumphant mess-age that the Allied Armies of the World had fallen before China. Then the death of every foreigner in the Empire would be certain. At noon the battle lines were form-

ed. In the swinging into place as Thaine Aydelot stood beside Tasker, surrounded by his comrades, Little Kemper dashed by him.

"Here's where the corn-fed Kansans do their work," he said gaily to the Kansas ment

"With a few bean-eaters from Boston to help," Goodrich responded. "And a Hoosier to give them cul-

ture," Binford added.

"Yes, yes, with the William Penn Quakers and the Pennsylvania Dutch." Schwoebel roared, striking McLearn

Men think of many things as the battle breaks, but never do they fight less bravely because they have laugh-ed the moment before.

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hnine was in the very front of the battle lines. In the pause before the first onslaught he thought of many things confusedly and a few most vividly. He thought of Leigh Shirley and her childish dream of Prince Quippi in China-the China just beyond the purple notches. He thought of his mother as she had looked that spring morning when he talked of enlisting for the Spanish War. He thought of his father, who had never known fear in his life. Of his last words

'As thy days so shall thy strength be.

And keenly he remembered Dr. Carey, somewhere among the troops behind him. The fine head crowns behind him. The fine head crowns with white hair, caressed by the monbeams, as he had seen it in the Manila garden, and his earnest words: "Yew"

You must learn to be a Christian. You must know what service for humanity means. You need not hunt for manify means. You need not hunt for the opportunity to prove this. The opportunity is hurrying toward you now out of the Unknown." "It is here, the opportunity," he murmured. "Oh. God. make me a fit soldier for Thy service." He did not pray for safety from dan-ger and death; he asked for fitness is agree and is that mengen the sensel

to serve and in that moment his great lesson was learned. There came an instant's longing for Dr. Carey; then the battle storm burst and he did not think any more, he fought. It were useless to picture that struggle.

Nothing counts in warfare till the results are shown. For six hours the fighting did not cease, and not at Valley Forge, nor Brandywine, Lake Erie, nor Buena Vista, Gettysburg, nor Shiloh, San Juan Hill, nor in any jungle in Luzon did the American flag

it led to-day on the plains beside the

At last the firing ceased, the smoke lifted above the field; the Boxers, fifted above the field; the Boxers, gathering their shattered forces to gether, retreated again before the little line of Allied Troops invading this big strange hand. And the last hours of that long hot day waned to eventide.

There were only a few of its events that Thaine could comprehend. He knew Little Kemper had received his death wound, blowing his bugle calls death wound, blowing his bugie calls again and again after he had been stricken, till the last reveille sounded for him. The plucky little body with the big soul, who had found his brief fifteen years of life so full of "doing." Thaine knew that in the thick of the Thaine knew that in the thick of the fight the native Indian Infantry, the Sikhs and Sepoys, had fallen in cowardly fear before the Boxer fire. He remembered how big Schwoebel, and Tasker, and Binford, Goodrich. and McLearn, with himself and an-other man whom he recalled after-ward as Boehringer, a Kansas man, had clubbed self-respect into a few of them and kicked the other whining cowards from their way. He knew that Schwoebel had been grievously wounded and was being taken back to Tien-Tsin with many other brave fel-lows who had been stricken that day. He knew that near the last of the fray a man whom he had admired and loved second to Lieutenant Alford, big Clint Graham, of a royally fine old family of state builders in far-away Kanaas, had fallen by the mistaken shot of Russian cannon, and the weight of that loss hung heavy about the edge of his consciousness wher-ever he turned. But what followed the battle Thaine Aydelot will never for get.

Twelve hundred men rose no more Tweive numered men rose no more from that bloody field before Yang-Tsun. The fighting force, sixteen thousand strong, was wearing off at the rate of almost a regiment and a half a day, and it was yet a hundred

All about Thaine were men with faces grimy as his own; their lips, like his, split and purple from the alkali dust. They had had no water to drink in all that long day's twelve miles of marching and six hours of fighting. Fearful is the price paid out when the wilderness goes forth to war! And heroic, sublimely heroic, may be the Christianity of the battlefield.

"We must help these fellows," Thaine said to his comrades as the wail for water went up from wounded men

"The river is this way," McLearn declared. "Hurry! the boys are dying."

So over countless forms they hur-The to the river's brink for water. Thaine and Tasker and Boehringer were accustomed to muddy streams, for the prairie waters are never clear. But Goodrich from Boston had a mem-But Goodrich from Boston had a mem-ory of mountain brooks. The Penn-sylvania man, McLearn, the cold springs of the Alleghanies, and for Binford there was old Broad Ripple out beyond Indianapolis. All these came down with dry canteens to the Peiho by Yang-Tsun. The river was choked with dead Chinamen and dead dogs and horses. They must push aside the bodies to find room to dip in their canteens.

"You have one more lesson. You must learn to be a Christian."

Somehow the words seemed to ring round and round just out of Thaine's y mental sight.

"Vasser! Vasser!" cried a big Ger-man soldier before him.

Thaine stopped to give him a drink, and as he lifted up the man's head he saw the stained face of Hans Wyker.

#### Belts and Girdles are Now Popular IMPORTANT NOTICE

Form and pairy patterns shown in these columns are separated to pre-parate and includences for the second second



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The Black and Whites Popular on the Prairies. Long Prices Paid for Good Stock. Western Breeders Want Constitution and Producing Qualities.

BREEDERS of Holstein Frieslan was also given of the herd at the Man-cattle in western Canada are es. jtoba Arrientianal Catter

BREEDERS of Holstein Frieslan was also given of the herd is sentially practical. This is to a Agricultural College characteristic, by the way of mind western people Theling prices, for cond stock, which expect to receive the realization of Profess paying norm, even digs prices 406 good stock, but the expect to receive full value for their money. This means that they want conformation and has producing qualities come near qualities can be defined and the state of the events line, where the state of the or the definition of the state of the parts line, the state of the parts of the state of the state of the parts of the state of the state of the parts of the state of the state of the state parts of the state of the state of the state parts of the state of the state of the state parts of the state feet. der official test.

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der official test Not many years ago almost any ant-mai that was that and while in its markings found a ready sale in the west. That its has passed. Today was refuse to buy un'ess they know that they are colus to get it. Some of them say they have been stung in the past, and that they don't intend to have the experience repeated. The same may be said of other breeds of catte and live stock. One point western breeders are be-

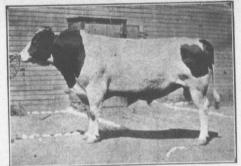
cattle and live stock. One point western breeders are be-coming very insistent upon, that is, that all stock brought in from outside points must first be tuberculine-tested. Private breeders first took this stand Private breeders first took this stand in reference to their own purchases, but now the provincial governments are beginning to co-operate with them. British Columbia for some time has refused entry to untested animals, and now Alberts breeders are agitating for now alberts breeders are agitating for now Alberta oreceters are agitating for similar action on the part of Alberta Government. Eastern cattle-breeders, who have any expectations of making sales in the west, should note this ten-dency and govern their actions accordingly.

#### Government Herds.

Last year we described at consider-Last year we described at consider-able length the great Holstein herd of the Colony Farm at Essondale, B. C., which contains probably more 100-lb. cows than any other herd in Canada. Mention was also made of the Holstein actions was also made of the Holstein herds on the various provincial gov-ernment farms, including those of the Alberta Government at Olds, Stony Plain and Vermillion, and at the Ed-monton University. A full description

manitopa conege Here. Lince last year the herd at the Mani-topa Agricultural College has been considerably strengthened. Following the resignation of Professor Jacobs, Associate Professor G. W. Wood, who Associate Professor G. W. Wood, who had been acting as Professor Jacobs' assistant, was given charge of the herd. Being keenly interested in the handling of pure bred stock, Mr. Wood is already getting good results from his frotte. This was shown at the Brandon Provincial Exhibition, where the structure of the

was shown at the Brandon Provided Exhibition, where mine arithmatic from the college herd that were a very creditable period a very reditable protombale addition to the young bull, Forest Ridge Fayne As, which captured the first award in the yourning bull class at Brandon. This young bull, class at Brandon. This youngster was purchased from L. H. Lipsit, of Starfordville, and was sired by Finderne King May Fayne. He is



#### Joseph H. Laycock's Champion Sire on the Western Circuit

both last year and this. Korndyke Posch Pontiac is a grand individual any way you take him, combining sreat substance with dairy type and character. He is one of the best known sires in Western Canada.

west are those of joseph H. Laydoca, of Okotoks, Alberta, and George Bev-ington, of Winterburn, Alberta. These two herds for some years have taken



They Grow them Straight in Alberta. Maude Sarcastic, a Holatein cow in the herd of the Dominion Experimental Station at Lacombe, Aits., looks well and works hard. On a butter gat test of 4.75 per cent. she made 463.7 hes. milk in seven days, equal to 57.81 hes. butter.

out of Axie de Kol, of Riverside, who at 11 years produced over 28 lbs. of butter in seven days. Show Herds.

Two of the best-known herds in the

#### Forest Ridge Fayne Ax.

This yearling sire is the Junior Herd Bull, of the Manitoba Arribuiture balege Hard, one of Finderne King May Fayne, from the herd of it. I Adaht itamfordville, ont. The photo dees not do him justice, as at the Brancharae-er and vigor, and easily won out in the yearline at the Brancharae-tic of the state of the st

in the circuit of western fairs and In the circuit of western fairs and have captured the greater part of the prize money. Two other herds that are doing well in the prize ring are those of the Duke of Sutherland, who has four or five farms in Alberta, and who showed last year and this at the Edmonton Exhibition, and Clark & Edmonton Exhibition, and Clark & Sims, of Argyle, Man., who showed this year at Brandon. We had the privilege of attending the Brandon Exhibition and looking over the herds of Laycock, Bevington, and Clark and Sims. The examination showed that they contained some rarely good ani-mals.

#### The Laycock Herd.

The Laycock Herd. The Holstein herd of Bonnie Brag Stock Farm, owned by Joseph H. Lay-one of the best herds in the western Mr. Laycock's father was the pioneer having made his first purchase of He bought the first and second prios be bought the first and second prios behold the first and second prios behold in the Mission and the first exhibition. Quality was the waves made, and it has been thes of the herd ever since. Mr. Laycock, fir, herd ever since. Mr. Laycock, for interseed his herd. You wars ago be held a complete dispersion sale.

west are those of Joseph H. Laycock, well known was his stock that the average price paid for the 73 head was \$212, including calves as young as 30 days old.

as 30 days old. The present herd was started by Mr. Joseph H. Laycock five years ago, when he purchased 20 head of yearling heifers through G. A. Gilroy, of Glen Buell, who was told to secure nothing but the best. Mr. Laycock's farm is situated in the dairy district of Alberta, about 26 miles south of Calgary, on the main line to Macleod. At the same time that Mr Laycock made his purchases through Mr. Gilroy, some purchases through Mr. Gairoy, some aged cows were purchased from other herds. So well has this stock turned out that for some years Mr. Layoock has been the principal prize-winzer at the western exhibitions. The herd now comprises 65 purch-red animals. The herd sire Korndvke Posch prin-

The herd sire Korndyke Posch Pon-tiac, owing to his hoted winnings in the show ring, is the best known herd sire in western Canada. Mr. W. P. Stephen, who judged this year at Calgary and Red Deer, said that he would like to see this bull shown against the noted bull of the Raymond Stock Farm which won st Ormstown. He is a grand individual any way you take him, combining great substance with dairy type, char-acter and atrength of constitution. He is very strong in the top line, brood actor and strength of constitution. He is very strong in the top line, broad across the loins and in the quarter, and his lines blend nicely from head to tail. Both last year and this he was first and champion at Calzary, Red Deer, Edmonton and Brandon, and was expected to win at the latter ex-hibitions this year. He was brought out from Ontario in dam, his dam being Queen Merrerney Posch, a half sister to concer buffer Paronees, who has a Queen Merverney Posch, a half sister to Queen Butter Baroness, who has a record of 33 hs. in 7 days. His sire was Korndyko Veeman Pontlac, the well-known herd sire for several years of R. J. Kelly, of Tillsonburg Not himself, but his young rick. Is a his succeeding, as is shown by torins for hat Mr. Last the Calgary, Red Decr. Edmonton, and Brandon exhibitions in strong competition. A youngster sired by this bull, Bonnie Brae Car-man, was the junior champion bull ay man, was the junior champion bull at the same exhibitions. This young bull is a particularly fine animal of true Holstein type, and defeated the Manltoba College bull already mentioned.

#### Some Good Females.

Included in the herd are some par-ticularly fine females. So far Mr. Laycock has devoted his principal at-Laycock and devoted his principal ab-tention to developing animals of good dairy form and conformation. Now that he has succeeded in this and his stock is well known throughout the west, he is planning to pay less atten-

#### August 16, 1917.

tion to the show ring making of records. T of animals in his he he should be equal this direction. Nellie Teak De B

cow, has no. been s excellent performer tered in the next Ca As a two-year-old she As a two-year-old and lbs. milk, and Mr. 1 her to be an easy 20, is a large, rugged co cally all of the other

Carman Beauty I six-year-old animal, shown, as she calves has a two-year-old has a two-year-old 10,300 bbs, of milk. S calf every year, and all been winners. He man Korndyke Beau year-old won the dairy gary exhibition this lbs. of milk a day, test She was entered in year, but met with an being chased by a dog withdrawn. At the e month she gave over

day testin . over 4 per Another good individ Bayham Mercedes, bo sonburg sale three yes nine years old and a d lie of Bayham, the firs grand champion in the first and champion at shown by Mr. Lipsit. cord of 22 lbs. of butte of 1,500 to 1,600 lbs. of

A full sister of hers i ham Mercedes 2nd, 8 animal has a record of 7 days as a three-year first prize winner a year, the only time shown, and a member of first prize herd. Both

A Great Co Princess Holdenby D the best-known Holstein ries, she having been a championships in two y grand champion cow o last year at Red Deer she was defeated last her stable mate, Molli Mercedes 2nd. This y captured first place and at Calgary and Red D ened before the Edmon where she took the rese As might be expe ship. As might be expe-animal with strong dair tics, possessing a gran turous milk veins and strength.

carman Korndyke Be year-old of Mr. Laycock ing, was last year the fi year-old and reserve ser



this direction. Nellio Teak\* De Kol,  $\varepsilon$  sixyear-old cor, has no been shown, but is an excellent performer and may be en-tered in the next Calagary dairy test. As a kwoyear-old she produced 10.783 lbs. milk, and Mr. Larycock believes her to be an easy 20.060-lb. cow. She is a large, rugged cow, as ne pract-cally all of the other females in the herd.

can's all oc the other remates in the herd. Carman Beauty De Kol, another sizeser-old animal, has never been shown, as she calves in the fall, but of the state (3.200 bb. coll are coll are coll and the call every year, and be las raised a call every year, and she has raised a call every year, and the state of the sarry exhibition this year, giving 57 liss. of milk a day, testing 53 per cent. She was entered in the R.O.P. last year, but met with an accident through being chased by a dog, and hat to be withdrawn. At the end of the third month she gave over 60 bb. of milk a day testin. over 4 per cent.

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, broad quarter, m head this he Calgary, don, and

tter ex ught out n being lf sister to has a His sire ac, the al years rg Not now ring is also the fact prize for ed Deer, oungster rae Car-n bull at oting bull of true he Mani-

ntioned. ome par far Mr. ncipal aton. Now s and his thout the ess attenwithdrawn. At the end of the third month alse gave over 60 bbs. of milk a day tostin. over 4 per ct t. Another good individual is Mollie of Dayham Mercedes, bought at the Til-burg of the second second second second ine years of three years ago. She is nine years of the second second second irrand champion at Toroni-circuit, first and champion at Toroni-circuit, first and champion at Toroni-circuit. A full sister of heuts in 7 days, and of 1,500 to 1,600 bbs. of milk. A full sister of hers is Mollie of Bay-ham Mercedes 2nd, 8 years old. This animal has a record of over 15 lbs. In a days as a three-year-old. She was a sear, the second sec

first prize herd. Both are strong ani-

A Great Cow. A Great Cow. Mences I foldensity De Kol is one of the bask-kould for the set of the pra-tion of the set of the set of the set of the the bask set of the set of the set of the the bask set of the set of the set of the the set of the set of the set of the the set of th

strength. Carman Korndyke Beauty, a three-year-old of Mr. Laycock's own breed-ing, was last year the first prize two-year-old and reserve senior champion

tion to the show ring and more to the making of secords. The excellent type of animals in his herd indicatos that is agoed to be degaily successful in the speelt, be degaily successful in Brandon and second at 12 Mamonia. Wellin Teac, Da Kol, e six-year-old the first prize senior calif and junior com, has no, been shown, but is an excellent performe shown, but is an excellent performe alows y dairy data tered in the next Capsary dairy test As a two-year-old dapary data is milk, and Mr. Larycoid 10/78 been doing well for Mr. Larycock. It is related to Hardy's great Carman bur to the an easy 20,000-th, cow. Sho

Sivia cow. Cornelia Aagle Pontiac, a daughter of the herd sire, was first prize senior heifer calf last year at all shows, be-ing undefeated on the circuit. This year be won 2nd place at Calgary, Red Deer and Edmonton, and first at Bran-don. In type she shows many of the characteristics of her sire.

It is interesting to note that in Mr. Laycock's large show herd there are only five animals not of his own breeding. So well known is this herd that

In Manitoba who are in any way in-ferented in dairying. Starting in the farled of 1910 with little or no practical experience to guide him, Mr. Cum-mings, by good management, shrewd new start and because of his deep in-teresting and because of his deep in-members of the rate in the start was asked the dairy officials of the his wartment of Agriculture who would be his heart and Dairy with an article-on "Glovers, Cows, and Slos in Mani-oha", they manimously agreed that his form which state that we over-the and the field that we have the baseling the fact time before with some prominent American visite



#### Buffalo Pauline.

A splendid specimen of the Holsteins in the Gienlea herd of Mr. W. J. Cum-mings, Winnipeg. Among the Holstein herds of Manitoba, Gienlea easily holds the foremost place.

last year Mr. Laycock sold over 50 bead in the four western provinces. Now that he is arranging to devote special attention to the making of records, it may be expected that there will be an even greater demand for his stock.

ors, in being able to call attention to it as a farm that would stand com-parison with the best dairy farms any-

apecial attention to the making of records, it may be expected that there will be an even greater demand for **Manitoba's Popular Herd.** The outstanding Hoistein herd of ed, it being the farm is of the Really Manitoba is that of the Glenlea Stock from the city, on taked about 15 miles from the city out the standard back about 15 miles from the city out the standard back about 15 miles from the city out the standard back about 15 miles from the city out the standard back about 15 miles from the city out the standard back about 15 miles from the city out the standard back about 15 miles from the city out the standard back about 15 miles farm, is the pride of all those peoplemobile. For about half the distance



(29)

#### Sir Bessie Homestead Fobes.

the set , this which

Senior size of herd of W. J. Cummings, at Winnipeg. His breeding is given in the accompanying article. Farm recent-ly visited by an editor of Farm and Dairy.

the e are paved streets. The governthere are paved streets. The govern-ment is now planning to convert the road that passes the farm into a por-tion of the Jefferson highway which is to extend from New Orleans to Winto extend from New Orleans to Win-nipes. The Manitoba Government de-sires that the stretch of the road run-ning from Winnipeg to the provincial boundary, a distance of about 68 miles, shall be the best portion of the road on the whole route, in order that visitors to Canada may be led to de-cide that Canada has the best roads of all. The Glenlea Station, used by the Canadia Northern, the Northern of al. The Grentea Station, used by the Canadian Northern, the Northern Pacific and the Great Northern Rail-wars, is located on the farm, which is thus furnished with unusually favor-able railway facilities. Character of Farm. The farm comprises two sensitions as

the furthweak with unusuality takeds table rules of facility. **Character of Parm.** The momprises was seen to a set of the set of t



were made through Mr. G. A. Gilroy and Gordon Manhard, of the Brock-ville district. The animals purchased through these breeders from 1910 to through these breeders from 1910 to 1913 gave excellent satisfaction. Some bulls and females of rarely good breeding were purchased in the States. By 1912, the herd was so strong that By 1912, the herd was so strong that Mr. Cummings was able to capture most of the principal awards for Hol-steins at the Winniper, Brandon and Regina Exhibitions, and also the fol-lowing year at the Dominion Exhibi-tion in Winnipèg against strong com-retition netition

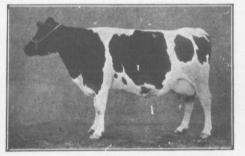
In 1912 the herd captured first place in almost every class wherever shown. It has not been shown since 1913, partly because the Winnipeg Exhibi-tion has not been held for several years. One of the principal prize win years. One of the principal prize win-ners was Daisy Camille 2nd, a grand cow still in the herd, which was the grand champion female at Winnipeg, Brandon and Regina in 1912. The bull, Sir Bessie Homestead Fobes, won first prize at the Dominion Fair in 1913 and headed the group which won the prize offered for the best five dairy cattle. In the younger classes at the Dominion Exhibition winning animals from the herd included Pon-tiac Calamity Mercena, winner of first tiac Calamity Mercena, winner of nrst in the senior calf class, and also re-serve champion male of any age; Pon-tiac Mercena Bonheur, 2nd in senior calf class; Shadeland Queen 2nd



A Neat Line-up of one of the Classes of Holstein herds at the Calgary Exhibition, this present summer.

lonia Champion Johanna, a number of it is traced on his pedigree is rewhose young stock is still in the herd. This bull derives his blood from Johanna Colantha 2nd, record 32.89 1bs. hanna Colantha 2nd, record 22.89 Mes. Colantha 4th Johanna, record 35.22 Ubs., and Sir Fayne Concordia, who is a full brother to the former world's champion, Grace Fayne 2nd's Home-stead, that has a record of 35.55 Mes. The combined records of these three cows average 34.55 Mes. Ob tuter in a week. The sires appearing in his podiare had 30-bh daughters. The present herd sire is Sir Bessie Homestead Yabes a grand large bulk

The present herd siré is Sir Bessie Homestead Fobes, a grand large bull, full behind the shoulder, strong in the back and loins, broad in the quarter and full of vigor and character. His sire is from the former world's cham-



#### One of the Most Noted Holsteins on the Prairie.

Princess Holdenby DeKol has won-for Mr. Joseph H. Laycock, of Okotoks, Alta., many worthy honors in the show ring. She is known as his champion been the winner of nine championakips in two years, including the Grand Championship over all breeds last year at Red Deer. Form re-cently visited by an editor of Farm and Dairy.

Beauty, 1st in junior calf class; Glenpion, Jessie Fobes Bessie Homestead, lea Belle Korndyke, 2nd in junior calf with record of 34.96 lbs. His dam was a class and Gleniea Pearl Hengerveld, full sister to the same cow and both 3rd in junior calf class.

Mr. Cummings started the herd by a purchase of twenty animals. Since then other animals have been pur-chased from time to time. In all about 70 head have been purchased; against this, 130 have been sold. In against this, 130 nave been sold. In spite of these sales the herd now numbers from 125 to 150 pure-breds, of which 60 are milking. Included among the females are 25 yearling and 25 two-year-old heifers, that are s fine a lot as could well be wished for, they being all growthy, straight, strong constitutioned youngsters in excellent flesh. The cows are bred to freshen in the fall. The butter fat is sold to the T. Eaton Co., Winnipeg, the price averaging about 33 cents winter and summer, occasionally running as high as 50 cents a pound in winter.

#### Herd Sires.

A glance at the pedigrees of the herd sires that have been and are being used in the Cummings' herd reveal lines of breeding that would rejoice the heart of every good Holstein breeder. A bull that was used for some time with great success was Co-

with record of 34.96 lbs. His dam was a full sister to the same cow and both them are three-fourths sisters to the 36-lb. cow Lady Oak Fobes De Kol and Jessie Fobes Sunnyside De Kol, one of the few cows that have made two 30-lb. records. A brief review of the work of these great sisters shows that it is not without cause, for their that it is not without cause, for their sire is a grandson of De Kol 23's Mu-tual Paul and Aaltje Salo 3d's Tri-tomia Netherland and their dams are by Homestead Jr. De Kol. This great bull is stamping his characteristics on much of the young stock of the herd.

Two of the younger herd sires are also rich in breeding. One is a son of Buffalo Pauline, which at two years of age gave 24.7 lbs. of butter and 454 of age gave 24.7 hos. of butter and you hos. of milk in seven days. This grand cow is still in the herd and shows her great producing qualities. The sire of this young bull is Colonia Champion Johanna, something of whose breeding we have just given.

The other young sire is out of Glen-lea Pontiac Banostine Belle, and her dam was Buffalo Eona Johanna, a grand-daughter of the St. Louis World's Champion, Sarcastic Lad, and the 26-lb. cow Johanna Colantha. The breeding back of this young bull as

markably rich. Some Good Females.

Among the best females in the herd are Shadelawn Queen 2nd, which at are Shadelawn Queen 2nd, which at one year and 11 months produced 365 lbs. of milk and 13.26 lbs. of butter in 7 days and 1,494 lbs. of milk and 54.51 lbs. of butter in 30 days. Rhoda 6th has a record of 451 lbs. of milk and 17.54 lbs. of butter in 7 days. Her record is 581 lbs. of milk and 22.67 lbs. of butter in 7 days.

lbs. of butter in 7 days. Buffalo Eona Johanna, the dam of 9,313 bbs. of milk and 325.57 bbs. of butter in six months. A cow, which, when fresh, discloses a practically perfect udder of great capacity, is Buffalo Pauline. She has a record at two years of age of 454 lbs. of milk and 24.7 lbs. of butter in 7 days. Another fine matron is Pauline Paul Beereport. She has a record of 22,989 lbs. of milk and 971 lbs. of butter in 365 days.

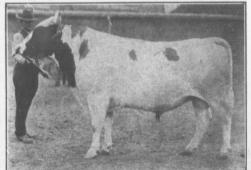
The buildings on Glenlea farm are entitled to rank among the best on any dairy farm in Canada. They are large, well lighted and well ventilated and equipped with all modern con-veniences. The King system of ventiveniences. The King system of venti-lation is used and has given excellent satisfaction. The dairy barn is set off by two splendid silos, as shown in the accompanying illustration. Beaides the dairy barn there is a milk-house, a piggery and a hen-house, all equally modern in construction. About nine men are employed all the year round. Mr. Cummings' success as a breeder is due largely to his love of farming and of live stock. Besides Holsteins,

The Bevington Herd.

the west. These we were unable to visit before this issue went to press. We hope to report on them at some George Bevington, of Winterburn, Alberta, is another breeder that has length in a future issue.

Clydesdale horses and Chester White pigs are raised, as well as turkeys, ducks and Rhode Island Red fowl.

of butter in 7 days. It would be impossible to mention in detail all the fine herds in western Canada, as they are numerous and in-creasing in numbers. British Colum-bia has also some of the best herds in



#### Laycock and MacDonald's (of Calgary) Ayrshire Sire.

A favorite price winner at maker of the ownight for the second structure of th

August 16, 1917.

August 16, 1917.

met with distinct success. At present this herd is in care of Lorne Logan, who is well known to eastern breeders

as the former manager of Mr. A. C.

Hardy's herd at Brockville. At the

Edmonton Exhibition this year this herd won both the herd prizes. It in-

cluded the grand champion female, Duchess of Spring Hill, a low-set cow

of great capacity. Their young bull Colony Major Posch Tensen won first

Colony Major Posch Tensen won first prize this year in the two-year-old class practically wherever shown, while their junior bull, Sir Modest Tensen, won everywhere but at Bran-don, including the reserve junior championship at Calgary. Red Deer and Edmonton. The two-year-old heifer Francy Faforit Fride was first this year at the restorm shows, while

Catharine Faforite, a senior yearling, was first everywhere but at Brandon. Katie Tensen, a junior yearling, has also proved a prize-winner this year.

A New Exhibitor.

This year a new exhibitor appeared at the Brandon Exhibition in Clark & Sims, of Argyle, Manitoba. They showed some 18 head. Mr. Clark came to the west about a year ago

came to the west about a year ago from Prince Edward Island, bringing with him Ruby Nig, the champion fe-male last year at Halifax, Charlotte-town and the other Maritime exhibi-

town and the other Maritime exhibi-tions. This years has repeated her success at Brandon by winning the championship. As a three-year-old she made a record of 16,555 lbs. of milk and 750 lbs. of butter in a year-

and as a four-year-old gave 25.67 lbs. of butter in 7 days.

#### Avrshires

Strong Herds Shows Animals to the

A tour of Wester year, by an edit Dairy, was pro-dence that Ayrshire ca ing in numbers and po lent herds are maintai vincial departments o the three prairie provi by numerous private in the Lower Fraser V district of British Colu are raised extensively an excellent account o an excellent account o the numerous cow test conducted under the su British Columbia Depa culture. In these as cost of feed is conside the amount of milk and duced and from this th animal is deduced. This the animal is deduced. This test our Eastern Ayr have long been clamo which in British Colum yielding excellent re it is that some of the it is that some of the herds in Canada are Fraser Valley. Two d were described at some year's Western Canad Farm and Dairy, thos Thompson, of Sardis, Bros. of Clover-

E. A. Wells, of Sardis, has an-other well known herd. Since last year the Shannon great cow Rose, has com-pleted her R.O.P. test with a record of over 20,000 lbs. of milk. Such records naturally are tending to give the a great boost.



#### lege Herd. During the past

ear the Ayrshire herd of the Manitoba College at Winnipeg, has erably strengthened. A this herd was published our Western Canada num charge of Associate Pro Wood, who is well know breeders. That the herd number of good animals at the recent Brandol



A Good Representative chfergus Snowdrop was gr endid representative of th her owner, W. Braid, Oa

resent Logan, eeders A. C. It the r this It inemale, t cow g bull n first ear-old shown, fodest Branjunior Deer ear-old s first while arling, andon. g, has year. peared Clark Clark ar ago inging ion fe-arlotte-

exhibi-d her ng the ear-old lbs. of

year-67 lbs.

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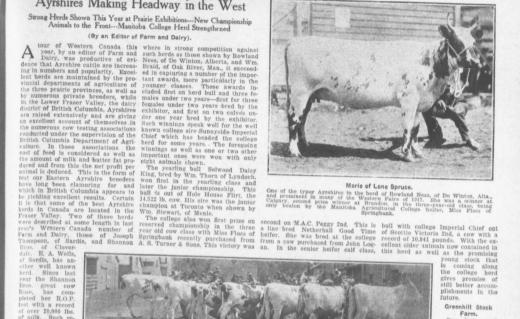
### Ayrshires Making Headway in the West

Strong Herds Shown This Year at Prairie Exhibitions---New Championship Animals to the Front---Manitoba College Herd Strengthened

test with a record of over 20,000 lbs. of milk. Such re-cords naturally are tending to give the breed a great boost.

The Manitoba College Herd.

During the past year the Ayrshire



#### Greenhill Stock Farm.

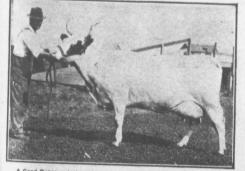
One of the most satisfactory herds of Ayrshires in the west is that owned by Wm. Braid, of Oak River, Mani-toba, the pro-prietor of the Greenhill Stock

The Ayphire bend of the Maniloba Agricultural won slihough she had been in milk the College won first, second and fith northwest of Brandon where the land College at Winking, has been considered by strengthened. A description of the two year old class at Toronto last stred by Stengthened at the principal class the third was publication of the two year old class at Toronto last stred by Stengthened at the principal class the third to Mr. Braid's Scotch temperament, charge of Associate Professor I.s in yearly record of 12,878 bbs. of milk, charge of Associate Professor I.s in yearly record of 12,878 bbs. of milk, charge of Associate Professor I.s in yearly record of 12,878 bbs. of milk, charge of Associate Professor I.s in gentry record of 12,878 bbs. of milk, charge of Associate Professor I.s in gifter place if the Ayrshire classes at Berndon Exhibition the dairy test at Guelph, one year wins state of the stred by where there was an excellent showing at both Guelph and Ottawa. In senior yearlings the college won third place on jumior (Continued on page 34.)



A Class of Young Ayrshires at the Calgary Exhibition. Ayrshires are worthily assuming a prominent place in the dairy industry of Western Canada.





A Good Representative of Her Breed and a Dairy Cow Worth While. Lochtergus Snowlrop was grand champion at the Brandon Fair this summer. As a piendid representative of the Ayrabite bread and a cow excelling in dary quality, her owner, W. Braid, Oak River, Man., has good cause to be proud of her.



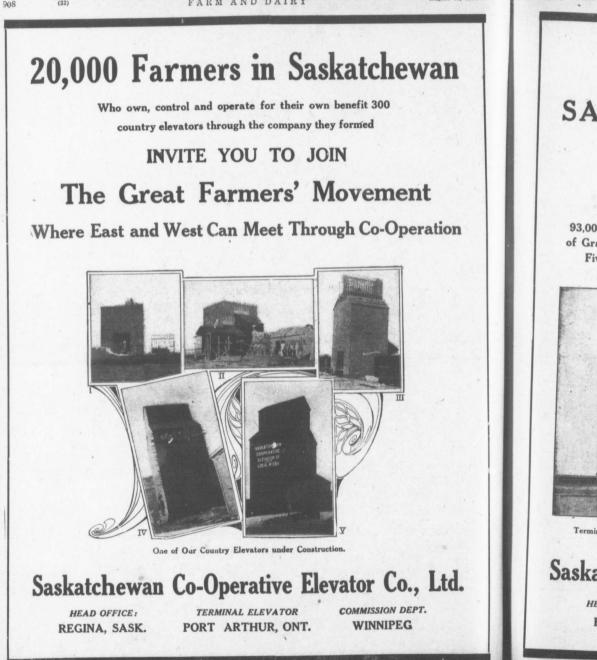
The Grand Champion Ayrshire Bull at the Brandon Summer Fair. Ine Grand Construints Affairle Suit as the Brandon Summer Fair, mindé Laoky Sensier, owned by W. Braid, Oak River, Man, is a grandit bred II. His aire is Morton Mari S Sensior and his dam the great Barcheskie Lucky Girl. He is one of the great Ayrahires of the West,

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August 16, 1917.

August 16, 1917



August 16, 1917. FARM AND DAIRY (33) 909 The Business Enterprise OF SASKATCHEWAN FARMERS Is shown in Building the First Public Terminal Owned by Organized Farmers 93,000,000 Bushels **CO-OPERATION** Financed from Accumuof Grain Handled in lated Reserves. All Five Seasons AGAIN Profits Belong to **Organized** Farmers

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It Will Pay You to mention Farm and Dairy when writing Advertisers.

#### Ayrshires Making Headway in the West (Continued from page 31.)

over two months, gave 54 lbs. of

in view the young cows in his herd are

much of the same stamp. Flossie

qualified at two years with a record of

4.204 lbs. of milk, testing 3.95% in the R.O.P. Mr. Braid has two animals now entered in the R.O.P. and will enter the balance of his females as

Two years ago Mr. Braid erected

modern dairy barn 36x90 ft., which is equipped with all modern conveni-ences, including steel stanchions,

breeding pens, litter carriers, etc. Mix-ed farming is followed on the farm.

Other stock raised includes pure bred Berkshire hogs and Plymouth Rock fowl, the latter being handled by Mrs.

Braid. Amout 60 acres of wheat, 100

of oats and 20 to 30 acres of barley are

raised, the balance of the farm being devoted largely to timothy hay. Con-

sidering the few years that Mr. Braid has been handling pure bred Ayr-shires, he has secured an exceptionally

fine start. This herd promises to be-come more widely known in the future.

Canada number, the Ayrshire herd of Rowland Ness, of De Winton, Alberta, is one of the outstanding herds in the

Robt. Ness and a brother of the equal-

ly famous R. R. Ness, of Howick, Que.,

and therefore, knows about all there

eral years this herd has been the larg-

est prize winners on the western cir-

cult, and this year, although it had been somewhat depleted by important

sales, was again successful in taking

most of the awards at the leading ex-

hibitions, including Calgary, Red Deer,

from Mr. Ness and thus, although Mr.

class at Brandon he had the satisfac-

tion of knowing that the bull which

defeated him was an animal from his

own herd. Mr. Ness has a large herd which show their good breeding and approved Ayrshire type. The herd sire

of the Ness herd is Burnside Master-man, a son of the famous Hobsland

Another Alberta Herd.

prises 50 to 60 pure breds.

An Alberta herd which was shown

Ness was defeated in the aged bul

Edmonton, Brandon and Regina. Braid's champion bull was purcha

is to know about Ayrshires.

Mr. Ness is a son of the famous

For sev

Mr.

We did not

Another Show Herd. As mentioned in last year's Western

they freshen.

mont

masterpiece

first and grand championship on his all white, showing a herd sire Burnside Lucky Sensier, marking on the head, and is a beauti-first and championship on aged cow ful dairy type throughout. She carries

Snowdrop and third in the same class an excellent set of Ayrshire horns on on Spicey Lass and first for herd of a fine head and over a grand muzzle. on Spicey Lass and first for herd of bull and four females any age. In body she is straight, long and smooth, and carries a beautiful vessel

There is an interesting story con-nected with the establishment of this extending well forward and behind, in fact her udder is well nigh perfect, and excellent herd. Mr. Braid left Scotland is adorned with a set of excellent, well ome 20 years ago and settled in the Oak River district. For seven years he worked as a hired man, but all the time with the idea of in time owning placed teats. This cow was entered in the dairy test and in spite of warm sime with the idea of in time owning weather and her strange surroundings a good farm of his own. Much of the gave 60 hes of milk a day, credit for the accomplishment of this -Spicey Lass, the 3rd prize cow at ideal is freely given by Mr. Braid to Brandon, has been a Gueiph dairy test he had are denogen to much as winner, and in the dairy test he had are denogen to much as the strange of the s he had saved enough to purchase 160 acres for himself. Some time later he milk a day on the fair grounds. In con-formation she is much like Lochfergus succeeded in purchasing the 160 acres adjoining this, giving him a half sec-tion of 320 acres. At first he kept good cows and used Shorthorn bulls, but found that he could never tell what Snowdrop, the two making a grand pair. She is not quite so smooth as Snowdrop, nor does she possess quite the same length but she is a rare good class of milkers he would get from a Shorthorn size. From the first he realone just the same. A lot of the young stuff in Mr. Braid's show herd were ized that on a farm such as his to make from these animals or others of the pay he must have good milch cows same type and showed their breeding. as it would not pay to raise beef cattle. same type and snowed their breeding. Snowdrop is the type of cow that about meets Mr. Braid's ideal and as he has been breeding with that ideal

Realizing that he must improve the milking quality of his herd, Mr. Braid miking quality of his herd, Mr. Braid decided that an Ayrshire bulk would be the best to use, because it would be sure to nick in nicely on his Shorthorn grades, in fact it would suit them bei-ter than any other dairy cross. He knew also that the first cross should give him good producing females or good atterns as the first should the first bulk secured was from F.

Herd Sirea. The first bull secured was from P. D. McArthur, of North Georgetown, Que. This bull was Cherry Bank Dandy Jim, by Nethorhall Milkman, and was a prize winner in the Syear-old class at the Brandon and Winnipeg Exhibitions. The next herd sire pro-tionation of the Statement of the Statement of the Statement of the Statement Exhibitions. The next herd size pro-cured was Greenhill Rising Star, bred by Hector Gordon, and was purchased in his dam. He was sized by White-hall Free Trader out of Stone House Blosson. Stone House Blosson is one of the bast producing cows in Mr. Eraid's hard. This bull was a first prize winner in the yearing class in Winninge, and the following year re-peated this success in the two year, old class at the Brandon Exhibition, the Winninge Exhibition not being held that year. This bull was used for two years and left a lot of fine stock, con-siderable of which is still in the herd. Blossom. Stone House Blossom is one

siderable of which is still in the herd. The next sire secured was Logan Braes of Menie, out of Stuart's famous cow Dewdrop and sired by Springhill ashier. As a yearling he won first lace at Brandon in a class of nine, and Cashier. the following year second place in the two year old class.

two year old class. The present herd size is Burnside Lucky Sensier, as already stated the grand champion at Brandon this year. He is a buil of rare good qualities, having the type of head that Ayrshire breeders neise combined with whe breeders prize, combined with sub-stance and an excellent barrel, a straight strong top line, broad quar-ter, deep, plenty of character and good handling qualities. He would make a good showing in any Eastern show ring. The dam of this bull was Ness' famous cow Barcheskie Lucky Girl that has an American Advanced Register record of over 17,000 pounds of milk at 13 years of age, and which was milk at 13 years of age, and which was a sweep stakes winner at the Ottawa Dairy Show. He was sired by Morton Mains Sensier Imp., a R.O.P. bull. Macdonald College has used a bull out of the same cow with splendid success, and is now using another son of

the same cow. Females.

An Alberta herd which was shown with considerable success at the Cal-gary, Moose Jaw, Mediche Hat and Regina exhibitions is owned by Lay-cock & MacDonald, of Calgary, it com-Among the fine females in Mr. Braid's herd are the two prize winners Brance nere are not two prize winners prizes so to so pur Dreak. We did not already mentioned. Lockbergus Snow, have the privilere of seeing the herd, drop hup, the grand championship but were advised that it contains much cow is a 10 year old animal that is a excellent shock. It captured the breed credit to the breed. She is practically prize and other awards at Calgary and

at Medicine Hat, took 15 first, seven second and three third prizes. We ex-pect to visit this herd and report on it more fully later, as well as on the arely good herd of Shannon Bros. of Cloverdiale, B. C. A full description of little brown st herd will probably appear in this our Exhibition number.

#### What New Ontario Has to Offer the Propective Settler (Continued from page 6.)

cost of clearing off land in this virgin forest may seem prohibitive, but in reality, state the men who have actually done it, the price of the timber and pulp wood sold off the land will pay for its clearing and will allow the settler handsome wages for his time. The man who goes in to clear up a

wooded farm, however, must not ex-pect to have it all ready for cultivation within one or two years. The cost of clearing up a whole section in that time would be greater than the settler could probably afford. If, howyear take out a certain amount pulp wood, then slash the remaining growth and burn. By this method it will be found that the land will be easily cleared and that the money received from the sale of pulp wood will easily pay all expenses incurred in the clearing,

On the Monteith Experimental Station, close records were kept of the cost of timbering and slashing nine acres of virgin forest. The price of pulp wood at the time when this work was done, was but \$3.25 a cord. Even then the revenue derived was such that it left a balance of \$14.38 an acre over the cost of clearing, even after paying high wages in having the work done. When one considers that pulp wood is now selling at \$7.50 unpeeled on the railway line, it can easily be seen that the cost of clearing land need not distress the prospective settler

For the man who wishes to get his plow into the land as quickly as pos sible, however, there is ample space for him to locate in the burned-over areas. While it is true that he will have no pulp wood to sell, it is equally true that within a short space of time he should have many acres of hay and grain ready for market. On one farm, just north of Hearst, in a district which had been well burnt over, a man with two grown up sons came in last fall just in time to build little shacks before winter set in. This spring, one of the boys has 30 acres in crop, the other has six acres of oats and has 18 bags of potatees planted, while the father, who is an old gardener, has 4,000 cabbages will be seen that it is not difficult to clear up burnt land when such results can be obtained in one spring.

#### What It Will Grow.

The impression seems general in Old Ontario that while the land in these new districts may be good, it is so far north that ordinary crops will not mature. This impression has been proved to be entirely erroneous in the older established districts, and as the country becomes opened up so that the sun can get in and the water may drain away, it will be found that any of the ordinary farm crops which can be grown in Old Ontario will do equally as well if not better in this new country. One crop in which New Ontario cer

tainly excels is clover. Nowhere have I seen such crops of hay as I found growing in every district from New Liskeard to Hearst inclusive. Red clover four feet long and timothy stretching up to five feet were not uncommon in the majority of the dis-tricts, and in certain particular fields visited on this trip were not the ex-ception, but the rule. Three tons to the acre of timothy and red clover is

#### August 16, 1917

the crop which g large fields of M New Liskeard th on which this grew oh which this grew a crop of oats, the 40 pounds to the nothing like the m year after year," so waded through his Alsike clover se

Alsike clover set Northern Ontarlo. finds it growing, a tracks and among t ly burned clearing country in which c as being a weed. It trict addining Numerical trict adjoining New erable alsike seed port. New Ontario famous for its cloves

Fall wheat is a ne New Ontario. Boun cereal are grown th er districts, and at 1 a comparatively ne bushels to the acre in three successive been found at this entited wheat increases ing placed on clove on the new land. S not been found quite the northern distr country has not yet oped there is always in the fall before the matured. Of course also attended the op districts in the Canad are now considered frost, and it may be in connection to remem the land open for sett ern Ontario is still se tude of Winnipeg. On account of its

and shallow rooting h one of the surest cro districts. On the Mo districts mental Farm this gra good crop each year f ive years. Peas are crop throughout Nor To the visitor from O certainly marvellous to lent stands of peas ob fields throughout pra districts where farmin in Northern Ontario. For the northern dist

just newly opening up found that the O.A.C. giving the best sati year this variety gave bushels per acre at the perimental Farm, and days from the time of s reached maturity. Th sown on May 7th and August 5th, thus giving for the fall plowing of One of the outstand

Northern Ontario is the With the black muck characteristic of the turnips do exceptionali find here the same s which obtain in all t market gardening locati ca. At one of the farms recent trip, turnips had ful crops for seven yes sion

Northern Ontario pota come well known to pots Old Ontario for their en the when used as seed. ers in the new district find very little trouble enemies. The fact that r gives earlier and larger brought back to Old On the potato grower in 1 the tario of a steady market The Proof of the P

It does not take a pr son of a prophet to p Northern Ontario will or one of the finest farming Canada. In the New I trict, which is now some

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FARM WANTED

#### August 16, 1917.

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SARATE

the crop which grew on one of the ample proof is at hand of the beauti-large fields of Mr. Leng's farm at ful farming country which follows the New Listeard this year. The field settler's are in the clay belt. In this grew produced last year. The farmers about this district a crop of oats, the seed of which went are now getting well established of pounds to the bushel. "There is in stock raking. The Glengarry year after year," said Mr. Leng as we nedy, although only cleared some waded through his field of clover. Alsike clover seems indigenous to Northern Ontario. Everywhere one company of any farm buildings in Old

waded through his field of clover. Alatke clover seems indigenous to Norther clover seems indigenous to Norther seems and the set of the second tracks around the second second second tracks among the stumps in new y burned clearings. This is the country second rates and second seco

port. New Ontario is becoming quite famous for its clover seed. Fall wheat is a nervefailing croph in New Ontario. Bountiful crops of this cattle, has already made a good start cereal are grown through the did in dairying. Mr. Yates with his 45 head of cereal are grown through the did in dairying. Mr. Yates is now build a comparatively new community. 30 paralol for 60 cows next year. In three successive years. It has one finds a considerable rivairy ex-tha three successive years. It has one finds a considerable rivairy ex-tha three successive years. It has one finds a considerable rivairy ex-tha three successive years. At one particular spot I was able to so control and the experiment of the second of the barna. They heat increases its yield on be done was done for was able to on the new land. Spring wheat her we find fammers who produce as much the northern districts. Where the we find fammers who produce as much the northern districts. Where the we find fammers who produce as much cereal are grown throughout the old-er districts, and at Monteith, which is a comparatively new community, 30 bashes to the acre has been reaped in three successive pears. It has the construction of the second second that for a successive pears is the placed on clover sod, instead of on the second second second second the placed on clover sod, instead of on the second second second second the placed on clover sod. Instead of on the second second second second the second second second second second the second second second second second the second second second second second operative second secon country has not yet been well devel-oped there is always danger of frosts in the fall before the wheat has quite matured. Of course these dangers also attended the opening up of new districts in the Canadian West, which districts in the Canadian West, which are now considered immune from frost, and it may be interesting in this in the new districts of Ontario have connection to remember that all of the land open for settlement in North-

On account of its sarly maturing and shalow rooting habits, barley is one of the surget maturing the districts. On the Montenian Experi-mental Farm this grain has Experi-mental Farm this grain has grave good crop each year for the size and the years. Peas are an outstanding crop throughout Northerm Ontario. To the visitor from Old Ontario it is serially marvellous to see the expectcertainly marvellous to see the excel-lent stands of peas obtained in large delds throughout practically all the districts where farming is practised" in Northern Ontario.

For the northern districts and those found that the O.A.C. No. 3 oats is found that the U.A.C. NO. 3 0418 is giving the best satisfaction. Last year this variety gave a yield of 60 bushels per acre at the Monteith Ex-perimental Farm, and took but 90 days from the time of seeding until 11 reached migning. This scone was reached maturity. This crop was sown on May 7th and harvested on sown on May 7th and harvested on August 5th, thus giving plenty of time for the fall plowing of this field. One of the outstanding crops of Northern Ontario is that of turnips.

With the black muck soil, which is characteristic of the whole district, characteristic of the whole district, turnips do exceptionally well. They find here the same soil conditions which 'obtain in all the important market gardening locations in Ameri-ca. At one of the farms visited in my recent trip, turnips had given bounti-ful crops for seven years in aucces-sion.

Northern Ontario potatoes have become well known to potato growers in Old Ontario for their excellent quali-Old Ontario for their excellent quali-ties when used as seed. Potato grow-ers in the new districts of Ontario find very little trouble with insect enemies. The fact that northern seed gives earlier and larger yields when ares earlief and larger yields when brought back to Old Ontario assuras the polato grower in Northern On-tarlo of a steady market The Proof of the Pudding. It does not take a prophet or the son of a prophet to prophesy that Northern Ontario will one day make one of the facest forming consistence

one of the finest farming countries in Canada. In the New Liskeard district, which is now some 15 years old, over.

Ings which would look well in the company of any farm buildings in Old Ontario. The large barn, 104 x 54 feet, set on a concrete basement with stabling for 39 cattle, is indeed a credit to the farm. The equipment of this barn is entirely up-to-date with water before all the cattle. Although so far Mr. Kennedy has been largely raising beef cattle, it is his intention to swing over to dairying abortly.

we find farmers who produce as much we find farmers who produce as much as 7,000 bushels of grain in a season, as they do in the Milberta district, we find farmers who are enthusiastic about the possibilities of this new northern country.

frost, and it may be interesting in this in the new districts of Ontario have connection to remember all of started in without much, if any, capi-the land open for settlement in North-tal, usually going north because they tade of Winnipez. On account of its eityr maturing and shallow rooting habits, barling is a drawback to any settler. Many are districts. On the Monteith Experi-families have concent by the settlement of the settlement and shallow rooting habits, barling is a drawback to any settler. Many are districts. On the Monteith Experi-families have conce in the settlement of the settlement pockets, and by working out, build good crop each year for five siven a with but a few dollars in their good crop each year for five siven a with but a few dollars in their good crop each year for five siven a with but a few dollars in their good crop each year for five siven a with but a few dollars in their good crop each year for five siven a with but a few dollars in their for horushout Northern Ontario II: is for the first couple of years while they certainly maryellous to see the exect for the first couple of years while they were clearing the land. Everywhere can be found these men who, bare-handed, have hewn out in this new "country what are now valuable farms. At the same time the man who can bring in with him a team of horses, a cow, a few heas, and from \$500 to \$1,000 in ready money with which to pay expenses until the farm begins to bring in wirems, is, in the ophion of many settlers whom I interviewed, in a good way to make a upcose in in a good way to make a success in the new country.

1 It the new country. was It must be remembered that when on one takes up a farm in a new dia-mentic the is not necessary to build ac-pensive buildings. In fact, in any of of the wooled districts, it is better not is of forest fires. And in such districts for, forest fires are always to be feared. bey forest fires as Blessing.

forest free are always to be feared. Forest Fires a Bleen and the second While the settler in a timer dis-trict may clear the immediate effects of a fire on his buildings, the feature that the greatest bleesing that can come to a farmer in Northern On-tario is to have his bush burned over hy a forest fire. When one has been over the district and has seen the enormous difference in the amount of enormous difference in the amount of labor required to clear up timbered land as compared with that which has Then as compared with that when this been burnt over, he begins to see that, terrible as the free may have been while they lasted, they have resulted in untold wealth to the settlers who are noing into these districts. Not only have they cleared up the lend only have they cleared up the land, but for miles they have opened up the but for miles they have opened up the country to the rays of the sun and have allowed the snow and rains to escape much more quickly, thus greatly lessening the dangers from untimely frosts in the districts burnt



911

(35)

## Give each of Your Children a War Savings Certificate.

ET them feel that they are Canada's partners — that they have each a definite share in the stern struggle-1 the certain victory-and the free and glorious future.

Encourage them to save and buy Certificates themselves I You'll be developing their patriotism, their thrift and their business sense-for Canadian War Savings Certificates offer absolute security and excellent

interest return. More important still, you will be guaranteeing their future, for every dollar lent to Canada helps win the war.



For each \$21.50, \$43 or \$86 lent now, the Government issues a Certificate, payable in three years, for \$25, \$50 or \$100. This means that interest is added at over 5% per annum. Certificates may be purchased at any Bank or Money Order Post Office.

For the sake of Canada and your children, save and invest in War Savings Certificates.

The National Service Board of Canada, OTTAWA.



912

## What Saskatchewan Does to Help Its Farmers Under this Act, there has been fasted to our in sight years and distributed to our in sight years and distributed to our interval schools no beas than \$2,213,

#### F. H. Auld, Deputy Minister of Agriculture, Saskatchewan,

fessions and occupations. They came from all climes and countries. The conditions under which they live and labor were new to the most of them when they came, and this alone im-posed a grave responsibility upon the Saskatchewan Government with respect to agricultural instruction. When Saskatchewan was organized

in 1905 there were only 257,763 persons in the province, and 209,301 of these, or 69.77 per cent., were classed as rural dwellers. The census of 1916 showed Saskatchewan's rural population to be 471,182, or 86.1 per cent., and her urban population 76, 653, or 13.9 per cent. Immigration so varied, so voluminous, and so recent, as these figures show the movement to Saskatchewan to have been, could not but impose many responsi-bilities. Highways, telephones and and schools were urgently needed. Muni-cipal institutions had to be supplied and strengthened. Public buildings were few and inadequate. New laws had to be framed to meet new conditions. The legislative and administrative record of the Saskatchewan Government since 1905 shows what has been done to make agriculture profitable and rural life attractive in Saskatchewan.

#### Cooperative Creameries.

Since 1906, when there were no creameries in Saskatchewan which were not cooperative, the Saskatch-ewan government has operated all the cooperative creameries in the pro-vince. In 1907 the cooperative creameries made 66,246 pounds of butcompared with 2,538,661 pounds in 1916. This development is due to the management of them by the Dairy Commissioner for Saskatchewan, who for the past ten years engaged local for the past ten years engaged local managers, purchased supplies, mar-keted the product and paid the pat-rons. Judicious control over the organization and location of new cream the introduction of a graded scale of prices for milk and cream according to quality, and the grading of butter for markets outside of the province, together with government aid in equipping and operating the co-operative creameries, have been the been the main features which contributed to their remarkable success.

The cooperative creameries being no longer "infant industries," are cutting loose from government aid, and as one large incorporated company, known as The Saskatchewan Cooperative Creameries, Ltd., will manage their own affairs in future. The Saskatchewan Government will loan up to 75 per cent. of the capital required to erect and equip local branch creameries and cold storage warehout ganized by the Saskatchewan Cream-CARRIER COMPANY OF THE eries, Ltd.

Cooperative Elevators.

de the stand and

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Saskatchewan Cooperative The Creameries are the oldest form of cooperative enterprise in Saskatchewan, and when the Grain Growers in 1908 wanted government elevators the creameries furnished an object lesson. Consequently the form which govern-ment assistance took corresponded with that which was contemplated as the ultimate form of assistance for the cooperative creatmeries, namely, aid in financing plants owned, con-trolled and operated by the farmers themselves. And it is worthy of noise that in many respects the new Co-operative Creatmeries Act is similar to the Cooperative Elevator Act. Local organization, local control, cen-tral management, government loans on the security of the plant and the the cooperative creameries, namely,

SASKATCHEWAN farmers differ unpaid shares are features common widely. They represent in their to both. This comparison, however, mark a large variety of races, pro is by the way. The notable fact in fessions and occupations. They came connection with the Elevator Company is that the government loaned 85 per cent. of the money needed to construct the elevators, and in the early days when banks were not so anxious to finance the business of the company as they are to-day the gov-ernment found it necessary to guar-

antee the repayment of their current borrowings. Every reader of the agricultural or financial press knows how successful the Saskatchewan Cooperative Elevator Company, the largest of the farmers' elevator companies, has proven.

Cooperative Marketing of Wool and Poultry.

These lines of effort have been carried on by the Cooperative Organiza-tion Branch for three years with very beneficial results. Saskatchewan wool sold for higher prices in 1916 than similar wool anywhere else in Can-Poultry marketing stations have ada. for two years handled a large quantity of poultry, and since these enterprises were undertaken by the gov-ernment local prices have been set on the basis of what the government realized for its patrons.

Saskatchewan passed a law four years ago making it possible for needy farmers to buy cattle, sheep and swine on credit terms, by paying at least 25 per cent in cash and the balance on easy terms, with interest far below the rate usually paid for credit mmodation. Several thousand head of stock, consisting of pure-bred bulls, grade cows and helfers, and pure-bred rams and ewes have been supplied under its provisions since this Act was passed.

#### Farm Loans

The Live Stock Credit and Sale Act was to a limited extent the means of providing cheaper money for farm ers, but land credit at lower rates than have been available from the usual sources of farm loans came into demand. To provide this the Sas-katchewan Government has passed legislation which will enable a Farm Loan Board to loan to farmers, at cost, money which the province will borrow. All loans will be on the cost, money which the province will borrow. All loans will be on the amortization plan, and will be repay-able in 30 equal annual payments. It is expected that under this plan annual payments of less than our farm-ers now pay for interest alone will be sufficient to cover both principal and interest

#### Educational Efforts

The number of school districts existing in Saskatchewan on September 1st, 1905, was 894. The number in ex-istence on December 31st, 1916, was 3.878, showing an increase of almost 3.000 in a period of 11 years, or an average of 270 for each year.

The government not only interested self in a large way in the organiza-on of districts, but it provided the funds for rendering financial assist ance to these districts, notwithstanding the heavy burden created by the ever-increasing number of schools. The following figures will indicate what this has meant to the public

treasury: For the year 1906 the total grants paid to all districts amounted to \$251, 200.50. This increased to \$350,807.95 in 1910, and to \$639,812.08 in 1915.

In addition to these grants the gov-ernment provided a scheme for rais ing additional revenues through the Supplementary revenue act, the chief object of which at the time was to tax unoccupied land outside of school districts in order that they might bear some share of the cost of education.

675.88

Since 1908 the government has sup plied school readers free of charge to every school in the province. During the years this law has been in force no less than 402,761 books have so distributed at a cost of \$82,128.96, and at a saving of over \$55,000 to the people of the province. By this action the former sum has been saved to the parents of children who have been attending school.

#### Secondary Education.

A good primary education is a prime requisite, but secondary edu-cation has not been neglected. Provision is made in our statutes and encouragement is given by a system of grants out of the public treasury in aid of high schools and collegiate stitutes. There are now 22 high schools and collegiates in Saskatchewan, and all of them were established since the organization of the province in 1905 Legislative grants amounting to \$301.412.10 have been paid during the past eight years. To complete the educational edifice a state university, liberally supported by public funds has been established at Saskatoon and associated with the university and an integral part of it is the Col lege of Agriculture. Nearly two mil-lion dollars have been spent upon the university, and much of this has been devoted to agricultural education and research.

Liberal grants in aid of agricultural societies are paid by the government to 126 societies and two winter fairs. From one-half to two-thirds of the money expended in prizes for live stock and agricultural exhibits is repaid in the form of grants.

Just at this season especially is the work of the Bureau of Labor in supplying farm help worthy of note. has many other duties, of course, but not the least of them is that relating to getting annually an adequate sup ply of labor for stooking and thresh-ing our grain crops. The Bureau ing our grain crops. The Bureau maintains three public employment offices and receives applications from farmers for men. The best evidence of its usefulness is the fact that it aids in handling upwards of 30,000 farm hands each year, most of them at harvest time.

In conclusion, I shall refer to the fact that only a little more than two years ago the retail sale of liquor was years ago the retail sale of luquor was legal in every province except Prince Edward Island. The Saskatchewan Government exercised the powers which it had been given after the outbreak of the war to strike a death blow at the trade in intoxicating liquors. Measuring the benefit of this reform by the gauge with which the public is most familiar—the financial one—but which, after all, is the least one-out which, after all, is the least important, it may be stated that by this means ten millions a year have been saved for useful enterprises in this province alone.

HOME CLUB

"Homeland" Ties Continue

Strong

country," have gone back on Ontario

or do not properly appreciate it. And now while our western land is in the

thoughts of Home Club members af-ter reading a whole magazine full of articles about us, I would like to add

my little word to tell you what a strong bond of love there is between the "Homeland" and the hearts of her children who are far away. In fact, I think, if there is any difference, it is that the absent ones love and preciate the old home even more than the ones who have never left it.

By comparing your native land with different districts with which we become acquainted, we realize more fully what a wonderfully favored land Ontario really is. And in the home sick spells, when we long with all our hearts to be "back home," (it will always be that to us) then we know as wo never knew before how very very dear are the scenes of our childhood.

And to show Home Clubbers how far we are from depreciating Ontario I want to tell you that we are always trying to transplant a little of Ontario trying to transplant a intre of Ontario into our adopted country. For one thing we have maple aceds planted in our garden. I said, "it will be a long time before we will have maple trees, but it will not be long till we will have maple leaves." And how we have longed for the beautiful old maple Then I have had slips of plants sent to me all the way from Ontario and I have loved and cherished them so. We often wish, too, that we had on our farm some of the Ontario wild flowers

And oh! you see it in so many ways -the love for the old home. When When we meet strangers in this country, one of the first questions always is, "Where do you come from," and as oon as we hear that anyone has come from Ontario, there is a bond of sympathy at once. Just lately I was in small company of people and a strang-er came up to me. (We are not very particular about introductions in our country, for we are all strangers to-gether). The stranger said: "Excuse me, but what part of Ontario did you come from? I heard you say you came from there."

How we love to tell about Ontario to the people who have never been there! And that "we" includes all the children of old Ontario. When they go back home they naturally talk of the west and that is perhaps the reason the home folks get the idea that they have gone back on Ontario. But get any of them in conversation with ome one who has never seen Ontario and you would soon realize that how-ever extravagantly they boost the west, in their hearts is still a very very warm spot for the old home. How we love to describe the old orchard and the grand old maple trees, the beautiful farms and fine buildings and good roads! So often I have said to English people on the prairie, "Oh. I hope you will never go home without seeing Ontario." Once while in Alberta I was at a lecture, when the lecturer was suddenly surprised by a fust spontaneous and ringing cheer, because he had said something parti-cularly fine about Ontario. I am sure cularly nne about Ontario. I am sure two-thirds of that audience were from Ontario and what pride you could see in their faces! I was amused to see a man turn and look at his neighbor with an expression that plainly said, 'Don't you wish you had come from that wonderful place, which the speak-er is talking about?" And when he saw his neighbor looking at him with the same expression they immediately shook hands.

We love this glorious west of ours with its vastness and newness and wealth of beauty and the fascination of watching it "in the making." But we will never cease to love the dear old home, that is like part of us, be-cause it is so entwined in our hearts, cause it is so entwined in our hearts, heing instricably worker with so many sacred memories. And so I say from my heart, "Three cheers for old On-tario!" And again,-"Three cheers for the farmers who have made her what she is!".-."A B. C. Pjoneer."

#### August 16, 11

#### Organizati

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The Martintown F.O. in Glengarry ed to do somethin On their initiative to hold a public m ust to boost the part of Ontario. premier clubs of t matter of holding tral company, the having two shares. A strong club w ized at Asphodel st county. Mr. J. J. M the meeting in th time of the local co boro. A couple of Ellis, of Farm and completing the org promises to be a g

#### Does Cooperation

DROBABLY the b above question announcements Cooperative Elevator Saskatchewan Coop on other pages is the unanswerable operation amongst th The statistics conclusively that it very best interests of Alberta and Saskate ate, and what has may with equal suc Ontario, and is even way. In the second tory, the Cooperative ment of the Albe creased its business only one instance of t sults that have attend since its inception, chewan company can equally gratifying These 15,640 farmers 20.000 farmers of Sas certainly found that i the line to cooperate.

We would call our tion to these announc them to carefully cons given there. The sto ern farmers' fight for will make fascinating comes to be written. I Canada Number of F a little story is given ing statement of the A tive Elevator Company katchewan Cooperat Company, which cont for the farmers of Onta with no uncertain vol call that one of the g success, protection and the farmer, is coopera

#### Progress in Albert

(Continued from this year the percentag run over 90%. "The ty have done more than to assist us in improvi of our butter," he said the adoption of the grad which most of our but grade as determined b ment graders at Edmo gary, and secondly, the mod cream. There are

**HEALT** 

#### MUST not let this Western Number go into so many homes of dear old Ontario without a little message of greeting to the Home Club. I think that the "home folks" in Ontario sometimes have the feeling that we who have left home to go to a "new

#### August 16, 1917.

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#### Organization Continues

NTEREST in organization among Ontario farmers is being carried right into the busiest season of the year. Recently Mr. Morrison, the secre-tary of the U.F.O., was invited to Dor-chester, in Middlesse county, and a good club was organized. Mr. Morrison then used in the Sanforth in Urgon good cub was organized. Mr. Morrison then went up to Seaforth, in Huron county, and again the organization meeting was successful, and this club meeting was successful, and this club promises to be a strong one. At Cranbrook, in the same county, local farmers, without the help of an out-side organizer, formed a club of their own and decided to affiliate with the

U.F.O. The Martintown branch of the U. F.O. in Glengarry county have decid-ed to do something new and original. On their initiative the club is going On their initiative the club is going to hold a public meeting late in Aug-ust to boost the movement in that part of Ontario. This is one of the part of ontario. This is one of the premier clubs of the province in the matter of holding stock in the cen-tral company, the secretary himself having two shares.

having two shares. A strong club was recently organ-ized at Asphodel station, in Peterboro county. Mr. J. J. Morrison addressed the meeting in this district at the time of the local convention in Peter-boro. A couple of weeks later Mr. Eills, of Farm and Diary, assisted in completing the organization of what promises to be a good club.

#### Does Cooperation Pay the Farmer

PROBABLY the best answer to the above question is jound in the announcements of the Alberta Cooperative Elevator Company and the Saskutchewan Cooperative Elevator on other pages of this issue. It Consolidation of the many of the means, in a the innewerable argument for co-operation amongst the farmers of the condustry calisation situation of the every best interest it has been to the very best interest it has been to cooper-ato, and what has been do cooper-ato, and what has been do cooper-ato, and what has been do not ontario, and is even now well under way. In the second year of fla his-tory, the Cooperative Supply Depart-ment of the Alberta company in-creased its business 400%, to quote only one instance of the wonderful re-sults that have attended this company since its inception, and the Saskat is the unanswerable argument for co sults that have attended this company since its inception, and the Saskat-chewan company can point to results equally gratifying and wonderful. These 15,640 farmers of Alberta and 20,000 farmers of Saskatchewan have certainly found that it pays all along the line to cooperate.

certainly found that it pays all along the line to cooperate. We would call our readers' atten-tion to these announcements and ask them to carefully consider the figures stiven there. The story of the west-ern framers' fight for a square deal will make fascinating reading when it comes to be written. In this Western Canada Number of Farm and Dairy a little story is given in the interest-tive Themson of the Alberta Cocyera-tive Themson of the Alberta Cocyera-techewan comparative Elevator Company, which can uncertain you're all and call on call that one of the areal and claring success, protection and prosperity for the farmer, is cooperation. the farmer, is cooperation.

#### Progress in Alberta Dairying (Continued from page 19.)

this year the percentage was likely to run over 90%. "The two factors that have done more than anything else ave done more than anything else to assist us in improving the quality of our butter," he said, "have been the adoption of the grading system, by which most of our butter is sold by grade as determined by the Govern-ment graders at Bdmonton and Cal-gary, and accould, the use bustour ind crease. There are 35 creasureries service. These are the largest cream-eries in the province. Some of our smaller creameries as yet have not cared to make the necessary invest-ment for equipment."

As one travels through the western provinces and taiks with the dairy of-ficials, it soon becomes evident that western dairymen are forging right ahead in their methods. Dairy Com-missioner L. A. Gibson, of Manitoba, Informed me while k was in Winni-methat the Manitoba reamaging are As one travels through the western peg that the Manitoba creameries are rapidly adopting the system of pasteurizing their cream. A system of grading has been in use for some years, although not on just the same basis as the one used in Alberta.

#### Round Grain Shocks

T is very unwise to grow a good rop of grain, cut it with a self-binder and then put it up in shocks that permit it to spoil. It is shocks that permit it to spoil. It is not uncommon, however, to find field after field of grain of good quality that has been put up in poorly-made shocks. In many instances the shocks are too small to stand up well. shocks are too small to stand up well. In others the bundles have been care-lessly thrown together, and the shock in settling has drawn out of shape and gone down with the heads of the bundles resting on the ground. In a Bundles reacing on the ground. In a great many cases the shocks are left uncapped. Under any of these cir-cumstances the grain cannot help de-teriorating in quality, if allowed to stand in the shock for any length of

time. In order to save grain a good sys-tem of shocking should be learned and then conscientional followed. One of the most satisfaring shocks of twelve-bundle, round shock. It will answer for any kind of arrain. It is built by setting up three pairs of bun-dles in a row, preferably starting with the centre pair and placing another pair on each end. Two bundles on each side complete the foundation for the shock. All of these bundles the shock. All of these bundles should lean slightly toward a common about lean slightly toward a common centre. The other two bundles should be used for caps, breaking them down well at the band and placing them over the ridge of the shock, which will run in the direction of the three centre pairs of bundles. The heads of the first cap bundle should be cox-ered by the second cap bundle. I-this way only one bundle of heads ered by the second cap pundle. It this way only one bundle of heads out of the twelve is exposed to the weather. Such a shock, when well built, will preserve grain almost as well as though it were stacked.—An-drew flows

FACE TO FACE HALF-A-MILLION Canadian farm homes want the best our factories can turn out for Canadian farm nomes want the best our factories can turn out for them. And, in proportion to the greater and demand for farm products, will be the increase in their produced if prosperity. The har-vent, this year, has been good. This fail as a big buying season, and our farm folk will be open for ideas at the big Exhibition. Here,

### EXHIBITION ADVERTISING

where your products will be face to face with a hundred thousand

Not only show these people your best at Toronto, but make sure they will plan to see it and see your representative there, by announc-ing it in our

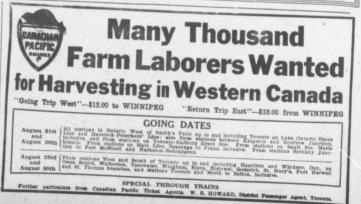
## Exhibition Number of August 30th, 1917

It reaches the cream of our farm homes-dairy farmers and dairy-

All Copy for this must reach us by August 23, 1917

#### FARM and DAIRY PETERBORO, ONTARIO





(38)

## KING SEGIS WALKER'S

Oldest daughter with first call made 456 lbs. milk and 24 lbs. butter; with her second calf, 560 lbs. milk and 29Å lbs. butter. His first granddaughter, through his son, at 2 years 2 months, made 440 lbs. milk and 23Å lbs. butter. Young stock for sade.

A. A. FAREWELL, OSHAWA, ONTARIO.

## RIVERSIDE HOLSTEINS For Sale, Choice Young Bulk, sired by grandson of Pontiae Korndyke, and a brother of Pontiae K Korndyke. 58.03 butter in 7 days, 186.92 hbs. 30 deyn-mored for the hen made Also formate brot of YEINE." A. W. RICHARDSON, CALEDONIA, ONT.

#### LAKEVIEW HOLSTEINS

Are still in the lead. The latest HolLST FLITS 4 candian eccords for builts, non-start book shows that they held 4 Candian secords for builts, non-starting builts have won all honors possible at both TG itching, non-Stabibuidan, 315 k. Now we possible at both TG itching, non-stabibuidan, 315 k. Now we have the fail tairs, and we have decided to give 315.00 in goid to the man that buys the 1917 winner. Lakeview. TG billing of the the fail tairs, and we have the lakeview. TG billing of the format of the fail tairs of the fail Lakeview. TG billing of the format of the format of the fail tairs of the failed to the fail tairs of the failed to the failed tairs of the failed tairs of the failed to the f

#### HIGHLAND LAKE FARMS

Farm at Stop 55 Yonge Street Radial Jefferson, Ont.

R. W. E. Burnaby

#### -HOLSTEINS.

We have the only two sons in Canada, of the 44-lb. bull Ormsby Jane King-only mature son of the sorts and two masses cow. One of them for any source of the sorts and two great-grand-dams average 33.4 all ages. PORT PERRY, ONT. R. R. No. 4, R. M. HOLTBY.

#### Registered Holsteins

Bulls from one month to 17 months and for sale. All from our grand herd s ire, Echo Segis Fayne, whose site is half-brother to Segis Fayne Johanna, the world's wonder cow, that has just made a record of 50 Hs. in 7 days. If you need a well backed bull write at once. STANSTEAD, QUE. JOHN M. MONTLE, Sunnyside Stock Farm

### EWE LAMBS FOR BREEDING PURPOSES

The Sheep Breeders' Associations in Quebec are offering several hun-choice ewe lambs for breeding purposes—Shropshire, Oxford, Hamp-A. Leicester and Cheviol grades. Prices, 21.20 to 318.00 acat. Orden received for pure bred rams of the above breeds at \$20.00 to \$40.00 exch. Apply

A. A. MACMILLAN, in Charge of Sheep Husbandry, Macdonald College, Que.

#### VILLA VIEW OFFERS FOR SALE

Villa View, the home of King Segia Aleartra Calamity and Dutobland pontiac Colantha, the two herd aires that are backed up by more dams that have hold world's records than the herd aires of any objects Canada. We have a few Aleartra bulls for sale at reasonable of the ABBOAST BROTHERS,

#### LAKESIDE AYRSHIRES

A select lot of young bulls, all ages, sired by Auchenbrain Sea Foam (Imp.) 5755 (5855), Grand Champion at both Quebee and Sherbrooke, from Record of Performance Dams. Write for catalogue. Manager: D. McARTHUR, Philipsburg, Que,

Proprietor: GEO. H. MONTGOMERY, hinion Express Bidg., Montreal.

Dom



## Market Review and Forecast

T OLIONTO, Aug. 13.—A. report his Just been inder by the center and a tions of field crops throughout Canada at the first of the month. The saatern provinces have been been crops are re-ported from all quarters. Hay, postces and roots are all from an avenue to a title above the The prelime provinces, however, have not fared so well with regard to rail, while Abbeth the provinces however, have done much to im-prove prospects there. Manitoba and saskatchewan both report poor grain series are able to be all the same to be view of the same to the same to be able to be prove prospects there. Manitoba and saskatchewan both report poor grain of the best be able to able to be able to able to be able to able to be able to able to be able to able to be able to able to be able to

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MILL FEEDS. The mill feed market is very atrong in sympathy with the upward trend of the grain market. The demand for bran for abigment to the United Rath Cardot de-lowered Montreal freights. Cardot de-lowered Montreal freights. Shorts, 481 bran. 136; middings, 487 to 483; good feed four, per bag, 181 of 8135. At Montreal, bran, 533; short 81 of 8155. At Montreal, bran, 533; short 81 of 8155.

EGGS AND POULTRY. Eggs ner remaining from The supply of eggs at present is unusually low, due not only to the season, bail facto the searcity of feed. Segs at constant and wholeselses are saillner them to the retail trade at 45c. The retail price at Montreal is 45. The retail price at Montreal is 4

#### DAIRY PRODUCE.

DAIRY PRODUCE. The hot weather which was several three class, either months differentiation of the several several three three data in the data of t

Alexandria, Aug. 3.—990 white sold at 21%c. Danville, Que., Aug. 4.—1,775 boxes sold at 20%c. Belleville, Ont., Aug. 4.—1,741 boxes

Mont Joli, Que., Aug. 4.—210 som at 2014c. Woodstock, Aug. 8.—410 colored cheeses: highest bid 20%c; no sales. Peterboro, Ont., Aug. 8.—2,700 boxes sold at 21 3-16c. Madoc, Ont., Aug. 8.—385 boxes sold at

Madoc, Unit, Avg. 9.—450 white cheese Campbellford, Aug. 9.—450 white cheese rold at 21 5-16c. Kingston, Aug. 9.—698 cheese sold at

 mass, sest middling, set 1 to 181; good feat, sest 1 to 181; good 8.25 8.25 6.50 6.00 120.00 85.00 120.00 14.75 13.00 8.60 7.00 11.50

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August 16, 1917

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August 16, 1917.

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FARM AND DAIRY

## **PROVINCE OF ALBERTA**



Alberta offers the farmers of **Ontario**, and elsewhere, the one best chance; the land, climate and the local Government all work together for the success of the agriculturist.

Farmers predominate in Alberta's Legislature and guarantee a square deal to the man on the land; direct and remedial legislation has already given agriculture the right of way.

The Minister of Agriculture (an ex-Ontario boy), is himself a farmer, and is in direct touch and sympathy with every problem of interest to farmers.

Though Alberta is well adapted for wheat and other cereals, stock-raising was her first industry of importance and still holds the premier place.

**Dairying** has now become firmly established throughout the Province; the output of the creameries and home dairies is increasing year by year with leaps and bounds. FREE LAND FOR SETTLERS

915

HEALTHY CLIMATE

### "FARM AND RANCH REVIEW, JULY 20, 1917."

"Alberta Dairy Exhibit the Best on the Continent."

"According to expert judges of butter and dairy products, the dairy exhibit made at the Calgary Exposition could not be beaten on the North American contario, Manitoba, Saskatchewan, Alberta and British Columbia had butter in competition, but about ninety per cent, of the prizes were awarded to Alberta butter-makers. According to L. A. Gibson, Dairy Commissioner of the Province of Manitoba, who was one of the judges, the quality of the butter shown at the famous Toronto Exhibition is not equal to that exhibited at Calgary.

"In explanation of the high quality of butter exhibited in Alberta, Mr. Gibson is quoted in a newspaper interview as saying that this had been attained by the grading of the cream and butter. 'Alberta took the lead in this : Manitoba and Saskatchewan came next, and now Ontario is in line. It is hoped that there will be a uniform standard as high as that which Alberta has reached, and when that is reached there will be a big development and expansion in trade that will develop with Great Britain. The quality of the Alberta butter has been brought up to just what the British trade demands. It has the mild flavor, the color, the proper amount of salt, the keeping quality, and in fact, everything that is required to meet the demands of the British market. That is what we are trying to make the Dominion standard, so that our butter can be sold on standard, and the trade find that it is an established thing."

FOR FULL PARTICULARS APPLY TO

Hon. DUNCAN MARSHALL, Minister of Agriculture, EDMONTON, ALBERTA CHARLES S. HOTCHKISS, Chief Publicity Commissioner, Department of Agriculture, EDMONTON, ALBERTA

AN APIARY DEMONSTRATION RIGHT ON THE FARM. COLONIES -



THE DEDADTMENT ENCOURAGES FINE PLOWING. SCENE AT PROVINCIAL PLOWING MATCH

**Ontario Livestock Branch** 

Full information is given on all phases of the livestock inquistry, it estock association memberships, cooperative shipments of livestock to Eastern and Western anada, grading and marketing of wool, stallons in use in Ontario, and the stallion law and requirements for inspection and enrohment. Assistance is also given to sales of livestock and to local poolitry asso-ciations:

clations. 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**

Ontario Fruit Branch
 For the fruit scover this branch has valuable information. If necessary
 a personal visit will be made to your farm. Expert advice on planning of orch ards, vineyards and small far, cultivation, cover crops, thinning; packing in
 boxes and barrow law question, in short, relating to practical fruit growing
 in Ontario. WHITE DIRECTOR P. W. HODGETTS.

In Ontario. WRITE DIRECTOR P. W. HODGETTS. Three important divisions are also under the supervision of the director. (1) Experimental work in fruit and vegetable growing. Information re-garding 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, ONTARIO.

(2) Orchard Diseases and Pests. Nurseries and orchards are inspected: (2) Orchard Discasses 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, Guélph.

(3) Beekeeping. Regarding any phase write MORLEY PETTIT Provincial Apiarist, O. A. College, Guelph.

#### 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 usets and funcues diseases of vegetables, write ONTARIO S. C. JOHNSTON, VEGETABLE SPECIALIST.

#### Ontario Agricultural Societies Branch

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 winning grain, sheaves and vegetables from these; ap-points judges, upon request, for competitions and fail fairs; arranges for the conventions of the Ontario Asso-clation of Fairs and Exhibitions and of the Ontario Ho-ticultural Association and acts as secretary of the On-tario Vegetable Growers' Association and of the Ontario Powmen's Association, Questions in any way related to any of these associations will be answered by entropender and the Same Face of the Same Face o SUPERINTENDENT J. LOCKIE WILSON.

#### **Ontario** Institutes Branch

Gives information and assistance to Ontario Farmers as follows: (1) The organization and man-agement of boards of agriculture, farmers' clubs, agement of boards of agriculture, farmers clubs, Women's Institutes. Patriotic work, Giris' Clubs, etc.; short courses in livestock and seed judging, and demonstration lecture courses in foods and cooking, home nursing and

invites you to make fullest use of its staff of farm experts. Each branch listed below wishes to co-Write directly operate with you. to each official, addressing him, unless otherwise directed, at Depart-ment of Agriculture, Parliament Buildings, Toronto. Your request

will receive prompt attention.

sewing. (2) Supplies speakers for agricultural meetings of associations and sewing. (2) Sapplies speakers for afficient meetings of associations and for courses as listed above. (3) Supplies milk record forms and general dairy information. (4) Upon request will supply to agricultural speakers alides (for projector) of weeds, livestock, poultry and poultry houses, and charits for illustrating lectures.

INSPECTED FOR DISEASE AND REST METHODS EXPLAINED

For complete information concerning any of the above or upon any phase of the work-of Boards of Agriculture or Women's Institutes write SUPERINTENDENT GEORGE A. PUTNAM.

#### **Ontario Cooperation 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 cooperation of every nature, such as the organization and business management of cooperative solicities-difficulties to be overcome, securing a proper manager, how to incorporate and to raise funds; lists of farmers' clubs, women's institutes, wholesale produce houses and other prospective customers; how best to ship livestock; book keeping systems for cooperative 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 cooperative associations either by letter or by personal visit. Write DIRECTOR F. C. MART. sell to advantage." This branch is maintained to aid farmers in the selling of DIRECTOR F. C. HART.

#### The Ontario Agricultural College

At the institution a staff of highly trained farm experts are in close touch with the farmers' affairs and the farmers' problems. Information upon practi-cally every agricultural subject affecting Ontario may be secured. Beseldes this, the College offers the young man and young woman from the farm a practical and efficient education in narricultural science and domestic science respec-tively, at very small cost. Write DR. G. C. CREELMAN, PRESIDENT.

#### **District Representative**

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 Each year new builetins and pamphets 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 the farmer's business. They are ifee and may be secured upon request. Write for a list of those published and select the ones which will be most useful to you. For any bulletin prepared by any branch or division write THE ONTARIO DEPARTMENT OF AGRICULTURE, PAR-LIAMENT 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. Then you will always know exactly whom you can get the information from which you want-just when you want if. When writing please mention this advertisement and give as complete information regarding your problem as pos-sible. It will insure a prompt and satisfactory reply.



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DEMONSTRATORS ARE SENT TO OCHARDS, TO EXPLAIN THE PRACTICE OF PRUNING

Ontario Department of Agriculture PARLIAMENT BUILDINGS, TORONTO DR. C. C. CREELMAN. SIR WM. H. HEARST, Miniatar of Asricultur.

Each branch wishes to co-operate with You