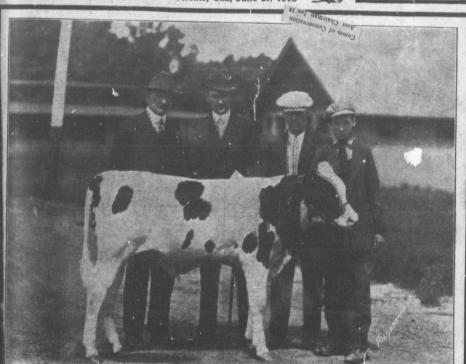
FARMAND DAIRY RURAL HOME



Toronto, Ont., June 20, 1918



THE \$106,000 CANADIAN BRED CALF, CHAMPION SYLVIA JOHAN NA.

From left to right, E. A. Stewart, bayer, Carnation Stock Farm, Seattle, Washington; A. C. Hardy, seller, Brockville, Ont.; Hamilton Lynn, herdsman.

No Time to Quit Dairying
A Review of the Situation, by I. M. Ross (Page 3).

The Balanced Unbalanced Rations
New Factors in Animal Nutrition (Page 5).

Aaking a Poor Farm Productive

Fertilizer Requirements of Ontario Soils
A Soil Survey by Prof. R. Harcourt (Page (4).

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ONE DOLLAR A YEAR.

Sharples "Upward Squeeze" is the correct milking method

A thous different experiments were tried before Sharples develope at he believed to be the correct milking prinous Sharples "Upward Squeeze" teat cup. And the Sharples Milker has confirmed his belief! alf a million cows are being milked twice daily

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Tests also have proved that the Sharples is the world's fastest milker Tests also have proved that the Sharples is the world's fastest militor. This has more than one advantage. Not only does it enable you to finish militing it one-half to three-quarters of the time required by other militors, but fast militing actually increases the milit flow. Perry Empoy, of Chestesville, Ont., found that his cows gave from one to five pounds more units per day with the Sharples Militor than when milited by hand. He offers his milit sheet to prove it.

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The Sharples Separator Co.

Toronto, Ont.

SYDNEY BASIC SLAG The Ideal Fertilizer for Fall Wheat

E Phates, R. R. No. I. Weihand, Out., writes on 12th May, 1915—
I'm rophy to your inquiry I put in shoat, forty acres of whites,
"hast fail and for experimental jumposes, your goods being new
'to this district, a applied Sydney Banic Sing to one of my
'diedas. To-day I measured the growing grain and found it
'diedas. To-day I measured the growing grain and found it
'years I have been famining I newer had such a fine crop and
"I am perfectly certain it cannot be beaten in Western Cistaria."
"Certifier prime simulated and I will only be too pleased to have
"the crop to any one you care to send to inspect it. Some of
'my neighbors who used Banic Sing on their whent are equally
"got a knowledge of your goods there will be a very large sale
"for them." Mr. E. Platts, R. R. No. 2, Welland, Ont., writes on 12th May, 1916:-

Sydney Basic Slag costs \$24 per ton at any station in Ontario and is the best value chiainable in Sections

The CROSS FERTILIZER CO., Limited Sydney, Nova Scotia

The Great Holstein Sale at Milwaukee Its Central Feature the \$106,000 Bull Calf—Other Items of Interest Gathered From Men Who Were There—By "Mac."

H OLSTEIN breeders in partigeneral received a severe jolt last week when the press despatches came in, telling of the buying in the consignment sale at Milwaukee of a Hölstein buil caff seven months old for the hitherte unheard of price of 5105,000. Naturally the question arises, what eafs is this which keen tains such animals? What other high priced animals were there; what particular merit was there in this calf to warrant such a price; what about the seller and who wer this unknown breeder who pays such a price for a single animal?

It was generally realized that some high prices would be paid. It was a sale of real quality stock, but it was a question if many Canadian breede were really aware that this bull calf was even consigned in the sale, to say actaing that he would bring over \$100,000. It is possible that previous to the sale a great interest was show and more conjecture was indulged in regarding Mr. W. L. Shaw's world's record heiter. This animal Het Loo Pietertje was sold the same day for

The Galf and His Breeding. But what is there about the breed ing of this buil calf to warrant a price of over \$100,000? To begin with he is an inbred May Echo Sylvia. Cana dians have claimed and Americans have aumitted ever since May Echo Sylvia made her phenomenal record of over 1,000 lbs. of milk in a week, and over 40 lbs. butter in a week, that she was he greatest dairy cow of all history. Her records are not freak records. They have been made during years of continuous work. However, it is dollars which count in this busi ness, and the real value of any cow lies in the price which breeders are willing to pay for her bull caives. The incident in question has proved our suppositions to be correct. May Echo Sylvia is the most valuable cow in the world to-day and the calf just sold is the most valuable bull.

Yes, his dam is May Echo Sylvia His sire is King Echo Sylvia Johanna the junior sire at Quentin McAdams Brothertown Farms, Utica, N.Y., whose dam is Belle Model Johanna 2nd, a twice 37-lb. cow and the only cow of the breed having three records above 32 tbs., besides having a daughter with three records above 33 lbs. His sire's sire is Avon Pontiac Echo, the oldest son of May Echo Svivia and stred by that noted bull King Pontiac Artis Canada. This, then, is his breeding and as the photo on our front cover shows, he is individually all that could be desired.

The Seller

Mr. A. C. Hardy needs no introduc-tion to Canadian breeders. At his farm near Brockville, under the able management of Mr. Ly in, some of the management of art. 12 n. some of me beat records of the breed have been made. Here Lady Waldorf Pictje made her 36 fb. four-year-old record and her daughter, Lady Waldorf Pictje 2nd made her two-year-old record of 26 lbs., besides numerous

How the Calf Soid

Whenever any sale somewhat out of the are always those who "fake," and no doubt been no exception to the Knowing this tendency on t Knowing this tendency on to many people, Mr. Hardy opportunity while attending well's esde at Oshawa last making a public stabement rihe matter. He said that so it was concerned when he put into the sale ring, he put him at the mercy of the public, absolutely to idea who the would be, or who the likely bidders would be and that while he was being sold, many of the men who were doing the bidding as well as the buyer were strangers to him. He also said that if anyone could prove that this had not been a genuine, above board sais he was willing to forfeit \$25,000

Tater on in the day while walting at the station at Oshawa for the Mes at the station at Canawa for the Me-treal frain, the writer got in conver-sation with Mr. Hardy. Mr. Hardy said that the whole thing was at great a surprise to him as it was to anybody edse.

The first bid was somewhere in

than \$5,000. Bids came slowly up to \$10,000, "John Armann's bid." Here he hung for quite a while, no effort on the part of the auctioneer seemler on the part of the auctioneer seeming sufficient to give him another start. Someone said, "Well John, I guessiones," This seemed to break the spell and almost immediate aomeone made an extra \$5,000 bid. Then he started in \$5,000 and \$10,000 steps wil he got up past the mark set last year by Mr. Cabana's \$53,000 call. Mr. Hardy said that there were several men bidding. Some of them he knew, but others were strangers to know, but chars were strangers to him. After this point, the bids cam more slowly. Several of the bider dropped out until it was left to hat the two men, Mr. Stowart of the Or-nation Milk Company and the other man, who, if Mr. Hardy informed the At several times, the latter gentleman was about to drop out. When he price was about \$50,000 he would have done so, but one of the promis-ent American breeders came up to him and offered him \$1,000 each in service fee for several of his core. This gave him courage and each time that he seemed to be getting "weak in the knees," a few more of the bresters would bolster him up by making the same offer. By the time the bits were nearing the six figure mark is had \$18,000 already promised in the way. Finally Mr. Stewart bid in oven \$100,000 and it was only win great persuasion that the competiter was induced to make the next bid of \$5,000. However, he did so, but when was immediately covered by a extra \$1,000, he decided to drop on leaving Mr. Stewart in possessi the bull.

Mr. Stewart is manager of the Ca-nation Milk Company of Seattle While this is their first really seastional buy, they had a been in the Halstein business for some time. The have several large herds in the state of Washington and should be in a position to satisfactorily handle a bill of this sort. With 600 cows in on barn besides their several othe farms, the income from the offspring of such an animal is almost beyon the average powers of comprehensia. When we consider this fact and the general publicity and eminess which will come to the man who paid such a price, it is easy to unde thow such a price is profitable. In fact, it is commonly said that perioding a breeder has the right kind of females, the higher price he pays for this herd size. While this

Mr. Hardy chis sale a .tend from on world to the achieved in any other way. breeders it general, we are unitedly wish Mr. Stewal me offer Mr. Hardy the atulations on the promis has achieved, a promis till be shared to a or his fellow Hoistell



Trade increases the wea VOL. XXXVII

Europe i

T is usually quite hard to good for him when his f direction. In the same w thing in the world to lead an heading for ultimate, rather

This is how it is with the ada at the present time. It he of a grouch. It is kicking and naturally, is not gaining is a pity for its own sake, a

In plain English, the dairy to miss the best opportunity He is being penny-wise and I the brake on an industry w Canada's greatest after the that he is not looking beyon dering around in a circle a problems in the spotlight of vantage. It does not take realize that the dairyman we now is going to help himself war time personal relations r

The dairy farmer has tak consuming public has got to up. He raised the price of people jumped on him-very had a whole lot of problems to wife knew nothing about. If have been so ready to blame have been so ready to blanke remember—that since the begi price of cows has gone up 50 r cent., and labor 75 per cent. I increase in the price of milk h cent.; butter has advanced al cheese 50 per cent.

cheese 50 per cent.

Price Up—Consump
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He has not seen his way ver been kicking so hard that he chance to progress. He sees the dairy industry and feels the on the part of the consumer. clear as in 1914; if the Atlan danger; if there were as much salle now as before the war—al would go ahead. As it is, he c callies of export and feel the the pari of the public. What together is the fact that after t dustry of Canada may be fairly fightly reportions. gigantic proportions.

And why?
Because Europe to-day, in her eff her breeding animals. This are that all nature robels against. It is exacts her toll for such wan then it has to be, when there chamoring for meat.

Not only the think the past is such that the past is such that it is not to the think the past is such that the past And why

way and Sweden, for Instance, from foreign countries have far e ber own possessions. In future on her colonies for dairy produc colonies she will lean most on C This is one sallent point for to remember when he is facin



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

VOL. XXXVII

TORONTO, ONT., JUNE 20, 1918

Its No Time To Quit Dairying

Europe is Slaughtering Milch Cows for Meat and Future for Canadian Dairyman Looms Gigantic

T is usually quite hard to convince a man what is good for him when his face is set in the other good for min when his face is set in the other direction. In the same way, it is not the easiest thing in the world to lead an industry along the road heading for ultimate, rather than immediate advan-

This is how it is with the dairy industry in Canada at the present time. It has a grouch on—ne end of a grouch. It is kicking every inch of the way, and, naturally, is not gaining much momentum. This is a pity for its own sake, as well as for the sake

In plain English, the dairy farmer is bidding cair In plain lengths, the dairy tarmer is obtained to him. He is being penny-wise and pound-foolish by putting the brake on an industry which should be one of the brake on an industry which should be one of Canada's greatest after the war. The trouble is that he is not looking beyond to-day. He is mean-dering around in a circle and failing to see his problems in the spoilight of national economic ad-vantage. It does not take much perspicacity to realize that the dairyman who helps his country low is going to help himself in the future, and in war time personal relations must be subservient to the national cause.

the national cause. The dairy farmer has taken cold feet and the consuming public has got to help him warm them up. He raised the price of milk and immediately people jumped on him—very unreasonably, too. He had a whole lot of problems to meet that Mrs. Housewife knew nothing about. If she had she would not have been so ready to blame him. There is this to remember—that since the beginning of the war the price of cows has gone up 50 per cent., feeds 75 per cent, and labor 75 per cent. During this period the increase in the price of milk has been under 30 per cent. also have a service about 46 per cent and cent. butter than safwanced about 46 per cent and cent.; butter has advanced about 40 per cent. and cheese 50 per cent.

Price Up-Consumption Down

cheese 10 per cent.

the price Up—Consumption Down.

As the price went up, consumption went down. The dairy farmer was discouraged. He was having the time of his life securing labor. Five years ago the cust of labor on a dairy farm ranged from 125 to 500 at month. Now it is saywhere from 33' to 500 at month. Now it is saywhere from 33' to 500 at month. Now it is saywhere from 33' to 500 at month. Now it is saywhere from 33' to 500 at month. Now it is saywhere from 33' to 500 at month. Now it is saywhere from 33' to 500 at month of the say the s

And why

Because Europe to-day, in her dire need, is killing of her breeding animals. This is the kind of thing that all nature rebels against. In the final analysis, she exacts her toll for such wanton destruction—but then it has to when there are starving people clamoring for meat.

Creat Britain's Marketa for Us.

Not only that in the past Britain has imported much of her hutter from markets which are now est off for various room markets which are now est off for various room from the fact of the room foreign countries have far early imports from foreign countries have far early flower from her own possessions. In future she will be no most of the fact of the room foreign countries have far early of all her colonies she will lean most on Canada. This is one salient point for the dairy farmer to remember when he is facing odds. Britain's Great Britain's Markets for Us.

By I. M. ROSS, Canada Food Board.

shortage of butter, due to the war, is 209, 48,784 pounds. Of this vast amount Canada solu only 7,121,568 pounds to the Motherland last year. The isproportion is striking.

disproportion is striking.

It is true that there are more mileh cows in Cauada to-day than there were in 1914, but the numbers

ada to-day than there were in 1914, but the numbers are relatives an anil when we compare them with the figure for such diminuive countries as Denmark and, indeed, England itself. In 1914 there were 2,672,288 miles cows in Canada; to-day there were 2,672,288 miles cows in Canada; to-day there are approximately 3,500,000.

Canada as only about one-seventh the number of cows of the United States. She has fewer than Great Britain and Iroland; fewer than Prance and ont many more than Denmark. The French cow population as failen off by 21 per cent. as a result of the war. The British cow population is still normal.

Our Exports Increasing. Why doesn't Canada increase the size of the milch



Canada First in Food Production Per Capita

Dr. C. A. Zavit., O.A.C., Guelph, Ont. Dr. 6. A. Zavis, O.A.C., Guesph, Ont.
OR the three years previous to the war, vis.;
First, 1922 and 1943, the average crop scremations of the world, or more previous and statistics are not available, are given in the
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Countries. Canada
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If will be seen that Cramida produces, per
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cow herds? It is a certainty that this European cow herds? It is a certainty that this European abortage will create an overwhelming demand not only for dairy products, but also for cattle. Some-thing has to be done to replace the 28,000,000 hea/, that Europe has been obliged to send to the shambles. Even as things are, our hold on European markets as gradually attemptioning, when date producted is gradually strengthening where dairy products are concerned. The following table of exports a

Broke tillia		Control of the second second
Cheese	1913. .155,216,000 lbs, . 828,623 " . 335,845 "	1917. 180,733,426 lbs. 7,990,900 "

Hon. T. A. Crerar, Minister of Agriculture, sees great possibilities for Quebec and Ontario capturing much of the dairy trade of Norway and Denmark; while the Maritime Provinces, besides sharing in the markets of the old hand, should be able to command an ever increasing trade with the Eastern States in buttler and cheese, he believes.

The three million and might house that the contractions of the contraction of the contractio

The three million odd milch cows that are The three million odd miles cows that are scat-tered over the country at the present time repre-sent more than the milk supply. The butter-making, cheese-making, condensed milk and ice-cream indus-tries depend on them. So that there are more forces at work where the dairy farmer is concerned than the average man, or woman suspects when they are

at work where the dairy farmer is concerned than the average man or worm the average man or worm the street of the Board says to the dairy armer: "Go ah steam," and to the public use more milk. age the dairymen."

Remember this! Milk and all its products are the cheapest forms of animal food on the market to-day.

The price of milk has not increased to the same ex-

The price of milk has not incre: "at to the same ex-tent as the prices of other foods.

Skimmed milk should figure more prominently in overy woman's list of substitutes. It is good fare, it atimulates growth and is wholesome at all times.

It atimulates growth and is wholesome at all times, if the women demand it, the farmer will supply it. Let the consumer do his part and the producer soon take his cue!

It is estimated by the Department of Agriculture that the daily consumption of milk by the urban population of Canada is one-half pint per day per capita. The more skimmed milk used in Canada the more cream there will be to make into butter and more cream there will be to make into butter and cheese. Milk can only be sent overseas in restricted quantities, condensed or powdered. But butter and cheese are needed in immense quantities. The Canadian of the condense of milk pewder and 2 ounces of butter, 1 canes of milk pewder and 2 ounces of butter, 1 lessifies this, the civilian population of Europe is in dire need of the fats which we are not sending them as freely as we might.

There need be no skepticism about the foreign market for dairy products. It is a reality. And it astretches into the future with infinite possibilities.

Anyone who is expecting to raise a number of hogs during the coming season, should try to get some seed of an ear buttiring corn, such as Questions seed of an ear buttiring corn, such as Questions seed of an ear buttiring corn, such as Questions of the parties of the summer. The season of the pastured the profusibly be pastured to the profusibly be pasted of the pasture, and might profusibly be logic come of the pasture, and might profusibly the profusible Anyone who is expecting to raise

The Fertilizer Requirements of Ontario Soils

Sidelights on the Soil Survey Now Being Conducted by Prot. Harcourt

In the past three years, all unknown to the most of us, the soils of Western Ontario have been curveyed and classified by soil experts, working under the direction of Prof R. Harcourt of the Onunder the direction of Prof It. Harcourf of the On-tario Agricultural College, Guelph The Initial sur-vey work in the western counties has now been com-pleted. The soils have been broadly classified as to their physical composition and the samples taken by berings on every sideroad and by-road west of

Toronto are now being sub-jected to a chemical analysis. Similar work will be started in Eastern Ontario his sumly completed our knowledge of Ontario soils and their fertilizer requirements vilil have been increased immensely.

A couple of weeks ... o Prof.
Harcourt gave the editors of
Ontario's agricultural publications an outline of 'he work accomplished and a glimpse of some of the more important conclusions arrived at

Roughly, the soils of Western Ontario may be divided into two general classes: (1) The lowlard or deposit soils. once on a lake bottom; these for the most part are heavy clays (2) The upland soils on the other hand are glacial deposits and a.e generally gravels an loams, and it is on these soils that the prob-lems of fertility are of most moment These requirements, Prof. Harcourt classifies under three heads—organic matter, lime and "hosphorus. "Organic matter," said he, "is at the basis of all fertility problems. Organic matter of

pronems. Organic matter or humus in the soil holds water and provides the agencies by which plant food is made available." Organic matter is generally found in sufficient quan-tily in the heavy clays when at all intelligently farmed, but in the upland soils the maintenance of organic matter is one of the big problems of soil management

Lime Needed in Ontario

Few realize how generally lime is required in the sol's of Ontarlo. In the borings made by Prof. Har-court's assistants it was found that, on the average, lime was not found in sufficient quantities until a depth of 24 to 28 inches had been reached. where lime was originally present in large quantities, for instance in soils of limestone formation there may not now be sufficient lime in the surface soil to properly nourish a crop. The organic acids soil to properly nourish a crop. The organic acids formed in the soil bring the lime into solution and in a soluble form it leeches down into the subsoil. This will happen in the richest soils and the better a man farms and the more organic matter he incorporates in his soil, the stronger will be the acid soil solutions and the greater the Hability to lime leeching out. In the long run, therefore, the men whose farms will need lime applications must are those who farm the best. Prof. Harcourt mentioned it as a common observation over Ontarlo that clovers when first seeded would make an unsatisfactory. It as a common observation over Ontario that clovers when first seeded would make an unsatisfactory growth, but once they had gotten their roots down into the subsoil would grow luxuriously. "This is because the roots have reached a supply of lime," said Prof. Harcourt. "I am convinced that in many cases the winter killing of clover in Ontario is due to nothing else than an acid soil."

to nothing else than an acid soil."
"How much can one afford to pay for ground limestone?" was asked.
"Just as much as the farm would be worth without it," replied Prof. Harcourt, "and that might not be much. If a soil is allowed to become depleted of lime it is done for so far as crop production is concerned." Even in the lowland clay soils the need of lime is often great. In what Prof. Harcourt called the "Haldimand" clay three is an abundant supply of lime, while the "Allicon clay limit and the "Haldimand" clay three is an abundant supply of lime, while the "Allicon clay limit and the latest affaffs thrives on the supplied of the supplied to t

It was mentioned at this point that alfalfa thrives on the Haldinand clay, but its growth is rather doubtful on the Milton clay. The lime content of the two soils explains the difference and the survey which Prof. Harcourt is just completing will show in a gen-eral way just where in Western Outsio lime appli-cations will be profitable and where a needed. One experiment of the strength of the needed one experiment of the strength of the an application, but it is not the strength of the transport of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength of the strength of the transport of the strength of the strength

Under average conditions an application of two tons, of ground limestone to the acre will rectify any lack of time in the soil. Where is this limestone to come from? Several companies in Ontario are now grinding limestone. A Buffalo concern has been making enquiries as to an Ontario market, and it is just possible that they will support offering their cheaply than any of the concess of ordering their products on the market. A still more promising



"This shows the up-to-date way in which our milk hauler delivered our milk last summer," writes Wm. Scoble, of Wentworth Co., Ont., in sending this lituatration to Farm and Dairy. The motor truck is coming into common use in collecting milk for city consumption.

source of supply is the cement companies, and just recently a representative of the Canada Cement Com-pany called on Prof. Harcourt to discuss the feasi-bility of making ground limestone one of their products. These companies own limestone deposits and they have all the facilities on hand for grinding Phosphoric Acid Needed

June 20, 1918.

There is a considerable section of Western Ontario where the soil is deficient in phosphoric acid, notably west and north from Guelph. Near Goderich, Prof. Harcourt spoke to one man who could not grow one tarcourt spoke to one man who could not grow onts without apprying phosphatic fertilizer. The farmers in this district, however, were buying ex-pensive mixed fertilizers to help along their crops when all 'that they needed was the cheaper phos-phatic fertilizers, such for instance, as super-phos-phate or ground phosphate rock.

An interesting and important result of the survey is Prof. Harcourt's announcement that Ontario soils are liberally supplied with potash which is now the most difficult to obtain of all fertilizer ingredients. most difficult to obtain of all fertilizer ingredients. In the first six heckes of soil there is, nywhere up to 40,000 lbm, of coll there is, nywhere up to 40,000 lbm, of per agree in Ontario. The new coll of the coll only 100 lbm, of pottain per acre, while mangels will take up to 300 lbm, or acre, it is evident therefore, that the potash supply in the first six inches of soil could not be exhausted by constant cropping in 100 years. The potash content runs from one and one-half in two per cent, but the content of phosphoric acid is as low as 2 per cent. Prof. Harcourt recommended that on these soils the nitrogen be gotten from the applications of barnyard wanure and from the growing of legumes, that phosphatic fertilizers only be applications or barnyard menure and from the grow-ing of legumes, that phosphatic fertilizers only be purchased and that the potash already in the soil be made available by thorough cultivation and by increasing the organic matter and therefore the or-ganic acids in the soil.

necreasing the orea-ic matter and incretore the organic acids in the soil.

A mere chemical analysis of the soils, stated Prof. Harcourt, will not determine just what that soil needs to grow crops as a chemical nalysis does not indicate the availability of the plant food of the soil. In this connection it is interesting the backyard gardeners of soil to Guelly raking for directions to sample of soil to Guelly raking for directions for a doctor who sent a soil sample about as big as a medical powder with the brief request, "Please prescribe." Prof. Harcourts reply was, "Sample too small for diagnosis." To determine what Western Ontario soils really need an it supplement the work of the soil survey just completed, it is planned to establish demonstration piots on which some simple fertilizer experiments will be conducted. These experiments will be conducted. These experiments will be conducted. These experiments will be the great of the soil survey is the soil survey is the soil survey is the soil survey. The sexperiments will be conducted. These experiments will be conducted. which some simple fertilizer experiments will be conducted. These experiments will test the general effects of organic matter, lime and phosphorous on the growth of various crops. These demonstratis plots will be widely scattered over Western Ontario, special care being taken to have a plot on each different type of soil. The result of all of this work will be an ability on the part of the star* of the O. A. C. to give really intelligent directions to fam-ers as to the Fertilizing of Ontario soils.

Making a Poor Farm Productive

"Mac" Visits an Old Friend and Learns a Few Things

H OW often we entertain misconceptions as to the operations of our own neighbors! There are men whom we have known for some time and whom we unconsciously think of as "nuniness farmers." We know that they sell from their farms a tremendous quantity of produce. They are generally considered "Big" farmers, and yet when we some to find out, all the land they work may not be more than one hundred acres or even less. We wonder what is the secret of their success, and usually find that dairy cows, covered ditches, and

general careful farming have played a large part in working out the success that has been achieved. Such a farmer as this is Wm. Campbell, who lives three miles north-west of the village of Maxville, in three miles north-west of the vinage of analysis. Glengarry County. I had lived within a couple of miles of his farm for eight years. I had driven past his gate dozens of times and had seen his team passing into town morning after morning with the wagon well loaded with milk cans, and had, without taking the trouble to enquire, gathered the idea that he was one of the more extensive farmers of the district.

It was not till recently, when in the neighborhood,

It was not till recently, when in the delighorhood, and I called on Mr. Campbell, that I found out my mistake. As we walked through the big barn and looked at the rows of heavy producing grade Hoisteins. 26 milkers, besides young stock, the stable full of farm horses, and the flock of sheep. I saw full of farm horses, and the flock of sheep. I saw everything to confirm my former opinion as to the size of his farm. When I casually asked him how much land he owned and he informed me that he had, all told, 125 acres, but that quite a bit of it was occupied by bush and rou." pastured to the than surprised. "How much feed do you buy?" His enerty was "Nothing but a few from of concentrates." reply was "Nothing but a few tons of concentrates.

The Secret.

The Secret.

Then Mr. Campbell grew reminiscent and said,
"This farm wasn't always as productive as it now
is. When I came here 18 years ago there were throp ponds which drained across what is now a fine

level flat, and kept the whole thing just one great bog. The drier ground had been cropped with grain for years till it simply wouldn't grow anything."

for years till it simply wouldn't grow anything."

Mr. on the body was thus p against two problems of draining these wet lands, and of restoring the formal that the second to the second the second to the second to the second to the second to the second the while the poor soil was being improved, he must bring his bog land into production as well. To second the second to the second to the second the second to the second the second the second the second that the second the second that the second the second the second that the second the second that the second the second the second that covered ditches in the other low spots and the brought into satisfactory production spots which formerly were so sour that they would not gow anything but "horse tails." Regarding the change that during the intervening time had been worked on the farm through proper handling, Mr. Cambell and, "When I took my first crop off that eightsers field, I got two loads. Last year I took eight loads off two acros of it."

In equipping his farm Mr. Campbell has not gost to any unnecessary expense. He says that he has preferred to invest his spare cash in improving the preserred to invest his spare cash in improving use land. However, soon after taking over the farm, be was obliged to build a barn. This still stands, a fee large structure which is both comfortable and cov-venient. A few years ago he built a concrete sik a cement block milk house, and at the time of my

a cement block milk house, and at the time of my visit had just erected a new iron frame machine shed. The latest addition to the farm equipment is the milking machine. In speaking of it Mr. Campbel said that up to a few days before he bought be machine he had no intention whatever of doing the He had always had sufficient help for milking had got along airlight. However, the had got along airlight. However, the had not got his mix (Continued on page 13.).

THESE experiments for show the limitations of a balanced ration are yery great importance of o sides protein and energy is diet. It was, indeed, surpris the common wheat kernel the common wheat kernel though lew toxicity, and the ter is of such great imports to keep in mind that, while mic standpoint it is imporwasie by conforming in fee the lowest requirements of it is also important to reme well to have sufficient excess necessary constituents in o safe margin for the anima tion of the amounts of two between two different ratio a serious matter, but when be a serious matter, but when be di none ration the effects trous. Similarly, as brough animals fed with wheat grain of toxicity may or may not the saimals, depending ent character of the other constanton. The necessity of cofactors as toxicity, suitable grounding substances or vity proper balance of salts, indifferent control of the constant of the c



The Effect of Ad A cow and her caif showing the and alfalfa hay. With half the r restation period was successful, was apparently healthy and vigo

is that the relative importance clearly exposed in order that various feeds in their proper containing.

A word about vitamines. T identified chemical substances absolutely necessary for growt Without them no growth will ! pear to be abundant in milk a leafy portion of plants. One cla -is abundant in seeds, while an is abundant in seeds, while an is fat—is apparently not so abut know very little about either that both kinds must be present a ration is to be complete. Owheat ration are not to be attrictly of the fat soluble vitamine shifting which contains it in ply of the lat soluble vitamine statefat, which contains it in improve it for reproduction. The mines—the water soluble type—plied by the wheat grain.

A number of years ago chemist animals to grow on rations which mixtures of carefully purified prof mixtures of carefully mixtures with an asial mixtures under the same asial mixtures under containing the same and the same same same and the same same same and the same and t

When a Balanced Ration is Not Balanced

New Facts in Feeding for Growth and Reproduction That Upset Some Old Theories

(Continued from last week,



Two rate of the Same Age. Food Made the Difference.

The rat on the right received a small amount of butter fat; the one of the left received an equal quantity freshed believed by the left received an equal quantity from the left received an equal quantity from the left received an equal quantity from the left received and the leader of the left received and the leader of the left received and in the leader of the left received and in the left received and in the left received and in the left received by the ration. The hecessary of considering such for but factors at oxicity, suitable proteins, growth-geometring substances or vitamines, and a proper balance of salts, indicates how complex the groblem of nutrition really is and how necessary it

If we take such a mixture of foodstuffs which do not allow an animal to grow and sitr into it a small quantity of egg yolk, say for a pound of the ration an ounce of egg yolk, growth can be induced. The same result would be obtained if we had not to an ounce of each and the same result would be obtained if we had put in an ounce of we had put in an ounce or evaporated milk instead of the egg yolk. Suppose, now, that we take all the fat out of this satisfactory ration by extracting it with something that dissolves fats. Then it will be found that, though the will be found that, though the ration will be able to main-tain young rats without any increase in weight for about a month, it will no longer be able to induce growth. Only on restoring the extracted fats to the ration will prompt resumption of growth ensue.
A similar result could have

been obtained by adding butterfat or the fats obtained from certain animal organs; from certain animal organs; but other fats, such as lard, almond oil, and cottonseed oil, would not have brought about the same result. These facts might well cause us to stop and thing. Because of the fact that some fats na-

contain substances

to our ration prompt resumption of growth to our ration prompt resumption of growth will occur. It was not, then, the addition of fats alone, or substances carried by them that caused resumption of growth when up that caused resumption of growth when un-treated egg yolk was added, but it was the addition of fat soluble vitamines and water soluble vitamines. Both are indispensable for growth. Like the soluble vita-mines, the water soluble vitamines can be obtained from various sources. They are found in abundance in eggs, milk, grains

per obtained from various sources. They are found in abundance in eggs, milk, grains and in the leafy portion of plants, from which they can be readily extracted with water. They are not present in starch, sugars and fats and are found oily to a variety of the start the leafy portion of plants. The start the leafy portion of plants appears to these boundful supply of both classes of the supplementation of the supplementat

While the experiments outlined above what our knowledge of feeds is incomplete and that there is much to learn about physically balanced rations, yet the farmer would gain the state of th ledge; but the central nucleus of ration construction is sound and such results as given here should only whet our appetite for more knowledge and should not in the least shatter our faith in what we already

Eventually the balanced ration will mean the com Eventually the balanced ration will mean the com-plete ration, but that only when more knowledge is available; and the complete ration which we hit most of the inne now (but when we miss it are at a loss to know the reason thereof) will include more than protein and energy; it will include both of these, and in addition it will mean a proper mineral can-ter, and the state of the complete of the complete of the summit of vignines, and possibly things yet to be tent, an absence of poisonous materials, an adequate supply of vitamines, and possibly things yet to be discovered. Our understanding of nutrition must expand. Under conditions of forced restriction it is expand. Under conditions of forced restriction it is not impossible for a feeder or breeder to enter the danger rone, as in the case of the Nebraska farmers, and and only when we have complete understanding of all the nutritional factors required by animals and (Continued on page 13.)



The Effect of Adding Alfalfa to a Wheat Ration.

A cay and her calf showing the effect of a ration of wheat grain, wheat straws as a standard hay, With half the roughage as alfalfa hay, reproduction in the first gotalion and the strain of the stra

is that the relative importance of the factors be clearly exposed in order that we may place the radous feeds in their proper category.

A word about vitamines. A word about vitamines. A word about vitamines. These are as yet undestified chemical substances in foods, which are substantially necessary for growth and reproduction. When the substantial is not provided by the substantial in milk and eggs and in the last product of plants. One class—soluble in water is abundant in seeds, white another class—soluble is fat—substantial in seeds, white another class—soluble is fat—substantial in seeds, when were little to the substantial in seeds. We have very little to the substantial in substantial subst shierfat, which contains it in abundance, did not improve it for reproduction. The other class of vita-mines—the water soluble type—was abundantly supplied by the wheat grain.

sist by the wheat grain.

A number of years ago chemists tried to get young tainals to row on rations which were made up of animate of carefully purified proteins, carbohydrates, his and sulfatures from the chemical laboratory. These sail mixtures from the chemical laboratory. These sail mixtures must contain all sails which are left as all mixtures must contain all sails which are left as all mixture, the contain all sails which are left as an include of the sails which are left as a sail mixture, phosphort, and hydroched acide. When such rations are fed, the animals not only do not grow, but they will not live sufficiently of time, ordinarily not over two souths. The easeential thing to remember about these experiments is that the foods used were lightly purified.

necessary for growth while other fats do not contain such substances, there has arisen the necessity of speaking of the presence or absence of fat soluble vitamines. vitamines are closely, though not exclusively, associated with fats, as seeds to a certain extent and the leafy portion of plants to a considerable extent also contain these substances. Alfalfa leaves are a very good source these unknown constituents, these unknown constituents, although there is every rea-son to suppose that the for-age portion of plants in gen-eral is a better source of this class of vitamines than the

grains.

Another Class of Vitamines.

Besides the fat soluble type
of virtualnes we have still another class to constitute to the control of virtualness of constitute to open the control of the control



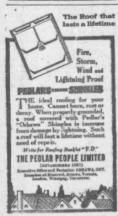
The Effect of the Wheat Ration Fed Continuously.

The same cow shown, showing the effects from the continuous feeding for the second greatation period of a nation of wheat grain, wheat straw, and alfalfa hay. This cast was carried to to time, but way weak, and at first was fed from the cast was carried to the district of the cast was fed from the cast was fed from the first few days of its life on the fer legs were so weak that it stood for the first few days of its life on the fer legs were so weak that it should the first few days of its life on the fer legs were so weak that it should be the first few days of its life on the fer legs were so weak that it should be the first few days of its life on the fer legs were so weak that it should be the first few days of its life on the few legs were so weak that it is should be something the first few days of the first few days were days were days of the first few days were days were days of the first few days were days

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121



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Where fowls have good houses, are not over-crowded, and are proper ly fed, they do not suffer by being kept indoors during the bad weather

It is taking a big risk to continually change the bill of fare. Too many cannot let well enough alone

Thanks to the Pure Food Commi sion the time has arrived in the Unit ed States when cold storage and pr served eggs can no longer be puraded under a different guise. They must be lebelled just what they are. This be labelled just what they are. move not only protects the customer. but it gives the poultryman a chance to sall his fresh-laid eggs at a price that will give him his just dues

Geese thrive on the same food as that given other poultry. Grass is their natural diet but during the winter when grass is a scarce article. they do wonderfully well on a mash in which bran and meat scrap are well represented, with whole grainswheat and oats—at night. A pair of geese will produce an average of a dozen goslings each year and these find ready sale around the holidays.

The changeable, and at times hard winters we have been having, is a severe blow to the health of fowls. It is easy for them to catch colds, and the wide-awake poulterer is kept conroup is not heard so much now as formerly, and this is due, we firmly believe, to the poultryman grasping the fact that the more we keep our noultry to fresh air conditions, the hardier will they become.

It is claimed that the Commission ambants of New York City handle merchants of New York City handle 1,274,000,000 eggs every year. This makes New York the greatest egg-consuming city in the United States. One commission merchant who had an idle hour, got down to figuring. He learned that the hens of the United States lay about 15,523,949,196 eggs every year, and the egg measures about two inches in length. If all the eggs laid were placed end to end, the line would extend 4,923 miles— a line times the distance from New York City to Jacksonville, Florida; or it would go away out to San Francisco and start back to New York again.

No one can foretell the sex chicks while still in the egg. But it is known that eggs collected in the early part of the season will predomearly part of the season will predom-inate in males; also, when a cock had only a 'very limited number of hens to fertilize. The reason is that the cock in spring is in his full vigor, but hecomes less vigorous as the season advances. If the male parent is old and the females young more beha-ting the cocks will be had; the cocks will be it true if the cocks yang and the hons old. As to the shape of the eggs hens old. As to the rhaps of the eggs it varies according to the age of the layers; thus, the ages of pullets are smaller and more pointed than those of old bens. Long and pointed eggs de not give any more males than round once. Some say that the egg round ones. Some say that the egg produces a cock if its crown or air space is horizontal, a hen if it is oblique, that is, slanting. In our experience we have not found such results.—M. K. B.

Dried Eggs in England

THE high cost of eggs in England has led to the birth c. quite a new big business in dried eggs and eggs in solution. One large firm selling dried eggs has undertaken an extensive advertising campaign to push these eggs upon the attention of

retailers, who is their turn are being enabled by other advertising matter to attract their customers to the

The dried eggs which they advertise are entirely soluble and take up the water like a lump of sugar and thus water like a lump of sugar and thus give the perfect creamy liquid of a beaten shell egg ready for instant use on mixing. Dried eggs are no longer to be regarded as war food; they have come to stay. This firm predicts that in the near future the properly dried eggs will have become one of the very largest used and most important of

Turkeys and Their Management

URKEYS require a wide range as they do not endure confine-ment, being as yet rather wild in their habits, preferring to seek their feed in the fields than to stand around the farmyard. Where they can have the run of a farm they re-quire but little feed after they are a few weeks old until it is time to fit thom for market.

They should be fed a little grain each evening to keep them in the habit of coming home to sleep, yet this is not always effective, as they will not come home very regularly at the season when grasshoppers or other natural feed is abundant.

After the young turkeys, which are called "poults," are hatched, they should be kept for several days in a on to which is attached a small run. This should be ast on dry ground, and the sleeping part should have a board floor. Move the coop and run frequently, so the little poults can get at fresh grass. Protect them of the sun if the weather is at all warm, as they cannot endure direct sunshine when very young.

The poults may be fed bread which has been soaked in sweet milk and pressed as dry as possible by squeezng in the hand. A little fine grit and finely cracked oats, wheat and corn make good feeds for them. They like young onion tops cut fine, and these of pure water at all times. Good general thing, copy nature as nearly as possible, never giving really wet feed. The wild poult is a seed and grass eater, and there is no advantage in trying to change its habite of feeding when we raise it in the farm-Do not overfeed young tur-This is very easily done and leads to trouble. Feed them often, but never more than they will eat with a good appetite.

Place finely-broken charcoal where they can get it at any time. prevents bowel trouble. As the poults grow give them coarser feed and allow them to run about the place. soon as the young begin to show the characteristic red caruncles on the neck they are safe. This is called "shooting the red," and as soon as the poult begins to shoot the red the owner need not worry about keeping it protected any longer. It will then endure any kind of weather. Turkeys do best when they sleep out of doors or under an open shot, protected from the coldest winds. They are perfectly hardy and withstand the severest weather and do perfectly well. If they are kept in close houses they are likely to become diseased and lose their hardiness.

In the fall begin feeding grain to the turkeys in largar quantities, and towards the time they are to be mar-keted give them all they will eat Corn is a good fathener for turkeys. It makes the flesh sweet and tender, and puts a finish on the body that gives a numer on the body that gives it a very attractive appearance in the market. Wheat gives a fine, firm fleshing, but its feeding is now probabited by law.



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HORTICULTURE

Strawberry Growing in Prince Edward County*

Howard Leavens, Prince Edward Co., Ont.

S TRAWBERRY growing in Prince Belward County has assumed large proportions in the last five years, by the canning factories for the fruit as good prices. There are from 15 to 30 factories in the county, and although there are not enough berries grown to supply all the factories, enough factories run on them to take all that are grown. In fact the Domitian Cauners not being able to get enough berries from cattide growers have been growing a large acrossic principles.

The prices paid by the factories have been good, averaging about the cents the last three years. Last year 10 cents per quart box was paid for the whole crop. Good paid at home has not warranted very heavy shipping, as at least four cents per box more must be realised in order to pay the extra expense of boxes, crates and express. Also in shipping berries a great deal more care has to be taken in illing the boxes and sorting the rittle for the control of the control

There is considerable land well adapted to growing berries around Picton and Bloomshot, as well as in the restored and Bloomshot, as well as in the restored and an around a some black ground. I musliy a heavy coat of manure is applied to the land the season previous to setting the plants, and a hoc crop is grown to clear the land of weeds. Very little fertiliser has been used in the county, most growers depending on manure. Postatoes have been a favorite crop to precede as well as follow the strewberr crop.

The Varieties Preferred.

The main varieties grown have been the Wilson, Senator, Dunlap and Parson's Beauty. Probably 75 per cent. of the berries grown are the Dunlap. The main objection to the Dunlap is the white tip which affects the appearance of the fruit in the cas. The Parson's Heauty is a deeper red all through, and shows up better after being canned although the Wilson has the best quality of the three varieties.

Reason before last a blight affected a large number of patches and after two or three pickings the plants witted and died. This blight affected practically all varieties except a few plantings of Wilson berries, and they seemed immunes, a full crop being harvested from them. Whether this was due to the variety or the land or conditions under which they were handled I cannot say.

Some growers in setting the plants, especially where a number of acres are supported by the set of the set of

suits our conditions best.

Where the land is fairly clean of weeds, two crops are taken off before the patch is plowed up, although the

"A paper read before the second Fruit Growers' Convention.

second crop is not expected to be as heavy as the first. Some plow two furrows through the centre of each old row and cultivate this down after the first crop is harvested, and if the season is favorable the new plants will run during the fall, which makes a patch for another year, practically as good as a new set patch. The weather conditions have a good eal to do with this practice, and also the conditions of the land. Sandy loam can be plewed at any time, but some of the other soils, especially if there is a clay mixture, have to be plowed after a rain, and this dees not always come at the right time.

Winter Covering.

We find it necessary to cover the plants in the fall with a coating of straw for two reasons: In the spring if the plants are not covered, they are appt to heave not covered, they are appt to heave not covered, they are appt to heave not wing weather; and resemble there is not straw enough around the plants at pleking time the fruit will be very gritty and diry, especially after a shower, which spatters the soil on the berries and makes them until for use.

The yield of berries varies a god deal according to the care and attending when the said the season. One or to 10,500 quarts into the 10,500 quarts into the 10,500 quarts into the 10,500 quarts from two acres. These parties make a specialty of pergrowing where some other growers having strawberries more as a sideline, have not had as large yields per acre, but possibly have not put on the same expense per acre. There is a good outlet for berries in shipping them by boat from Picton to Kingston, Gannanoque, Brockville and some of the smaller places along the boat route, as well as direct daily transfer of the smaller places along the boat route, as well as direct daily transfer to 15 mot as good a market for us as Lee Misgare. Fruit generally fills that

market.

So far there has been sufficient help for pleking the crop. This help comes from the villages and towns and also a good many families are moving in about that time, preparing for the factory season, although each season help is getting scarcer and the cost of the handling of the crop is greater.

A City Garden

A BOUT a year ago I was visiting a friend in the city of Ottax-be plot worked by the first of the city of the city

not help responding to.

The incident, however, goes is show that growing crops as not merely petting in the seed and has assured of a hundred fold increas. There is many a slip 'twist he and the lip, and often a for or sifterence in the planting of a crop, at the content of the soil, depth opinion of the soil and the conference in the depth opinion of the soil and the soil of t

Sunday Labor in Cor

Tuno 20 1910

N Friday, May 30th, operating a condense tory at Aylmer issues to larmers supplying it wit questing delivery of the night and Sunday morning Sunday.

in support of this reques pany stated that, up to the circular, Sath-Yaday in had been delivered at the late as eleven p.m., and the castilates keeping factory who handle scales, tank was sent to the control of the c

ceive milk seven days a we while the request for de milk on Sundays is urged as milk on Sundays is urged as time necessity," a correspondent that, if the custom lished during the war, it is remain after the war is overrespondent's assertion founded. All the arguments i war-time necessity' will be strong after the war as they war-time necessity' will be strong after the war as they war-time necessity' will be strong after the war as they saw the factory will not sunday labor now demanded toy employees, but will racease it. Sunday will be stm any other day in the week as factory operation is concerned.

The question raised here is a greater question involved greent-day civilization. A amount of Sunday labor is used under present-day labor is used under present condition necessity should be most shown for every operation per on that day.—Toronto Globe.

To Limit Profits of Prod Dealers

THE Canada Food Board had an order which is exdefinitely to prevent as definitely to prevent as tons in the produce business, a continuity profits to a reasonable in ever cost. The order provides an and after July 1, no person divisional in meats, lard, cheese as the contraction more than 10 per certain dealers, ashall charge on transaction more than 10 per certain to prove his cost price delivered to bene. When sainside men are ployed in buying, or when cuism is patid, the charge for sun in the provided in the computing whall not exceed recognized for buying or the cuism for the cuism is patid.

ary commission paid.

In selling to another whole dealer the charge on each transament not exceed the cost price.

more than 4 per centum.
When selling prints of butter w
have been moulded or cut by hin
have been moulded or cut by hin
have been moulded or
the to charge an additional pric
cover the cost of such mouldin
cuting, but this additional
must not be more than 3 per cer
of cost.

a cost.
In selling or storing eggs that I have less candled by himself, the when candled by himself, the whole candled by himself, the was a dozen to cover cost of or tests a dozen to cover cost of or figures, and loss from himself, case, fillers, and loss from himself, case, fillers, and loss from himself, case, fillers, and loss from the candles ggs and so that have than 3 per centum to cost of labor and loss from defections of the candless from defections.

when the produce dealt in been held for more than thirty d he cost of holding or carrying i Sunday Labor in Condensery

Ouncay Labor in Consensery

N Friday, May 20th, a company
operating a condensed milk factory at Aylmer issued a circulato inmers supplying it with milk, requesting delivery of the Saturday
night and Sunday morning supply on
Sunday.

an support of this request the company stated that, up to the date of the circular, Sattrue, might's milk and seen delivered and the factory as late as eleven p.m., and us factory who handle scales, tanks, etc., at work until one o'clock Sunday morring. This system, it was added, ascessitated other factory employees, engaged in cooling, and condensing, remaining until four to six o'clock Sunday morring. It was further stated that the delivery of Sunday's milk and Monday morring, added to that carried over from Saturday night, meant practically the handling of two days' support of the sunday of two days' and the factory. It was said, place for employment and undesirable place for employment and undesirable as difficult for the company to coalesse with factories in eastern Ontario and the United States, which receive milk seven days a week.

ceive milk seven days a week.
While the request for delivery of
milk on Sundays is urged as "a wartime necessity." a correspondent contends that, if the custom is established during the war, it is likely to
lished during the war, it is likely to
correspondent; a sasortion is
tounded. All the arguments based on
"war-time necessity" will be just as
strong after the war as they are now,
Moreover, delivery of milk on Sunday at the factory will not reduce
Sunday labor now demanded of factory employees, but will rather increase it. Sunday will be simply like
any other day in the week so far as

any other way in the week so far as factory operation is concerned. The question raised here is part of a greater question involved in our present-day civilization. A certain amount of Sunday labor is unavoidable under present conditions, but necessity should be most clearly slown for every, operation performed on that slay.—Toronto Globe.

To Limit Profits of Produce Dealers

THE Canada Food Board has passed an order which is expected definitely to prevent specular in the produce business, and to limit profits to a reasonable margin the produce business, and to limit profits to a reasonable margin wholease in meant, a preven dealing wholease in meant, a preven dealing wholease in meant, a prevent and a construction of the produce of th

in seiling to another wholesale dealer the charge on each transaction must not exceed the cost price by more than 4 per centum.

When selling prints of butter which here been moulded or cut by himself, the wholesale dealer may be permitted to charge an additional price to cover the cost of such moulding or cuting, but this additional price mast not be more than 3 per centum of cost.

in cont. In selling or storing eggs that have less candied by himself, the whole-sea candied by himself, the whole-sea candied seals and a self-sea candies of candies and control cover cost of candies ggs. As and the control cover cost of candies eggs. If he candies eggs for helder eggs. If he candies eggs for his cort of cold-storage he may add the cort than 3 per centum to cover the control control control cover the control control

When the produce dealt in has been held for more than thirty days he cost of holding or carrying may



ON June 22nd, Saturday, every man and woman, resident in Canada, who is 16

years and over, must attend at one of the places provided for registration, between the hours of 7 a.m. and 10 p.m., and there truthfully answer all the questions set forth upon the registration card.

Upon signing the card, vouching for the accuracy of the answers, the man or woman will receive a Registration Certificate, as shown below, which must be carried upon the person thereafter.

Why the Certificate is so Important

For failure to register a maximum fine of \$100 and one month's imprisonment is provided, also an added penalty of \$10 for each day the person remains unregistered after June 22nd.

Persons remaining unregistered cannot lawfully be employed, and cannot draw wages for work done after June 22nd. Employers who keep unregistered persons in their employ will be liable for fines equal in amount to those recoverable from the unregistered employees. Unregistered persons cannot lawfully purchase transportation tickets, and may find themselves barred from traveling on railroads, steamboats, etc. Similarly they may be denied board and lodging at any hotel, restaurant, public house or boarding house.

In a word—All persons remaining unregistered, and all persons having dealings with unregistered persons, knowing them to be such, incur heavy penalties under the law.

REGISTRAT	TION IS LAW— 16 Register Board
This Certificate is YOUR Protection. Get it and Carry it	Canada Registration Board This serthicate more number of the sertification of the sertificat





Three in One



A Unique Mutual Life Policy

THE "Paid-up and Maturity" policy issued by the Mutual Life of Canada is a proposition well worth your consideration.

A Life Policy

Under the terms of the Paid-up and Maturity Policy the profits may be accumulated in place of being paid in cash, or may be used to reduce premiums. In course of time the accumulated profits raay become sufficient to prepay all future premiums, and the policy will then be endorsed as

A Paid-up Life Policy

if the assured so desires: and this Paid-up Life policy will earn profits which will be payable in cash annually. If the assured does not wish a Paid-up Contract he can continue to pay the regular premium until the total of the reserve and accumulated profits equals the face value of the policy, which

A Matured Endowment

payable in cash if so desired. If neither of these options is selected, the profits will continue to accumulate and will be payable at the termination of the contract, if not previously

Thus an Ordinary Life Policy may develop into a Paid-up Life Contract, or a Matured Endow-ment, or an increasingly valuable investment.

The length of time required to develop the "Paid-up" feature or the "Maturity" feature depends partly upon the age of the assured but chiefly on the dividend-earning power of the Company, and, as "all the world" knows, the dividend-earning power of the Mutual of Canada is unsurpassed.

Write for full particulars of our different plans of insurance.

The Mutual Life

Assurance Company of Canada Waterloo, Ontario

Farm and Dairy stands foursquare against everything that is detrimental to the farmers' interests, and whatever appears either advertising or editorial, is guaranteed reliable.

be added to the cost price delivered to warehouse, and the cost of carry-ing may include storage at public tariff rates, insurance, interest at 7 per centum and shrinkage.

FEEDERS CORNER

Milking Three Times a Day

Wilking firrer limes a Day

UR cows are grade Holateins and
O Ayrshires with a couple of grade
Durhams. They are giving all the
Durhams. They are giving all the
Wolffren 10 to 8 lbs. of milk daily.
Wolffren 20 to 10 lbs.
Wolffren 20 to 10 lbs.
O to 10 lbs.
Wolffren 20 lbs.
Wolfren 20 lbs.
Wolffren 20 lbs.
Wolfren 20 lbs.
Wolffren 20 lb

alocki—"sariyman". Arienteul Co., Que. In Donmark, Sweden and other European countries, the practice of milking three times daily is very common, and evidently with their common, and evidently problem is practice can be profitably opportunities. It is doubten that in the problem is common and the problem is doubtful if the milking of a cow giving less than 40 pounds of milk daily in two milkings would pay for the extra labor of the hird milking. The extra milking in itself may be responsible for an increased milk flow of 8 per cent to 20 per cent, depending on the cows. For cowe carrying ing on the cows. For cowe carrying a very heavy flow of milk even these flurres may be exceeded. figures may be exceeded.

The common practice is to give the same number of feeds as number of times milked. Undoubtedly the heavy milking cow can digest more feed and produce from 15 to 30 per cent more milk under this system.—E. S. A.

Millet as a Feed

Williet as a reed

Williet as a reed

with with short of hap next year with
only about bait the usual supply of
acres over. We are planning on five
to know conventing about its feeding
value as counterling; about its feeding
value as conventing; about its feeding
value as convention; and the same in the
best hap't—"Cowbow," out to make the
best hap't—"Cowbow," out to make the
best hap't—"Cowbow," out to make the
best hap't—"Cowbow," after feed for
cows, its value depending largely on
the care in harvesting and curing. If

the care in harvesting and curing. If properly made it is slightly superior to average timothy hay but much in-ferior to clover or alfalfa. The comferfor to clover or alfalfa. The com-mon millet is the carliest, most drought resistant and makes the fin-est and best hay of all varieties. Mil-let hay should not be fed too liberally slise it may induce scours or similar digestive troubles. It should be fed to cows in conjunction with meal and silage or roots. Changes from other hays to millet must be made gradu-ally. Millet for hay should be cut when the heads of plants start to shoot. If left till later the stalks become too woody and more indigestible. Millet hay contains 1-3 less protein than clover hay and in a less digestible form, here more meal of a protein nature is needed in the ration.-E. S. A.

Use of Calf Meals

B are shipping milk to Montreal and getting aimset 35 a cwt., delivered, on hand and more are expected. These are pure-bred animals and we don't like to part with them. Will you give me are pure-bred animals and we don't like to part with them. Will you give me are pure-bred animals and me animals are successful to the second them. The second the second to the second the second to the second

It is not possible to raise as good heifers to eight months of age without whole milk or skim-milk and in the absence of these feeds greater care must be used. However, very good calves may be raised without these feeds and the somewhat later developing may be just as good at three years of age as the milk reared calves.

Remove dairy calves from the cow at birth. Do not allow them to suck, unless weak or unable to drink, or unless the cow's udder is severely

caked. Mother's milk for the first four days, at the race of 12 to 14 pounds divided into three or four feeds is essential. Continue whole milk till the calf is four weeks of age. Then during the following two age age. Then during the following two weeks grad-ully replace the milk wils a well prepared calf meal. There are many excellent calf meals on the market, such as Roya' Purple, Gold Dollar, C'aldwell, etc., etc., which will give good results. A home-made meal which make, a good milk substitute is composed of; Flaxseed, fine ground, la composed of: riaxseeu, nine ground, and sifted, 2 parts; corn, fine ground, 2 parts; wheat shorts, 1 part. Any such calf meal should be prepared by mixing with a little cold water to moisten, then pour on bolling water and allow then pour on boiling water and allow to stand for a time before feeding as a gruel. Feed at a temperature of 99 degrees F. Start the calves on half pound of this meal daily and increase gradually to two pounds daily till the calf is five months of age, when she may go on dry meal.

At three weeks of age, feed a small quantity of whole oats in the manger. Fine clover hay and clean water might profitably be kept before they from this time on. Replace the whole oats at four weeks of age with a grain mixture of equal parts bran, rolled oats, and ground corn.—E. S. A.

Grain on Pasture

Grain on Pastur:

O and I am debating whether or not to feed grain. A year ago I read in Farm and Dairy a statement by Mr. Grain and I am statement by Mr. Grain and I am a statement by Mr. Grain and I am a statement by Mr. Grain and I am a statement of the cow of

pasture, price of grains, and many similar conditions. When the good pastures are at their best it is doub-ful economy to feed grain to cows giving 30 pounds of milk or less, but with the heavy producing cows it is essential to feed some grain in order essential to feed some grain in order to uphold the milk flow. Although a cow may gather 50 to 75 pounds, or even more, of graus daily, this may not be sufficient to maintain a heavy flow and body weight. When the pa-ture is very watery it is necessary to feed some grain to balance the ratio and supply the necessary nutrients. However, as the pasture becomes bet-ter the grain may gradually be with-held and with the lower producers, discontinued. Good pasture is rela-tively high in protein, in fact almost tively high in protein, in fact almost perfectly balanced as to the relation protein and carbohydrates. As the grass becomes more mature it is more starchy and extra protein must be given in the meal unless a rich green feed, such as peas and oats, is avail-able. During the periods of dry pas-tures, late fall pastures and that of intense heat and files, it pays to grain feed milch cows in order to hold up their condition and milk flow till other feeds are available. Generally apeaking, for heavy milking spring freshened Holstein grade cows, it may pay to feed grain as follows:

1. On good pasture a grain mixture of bran, 4 parts; corn or corn bran, 2 parts; cottonseed meal or gluten or oil cake, 1 part; fed at the rate of one pound for every eight pounds of milk

2. On fair pasture a grain mixture of bran, 3 parts; corn or corn bran, 2 parts; and cottonseed, 2 parts; fed at the rate of one pound grain per eight pounds milk produced.

3. On poor pasture feed at least some green peas and oats or silage and a grain mixture of bran, 3 parts; corn or corn bran, 2 parts; cottonsed or oil cake, 2 parts; and gluten or dried distillers' grains, 2 parts; fed at the rate of one pound grain per 43/2 to 5 pounds produced.—E. S. A.

FIELD NOTE

Springtime Observation

Eastern Ontario To one who has been acc to farm life, and who for car window or from the ac auto, as he rides through country, has become accusto observe the little things of as he basses, there is nothin interesting during the present of the year than a trip thro meaning districts. During tempth has been my priv-spend considerable time in parts of the eastern part of vince, and possibly a few reasural observations would be treest to my readers. terest to my readers.

DOSSIBLY the thing that noticeable on such a trip is the fact that the farm e of all that may be said contrary, are putting in strenuous and busy season hours and shortage of help a hours and shortage of, help a in evidence at present. Owin fact that in many places ve plowing was done last fail th work has been held back to siderable extent. Land wh prepared in the fall in mot has been put in in good shap. good time, but there ar fields and parts of fields all neids and parts of fields all the country which were plow spring after the other crop but in and which cannot be on for a full crop during the season. One of the most set suits of this is where part of sults of this is where part of has been sowed at one time a at another time, thus caus evenness in the time of r The early part will necess overripe if allowed to wait later part, and the later part be ripe enough if the field it the proper time for the early Taken in general, the seed

Taken in general, the seed son has been a favorable one ern Ontario. In most district ers were not held up to ar extent by bad weather, a ground which was plowed in was put in in good time and There were some snape. There were some in the work of the or more of wet weather later up operations for a cons longer time, and at the time ing it is possible that there grain not seeded. However, it section such as this and in tile soil of the St. Lawrence this condition causes little

THE unusually severe wir also left its mark upon to of the land. During to month there has been much lation as to the possibilities fall wheat crop, and judging ent appearances the lowest e were the most nearly correct watching from the car through the counties of Hast Northumberland I noticed fields which appeared to he and there through them larg several of these I made the d that what I supposed wi grass was in reality fall whe farmers, who owned the fie ing to save every precious this crop, had left every litt even though it be only a few diameter, and worked up the the field for the spring cro spring crop coming up later fall wheat standing in patc and there through the fiel very much like bunches

FIELD NOTES

By "Mac."

Springtime Observations in Eastern Ontario

one who has been accustomed to farm life, and who from the car window or from the sac auto, as he rides throught country, has become accustomed to elsewer the little things of interest as he nasses, there is nothing more interesting during the present season of the year than a trip through the familier districts. During the nest month has been my privilege to spend considerable time in various parts of the eastern pair of the province, and possibly a few notes on natural observations would be of interest to my readers.

DOSSIBLY the thing that is most noticeable on such a trip as this is the fact that the farmers, in of all that may be said to the contrary, are putting in a very strenuous and busy season. Late hours and shortage of help are quite in evidence at present. Owing to the fact that in many places very little lact that in many places very little plowing was done last fall the spring work has been held back to a con-siderable extent. Land which was prepared in the fall in most cases has been put in in good shape and in good time, but there are many fields and parts of fields all through there are many fields and parts of fields all through the country which were plowed this spring after the other crep had been put in and which cannot be counted on for a full crop during the coming season. One of the most serious results of this is where part of a field has been sowed at one time and part at another time, thus causing un-evenness in the time of ripening. The early part will necessarily The early part will necessarily be overripe if allowed to wait for the later part will not be ripe enough if the field is cut at the proper time for the early part.

Taken in general, the seeding sea-son has been a favorable one in Easton as been a lavorable one in East-ern Ontario. In most districts farm-ers were not held up to any great extent by bad weather, and the ground which was plowed in the fall was put in in good time and in good There were some sections. however, for instance along the St Lawrence River in the more easterly counties, where the land is very level, that the soil had not dried sufficiently before rain came in order to get the crop in. Thus a wee or more of wet weather later on held a considerably longer time, and at the time of writ ing it is possible that there is still grain not seeded. However, in a dairy section such as this and in the fer-tile soil of the St. Lawrence Valley, this condition causes little alarm.

THE unusually severe winter has also left its mark upon the face of the land. During the past month there has been much speculation as to the possibilities of the fall wheat crop, and judging by pres-ent appearances the lowest estimates were the most nearly correct. While watching from the car window through the counties of Hastings and Northumberland I noticed many fields which appeared to have here and there through them large bunch es of couch grass. After noticing several of these I made the discovery that what I supposed was couch grass was in reality fall wheat. The farmers, who owned the field, wish ing to save every precious stalk of this crop, had left every little patch, even though it be only a few feet in diameter, and worked up the rest of the field for the spring crop. spring crop coming up later with the wheat standing in patches here and there through the field looked very much like bunches of couch grass, which is so commonly seen through the fields in many parts of the province.

Is other places the higher and lower parts of a field have been replowed and seeded with some other kind of grain, while possibly a sheltered hill face, running across the field, was still standing with a crop of fall wheat. Apparently the average farmer wishes to produce all the wheat that he possibly can, or he would not go to the trouble of leaving small patches and small strips scattered through his other crops.

OR is fall wheat the only crop which is killed out by the severe winter. So also is the clover. In most places the new seeding is coming through in good shape, but in many fleds, even of alsike clover, where there was a splendic crop last year, there is nothing left but a thin scattering of timothy. Just what this will amount to is difficult to say at present. In many places a second growth will come up later, if the weather is at all moisk, but in other places these fields will be practically unproductive unless they are plowed and seeded with some later crop.

The hay crop as a whole, however, appears to have come through in fairly good shape, and with a reasonably good season there should be a

fair crop of hay in Eastern Ontario.

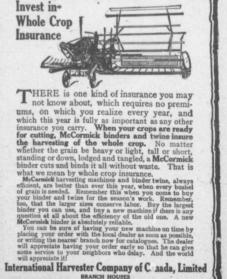
On one farm I saw a stoney field which had been seeded down a few years ago with a permanent pasture. It was a mixture of hardy grasses suitable to the district and had satisfactorily withstood several other cold winters. As it stands, to-day, however, the greater part of it is practically useless and will have to be re-seeded.

Another thing which appears to be the result of the unusually cold winter is that it may be apple the apple the search of the cold with the search of the se

One of the results of the labor scarcity and the desire on the part of the average farmer to produce as much as possible and produce as cheaply as possible is the increase in the use of three and four horse teams. This is particularly so on large smooth farms but we must admit that, in the use of such outfits, the Ontario farmer is still a long way behind where he ought to be. To one accustomed to working such outfits there is nothing more discouraging than to see a farmer walking back and forth in a fine level field following a two horse team There is no doubt that nicer work can be done, that it is somewhat easier to drive two horses than four and re-quires less time for hitching and unhitching, but man-power is at too great a premium to-day for it to be profitable, except on special occasions, for a man to confine bimself to the use of a two-horse team. The number of places where you see two or three two-horse outfits working on different machines in the same field are all too common. There are, however, many farms where four-horse outfits appear to be the general rule, a smaller number where four-horse outfits are in general use and on one or two occasions I saw one man handling as many as five horses.

If several places during the last month it has been my privilege to some across the Gevernment trac-





EAST -- Hamilton, Out., London, Ont., Montreal, Que., Ottawa, Ont., Quebec, Que St. John, N. B. 700

tors at work and the general satisfaction which they are giving certainly Two instances down in the Courty of Glengarry may be of interest to any one thinking of availing themselves of two opportunity of securing these

machines.

At the farm of Mr. D. P. MacMillan, who works over 300 acres near the town of Alexandria, I noticed a large double section disk harrow commonly used with the tractor and asked him regarding his success with its use. He said, "I have been both plowing and disking with the tractor. It plows my own horses. Consequently, I let Consequently, I let it do the plowing and in the mean-time I can find other work about the farm to do with the horses." On that day the tractor was working on the farm of D. A. MacLeod, a few miles south of the MacMillan farm, and when we drove up to the barn at Mr MacLeod's the engine was standing at the barn being replenished with gasoline, Mr. A. Kennedy, who was operating it, remarked that previous taking charge of this machine he had had no experience with engines of any kind and that so far he had had no trouble whatever in operating it. never been tied up with breakages. It was a 9-18 h.p. and when working at the MacLeod farm was pulling a double disk with a draw harrow tlad behind-a good seven-horse load. was covering 20 acres a day and leav ing it in excellent shape for the drill mg it in excellent snape for the drift.

With this outfit preparing the soil and three big farm horses on a 20 disk drill, Mr. MacLeod is putting in his crop in excellent shape and in

good time. We asked the operator if it seemed to injure the soil any and he said that le had often gone back over the field to try to find where the tractor wheels had run and he said he had never succeeded in doing so and that if the ground was fit to seed it was in fit shape to carry a tractor.

City Milk Supply

The Woodstock Dairy Company

OODSTOCK, in the heart of the great dairy county of Oxford, has a city dairy that is a model of its kind. It was the very modern and very new dairy building that first attracted the attention of one of the editors of Farm and Dairy when in Woodstock last fall dropped in for a chat with the man-ager, Mr. S. McCrimmon. "How is the company owned?" we asked.

"The Woodstock Dairy Company is joint-stock enterprise," replied Mr. eCrimmon, "It was organized by a McCrimmon company of dairymen in January of this year, and we have been in this new plant since July. All of the shareholders and organizers of the enter-prise were in the milk business either as producers or peddlers. They were keen enough to see that a cen were keen enough to see that a cen-tral dairy company was going to be started some time, and decided that they might as well own the company. was subscribed, and the re tailers who did not wish to come in were bought out. Of course there are still individual peddlers in the town, but the great bulk of the milk "Then your producers are also stockholders?"

"Yes," agreed Mr. McCrimmon; "to a great extent they are.

'How then do you govern the price to the producer?"

The price is governed by the prices rate price is governed by the price is paid by the shipping station of the Toronto City Dairy. Any profits we may realize will be further divided among the producers in the form of dividends on stock,"

dividends on stock."
In company with Mr. McCrimmon
we then inspected the plant. We
found it to be a model for sanitary
handling of milk and equipped in the most modern manner. All o All of the equipment consisted of a pasteurizer milk cooler, bottling machines and bottle washers and sterilizers, and an ice machine which affor led the refrigeration. The company deals the refrigeration. The company deams in buttermilk, cream and butter as well as in milk. Of the latter about 1,300 quarts are handled daily. As a result of the formation of the company milk is handled in a more sanitary manner and with better satisfac-tion to the citizens of Woodstock than ever before, and economies of dis-tribution are also being effected.

Organizing an Association

RGANIZATION is in the air nowadays, and almost all that any body of men needs to promote an organization in their midst Just how easy this is done was illus-trated by Mr. F. Young, president of

the Guelph Milk Producers' Assoct how their asset ation, in telling ation, in tening now

"The price of milk to producers varied from \$1.40 to \$1.80 before wa tarted our association," Me Young. "The price was not enough and I rebelled. I got in with some of the heaviest milk pro-ducers of the district, and within a ducers of the district, and within a week we had an association of our own. They were all ready for just such a move. Now we are in a good position to dictate our own prices."

Milk Producers and Combines

ILK producers in the State of New York need fear no further prosecution under the combine farmers' representatives at the State capitol have succeeded in amending the anti-combine law, which maker contracts or monopoly illegal and void, and the clause now concludes with the following provision:

"The provisions of this article shall not apply to consertive associations corporate or otherwise, of farmers stock farmers and fruit growers, nor to contracts, agreements, or arrange ments made by sich associations"

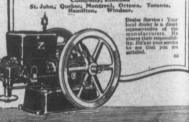
Milk producers in other parts of the United States, some of whom are the United States, some of whom are now under indictment by State au-thorities, have good cause for wish-ing that their own State governments were as considerate of the farmers interests as is the government New York State.

**** 1 1 E



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June 20, 1918

Senior Champion As lenhurst Torrs Mayor, own

A Balanced Unbalanced

(Continued from page what any natural feeding ma contribute to a ration will position to steer the breeder er promptly and accurately paths of safety.

paths of sarety.

It was to pave the way for quisition of such definite in that these experiments we and they have returned us a damental knowledge.

Up to this time we are sa corn plant will be found safe respect for a growing and

Wheat Safe in Combina
On the other hand, the wh
cannot be relied upon to fur quately the nutrients needed The mineral co the straw will in all likelihoo low in quantity. In addition, low in quantity. In addition, carries a toxic material terpull the animal down. Whe and wheat straw can be could be considered to the could be coul alfalfa hay or corn stover a ably other good roughages, ably other good roughages, clover hay, thereby supply mineral deficiency and at t time aiding greatly in ov the toxic effect of the whe These investigations with wheat should cause no all cerning wheat bran and wh dlings. They have been u success on countless farms, when used too liberally or the best roughages are they lajure the animal.

Rations made wholly from plant will be incomplete, and spring produced by the contin of such a ration will be dead The straw is the disturbing furnishing in most cases a quate mineral mixture. Mix



Gano Faforit Brave B He is owned by A. McNaughto this winner is an excellent spe-of good smooth type, and has placing



POR months we have been experimenting—investigating—testing—fighting, to find a way to make the Empire Milking Machine, already the unquestioned leader, still more efficient

for the dairy farmer THE BATTLE IS WON.

We have given the milking machine a new heart—the pulsator is the heart of the milking machine—and the result of our experiment, the new Empire Super-Simple Pulsator, is the mest wonderful development since the invention of the Empire—the competent milking machine.

To be successful a milking machine muse have a perfectly acting pulsator to cause the alternating action of imitate the

call's "suck and squeeze") to occur with absolute regu-larity; and to make the change from suction to massage and back again tantaneous. The Empire Super-Simple Pulsate

The Empire Super-Simple Fulsator, the pulsator without a piston, does that and more. It really is Super-Simple—so simple that it can be taken apart and put together again in less than two minutes. It has but five moving parts; nothing to wear out or 'get out of gear." It cannot lose wacuum, so its action is perfect.

MONTREAL

ably in advance of all competition. Your cows should be milked by an Empire Milking Machine with the new Super-Simple milk them more rapidly than ever-it will solve your labor problem—it will mirease milk production at a decreased cost; it will transform milking from drudgery into a pleasant chore. chore.
Our factory is overtaxed by the increased demand for Empire Milking Machines, so go to your dealer at once, see the new Super-Simple Pulsator and tell him to order your Empire outlit without delay; or write for Catalog. E

It places the Em-pire Milking Ma-chine immeasur-ably in advance of

THE EMPIRE CREAM SEPARATOR CO. of Canada, Limited,



Senior Champion Ayrshire Bull at the Ormstown Spring Show. Genhurs torres Mayor, owned by R. R. Ness, Howick, Que, represents the very best of the breed. From the tot phe shows real Ayrshire quality; the deep bodied, strongly constitutioned kind, the kind th at is being sought after nowadays.

A Balanced Unbalanced Ration

(Continued from page 5.)

what any natural feeding material will what any natural feeding material will contribute to a ration will we be in position to steer the breeder and feed-er promptly and accurately ito the paths of safety.

paths of safety.

It was to pave the way for the acquisition of such definite information
that these experiments were begun
and they have returned us much fundamental knowledge.

Up to this time we are safe in con-cluding that a ration made from the corn plant will be found safe in every respect for a growing and reproduc-

Wheat Safe in Combinations.

On the other hand, the wheat plant cannot be relied upon to furnish adequately the nutrients needed for such an animal. The mineral content of an animal. The mineral content of the straw will in all likelihood be too low in quantity. In addition, the strain carries a toxic material tending to pull the animal down. Wheat grain and wheat straw can be coupled with alfalfa hay or corn stover and probably other good roughages, such ably other good roughages, such as clover hay, thereby supplying the mineral deficiency and at the same time aiding greatly in overcoming time aiding greatly in overcoming the toxic effect of the wheat grain. These investigations with whole wheat should cause no alarm concerning wheat bran and wheat middlings. They have been used with sixcess on countless farms, and only when used too liberally or without the best roughages are they likely to injure the animal.

Rations made wholly from the oat plant will be incomplete, and the offspring produced by the continued use of such a ration will be dead or weak. The straw is the disturbing factor, furnishing in most cases an inadequate mineral mixture. Mixed with

some corn stover or legume hay the ration will be wholly sound for the production of strong calves. When half the roughage was alfalfa hay and half oat straw success was attained. While it is well known that consid-While it is well known that considerable trouble from contagious abortion is often met in dairy districts it should also be recognized by breeders that it is possible to produce dead or weak premature calves from the improper selection of feeds. This idea, we think, is new, and the facts adea, we think, is new, and the facts supporting this view are backed by numerous experiments. When such a condition, namely, the production of weak offspring through improper rations, exists, the remedy is compara-tively simple. The use of good roughages solves the problem. The condition of the straw-stack herd, without reference to what the calves may be, is direct evidence of poor

Making a Poor Farm Productive (Continued from page 4.)

to Borden's gathering station one hour earlier it put matters in a different light. They managed to get along till the hired man's wife took sick, and they were one hand short. This made them late on a few mornings, so rather than get up still another hour earlier they decided to put in a machine. So far it has given good re-sults. There are five neighbors right together who now milk with the ma-chine, and they are apparently satisfied with the results.

Crops. Mr. Campbell is a strictly dairy farmer. Apart from his flock of sheep, which he keeps chiefly for their weed destroying propensities and the poultry which are a valuable side line, the main income is from the milk. He farms by the "corn, cows and clover

Gano Faforit Brave Boy, Senior Champion at Ormstown. He is owned by A. McNaughtion, Dewitterille, Que. Though not a flashy at imal, the winder is an excellent specimen of the breed. He weights well over a tu, is of some shows.

All of the state of the s

method. He feeds what he grows and as far as possible grows what he feeds. However, in the case of feed-ing his milk cows he believes that it pays to buy a certain amount of the it pays to buy a certain amount of the concentrates to mix with the home grown grain.—"MAC."

P.S.—I do not know what Mr. Camp-

P.S.—I do not know what Mr. Camp-bell will say when he reads this. Pos-sibly he will not be pleased. If so, I apologize. When I called at his farm

it was not with the idea of making public property of his name. But I saw in the story of his success just the sort of reading that always acts as an inspiration to others of us who have the same problems to solve that confronted Mr. Campbell when he started a few years ago And I have found that men who have been really successful are always glad to give others the benefit of their experience

Made in Canada

A Tarvia Road to Market

What the steel rails are to trolley-traffic, the Tarvia road beside it is to horse and motor-traffic.

Over a Tarvia road, like that shown below, farm products

can come to market in any sort of weather with full loads and at good speed.

The use of Tarvia makes a macadam road dustless, mudless, frost-proof, and automobile-proof, and costs so little additional that the savings in annual maintenance charges will more than make it up.

A coating of Tarvia in time will arrest the deterioration of plain macadam and add years to the life of a road at much less expense than any other method.

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We shall not the same that the same that the soft of the same that the same

The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

"Read not to contradict and to confute nor to believe and take for granted, but to weigh and consider."-

A Look Ahead

HE scarcest thing I know of," wrote back a farmer's son from "over there," "is pasturage in France. If a cow found a blade of grass she's faint-but then, there aren't any cows." Well, that is going a little strong. There are still cows in France, several hundred thousand of them in fact. That the cow population of France has been seriously reduced, however, the most conservative authorities agree. Even so responsible a person as Carl Vrooman, Assistant Secretary of Agriculture for the United States, after considering the world situation, penned the following:

"There is no type of farming that has so bright a future as dairying. Dairy herds of the old world are depleted to an appalling degree. There is not a country in Europe where the people have enough dairy products, and this process of depletion will continue on as long as the war lasts. When the war is finished we will find the world with a demand for dairy products two-fold, four-fold, ten-fold greater than the supply. Europe will come to us with outstretched hands, every country in Europe will say to us: 'We must have milk; give us canned milk; give us dry milk; give us butter; give us cheese; give us dairy cattle; give us animals to build up our dairy herds again.' And unless America has stimulated the production of dairy products, and has increased the supply of dairy animals far peyond anything in the past, we will be utterly unable to supply this demand."

This is merely another way of stating that the after war demand will be greater for the finished products of the farm than for the raw products and all signs point to the correctness of this conclusion. Probably Mr. Vrooman overestimates the future demand but he is headed in the right direction. Great Britain has always been the world's greatest importer of wheat and other grains. During the war grain production in Britain has made tremendous strides and it is estimated that this year the home grown grains will meet four-fifths of British requirements. This increased grain production will not cease with the conclusion of peace and the value of the British

FARM AND DAIRY market to grain exporting countries will have been

seriously reduced. Other European nations, with population reduced by war and famine, will rapidly overtake their grain requirements.

But the re-establishment of the live stock industry and particularly of the dairy industry, will take years where the re-establishmentt of grain production on a normal scale will require but months. As we have stated many times before a long look ahead cannot but encourage the dairyman to maintain his breeding herd intact.

Representative Government

UR so-called representative government does not always represent. A case in point is the way in which our Federal Government handled the question of titles. The great majority of Canadian people would like to see titles abolished, at least 90 per cent. of us are not anxious to have the insignias of autocracy distributed in our democratic land. Legislators at Ottawa evidently understood the sentiments of their constituents and were prepared to vote titles into oblivion. The Prime Minister interfered. He threatened to resign if the matter was passed. He gave the members no choice. Their decision is a matter of history.

Did we have direct legislation such an incident would not be like. to occur. A plank in favor of Direct Legislation it found in the platform of the organized farmers of Canada. Its instruments are the Initiative, Referendum and Recall. Had we Direct Legislation in Canada the people could settle this question of titles for themselves. They would take the initiative by circulating a petition which would demand that the Government either abolish titles or submit the question to the people themselves in the form of a referendum. We could circulate such a petition at present but the Government would not be under any obligation to submit the referen dum. With Direct Legislation they would be obliged to. Under the Recall we could in a similar manner force representatives who are not satisfactory to us to resign and stand for re-elect! n. This would make a big difference just now in reference to the Military Service Act.

Direct Legislation, once on the statute books, would need to be invoked but seldom. The knowledge that the people had the power of initiative and recall would make legislators more representative and legis lation more democratic. We would never have such a spectacle as we had at Ottawa recently when the House of Commons acted in opposition to the wellknown will of the Canadian people.

THE youngest child of the Canadian Manufac-The Reconstruction Association

of the Home Markets' League, the Canadian Industrial Reconstruction Association, has at last been launched with branches at Toronto and Montreal. Already the new organization has been under fire and in the discussion that has ensued, it has become more and more evident, as was intimated in Farm and Dairy when its prospectus was first issued, that the one and only object of the new association is to defend the privileges of the manufacturers, particularly the protective tariff. The influence of the new association will also be felt in opposition to any attempt to place on the manufacturing industry any great proportion of that after war taxation that will have to be levied directly. Just where the manufacturers desire to see these direct taxes placed, is indicated by the utterances of their leading newspaper supporter, which is already educating its readers to believe that the farmers are not paying their fair share of federal taxation. Apparently, if the new organization is allowed to dictate our reconstruction policies, the farmers of Canada will not only have to struggle along under a greater tariff handicathan is now imposed, and which is heavy enough in all truth, but will be subjected to heavy direct taxation as well.

We know from past experience just how influential such an organization as the Canadian Industrial Reconstruction Association can be at Ottawa. The only safeguard of the farmer is further organization. Privilege has organized to attain all of the advantages that have enabled privilege holders to fatten at the public expense for more years than we care to remember. If we would oppose their organization successfully we must enroll in the organized farmers' movement, not 75,000 farmers, but hundreds of thousands. Not till then can we hope to wield the influence that will compel legislatures to give just consideration to our demands. The activity of our on popents should be our greatest incentive to still great er organizing efforts than we have displayed even in the last three years

The G.W.V.A. and the Y.M.C.A.

HE Great War Veterans' Association, during a recent convention, made serious charges as to abuses in the administration of Y.M.C.A. funds in France. Several returned veterans indignantly declared that they had never received any of the free drinks, food and tobacco which the association claims it distributes to the troops, and a motion of censure on the Y.M.C.A. was passed unanimously. As the Y.M.C.A. will be coming back to the Canadian people for further funds if the war continues for another year, it is essential that these misunderstandings be cleared up

In judging the issue between the Great War Veterans' Association and the Young Men's Christian Association, the public should bear in mind that the growth of the war efforts of the latter association to its present dimensions has occurred within the past two years. Although the Y.M.C.A. has operated overseas from the very beginning of the war, its first activities were severely limited and wholly experimental. It is quite possible, therefore, that members of the G.W.V.A., who served during the early months of the war, did not receive free drinks or food. Last year, however, the cost of free drinks, writing material, free entertainment of all kinds, equipment, athletics, etc., was \$500,000. The cost of operations in England and France were in the same period about \$725,000, and this has since been increased to \$100,000 a month. Prices of articles purchased in Y.M.C.A. canteens are governed by the military authorities and the Y.M.C.A. is not allowed to undersell the regular army canteens. Any profits made in these canteens are absorbed in helping to meet the heavy deficits incurred by the free services already mentioned. Letters received from all of the one-time members of Farm and Dairy staff, who are now serving in France, speak highly of the work of the Y.M.C.A. Several branches of the G.W.V.A. have gone on record as disapproving of the Hamilton resolution. The public may rest assured that no error has been made in providing the means whereby the work of the Red Triangle amongst the soldiers may be continued and extended.

Dry Pastures

OWS in Eastern Canada are now wading, lots of them, knee deep in pasture. Frequent showers are keeping the grass growing and the prospect for pastures this summer seems bright. It is not wise, however, to become too enthusiastic over the outlook as a dry spell later in the summer might upset our calculations. We can remember several seasons when spring pastures promised excellently and the latter part of the season was characterized by severe drouth. It always pays to play safe and be prepared to supplement pastures if necessary.

It is not too late yet to seed a mixture of peas and oats for supplementary feeding, especially if the soil has been well worked earlier in the season and the moisture conserved. The early varieties of corn, if planted now, will make good fall feed; and seed of these early varieties may now be freely imported from the United States, the embargo having been lifted. Greystone turnips for fall feeding may be seeded from now on. Most fortunate of all, however, are the farmers who have a few feet of ensilage in the bottom of their siles reserved for summer feeding, or the more extensive dairyman who has a full summer silo reserved for the purpose. After all, doesn't it seem foolish to bend every effort toward filling our barns and silos for winter feeding, while allowing the cews to go on short rations in midsummer and fall?

Letters to the Machinery and Depo

June 20, 1918.

DITOR Farm and Dai in your issue of Mayou ask the question our Folks think of it," to "The Machinery Age." deavor to explain what I Machinery is beneficia ish any task that can plish any task that can by human labor, or where scarcity of labor, but whe abundance of labor, to a labor and drive the labor callings that are already lowers the standard of 1 laborer in every calling, end must defeat itself, chinery reduces the cos tion it at the same time ability of the people to I cle at the reduced price: out of work has but littl anything, and the more m more idle men I know t ployed making the machi a number are so employe is the number so employ factory such as Massey-l pared to the number the the villages? In proof of the rural population in Europe and America fast country for the cities?

Of course I do not thi making of machinery estopped, but I do think to ery is the main reason for of the socialistic ideas. A to own the machinery or I would say to the if machinery makes a sn immense estate owners small holders off the la becomes a positive curse is a proof of it in Scotl time, in the loss of so places where the people driven off to make room farming on a large scale. "Ill fares that land to has

prey, Where wealth accumulate

decay."

—J. Parkin, Was

Farm Drawbac

DITOR, Farm and I makes me feel very say the least of it, such remarks from Lord S

as the following Farming should be mad able by educational and fi and the social conditions candid be so improved, tha of men with natural inclin way, will be attracted to and will succeed at it."

Who is to give us the fir Who is to give us the fir if any man more than anoth cially fleeced, it is the fa instance, if he buys a farm pay high taxes for his mone The capitalist can loan amount of money and not of taxes on it, but instead, high interest on his money are to be opened and ma comes out of the farmer. are to be built, it comes farmer, while the moneyed travel and use the railroa paying a cent, and the doesn't own a foot of land

If implements are to be are held up by high prices government-protected man Why should they be pro more than the struggling for As to educational

school equipments are only compared to the city outfl children try for the entranc tions, do the city children o country schools and pay trai

Letters to the Editor

Machinery and Depopulation

DITOR Farm and Dairy: I noticed in your issue of May 23rd that you sak the question: "What do our Folks think of it," in reference to "The Machinery Age." I will endeavor to explain what I think of it.

deavor to explain what I think of it. Machinery is beneficial to accomplish any task that cannot be done by human labor, or where there is a scarcily of labor, but where there is a studence of labor, to displace that labor and drive the labor into other callings that are already overcrowded, lowers the standard of living of the labore in every calling, and in the end must defeat thereft, for it machinery reduces the cost of production it at the same time reduces the ability of the people to buy the article at the reduced price; for the man out off own has but little to buy of the control of the cities?

Of bourse I do not think that the making of machinery can ever be stopped, but I do think that machinery is the main reason for the spread of the socialistic ideas. And the time will come when the people will have to own the machinery or get off the earth. I would say to the question, if machinery makes a small class of immense estate owners and drives small holders off the land, it then becomes a positive curse, and there time, in the loss of soldiers from places where the people have been driven off to make room for sheep farming on a large scale.

"Ill fares that land to hastening ills a prey,
Where wealth accumulates and men

decay."

—J. Parkin, Wasing, Ont.

Farm Drawbacks

DITOR, Farm and Dairy. — It makes me feel very hopeful, to say the least of it, when I read such remarks from Lord Shaughnessy as the following.

"Farming should be made so profitable by educational and financial aid, and the social conditions of rural life should be so improved, that thousands of men with natural inclinations that way, will be attracted to agriculture and will succeed at it."

Who is to give us the finr-acial aid?
If any man more hast another is finaninterest in the finr-acial aid?
If any man more hast another is finaninterace, if he buy a far man has had
pay high taxes for his money invested.
The capitalist can loan the same
amount of money and not pay a cent
of taxes on it, but instead, he receives
high interest on his money. If roads
are to be opened and maintained, it
comes out of the farmer. If bridges
are to be built, it comes out of the
farmer, while the moneyed man can
travel and use the railroad without
paying a cent, and the man who
same, our a foot of land can do the
same.

If implements are to be bought, we are held up by high prices charged by government-protected manufacturers. Why should they be protected any more than the struggling farmer?

more than the struggling farmer?
As to educational conditions, our school equipments are only an apology compared to the city outlits. When theliers try for the entrance examinations, do the city children come to the country schools and pay train fare and

high board. No, it is vice versa. When the farmer needs an outfit of clothes, etc., can he go with his load of potatees or hay to the merchant and exchange? No, he is tied up to the speculator or middleman, who takes the llon's share. Talk and write escays on how to keep the boys on the farm? You might as well try to make an impression on the moon by shooting boiled peas at it. The boy says, "No thanks—I won't rise at daylight and do necessary chores, milk cown, seed the same of the company of the control of the company of the country boy says, "Tm too tired to enjon any sport."

Although I am a farmer and a father of six sons, I don't encourage one of them to become a farmer, but to try with all their might to succeed at a more remunerative occupation. All honor to Lord Bhaughnessy for his suggestion to emanelpate the farmer's condition. When it materializes, you will not see any more essays entitled. "How to keep the boys on tile farm."—J. M. Munro, Thunder Bay Blatrick.

Mr. Archibald's Figures

DITOR Farm and Dairy,—In Bulletin 23, Mr. B. S. Archbald,
Dominion Animal Husbandman, endeavors to discuss "What Profit per Cowt" and by crediting the manure twice, once as "what Profit per Cowt" and by crediting the manure twice, once as "chemical value \$22.56," or a total for manure of \$45, and \$5 for a calf, magking \$50 in addition to product he is able to show a compared to the state of \$45, and \$5 for a calf, magking \$50 in addition to the milk product he is able to show with \$45 for her manure is rificulous. Manure has no market value; its value is problematical. I know of hundreds of farmers in the West (and some few in the East) who would not give a sou for the cow's maure. Can Mr. Archibald, or any other dairymen, sell or exchange the manure for cow feed? Many milk men near the city place no value at all on the manure. Then, again, he has no warranty in crediting the cow with \$5 for the grade calf. If the calf has to be fed on the cow's milk for three weeks, and vealed, there is little profit in the calf. If the calf is given the dam's milk and reared, the cost of the calf is about, equal to the

value of the milk, perhaps more. And \$52.11 for cost of feed for a whole year. It is such statements at these issued breadcast that keep down the price of milk and its products. Why, it's costing me 45 to 48 cents a day to feed my dairy cows these last six months, and the ration is not as costly and nourishing as it should be. I feed only nine pounds of mixed meal, but that nine pounds costs 31 cents. The balance is made up in costs of roots and hay. Like all other dairymen, I am, of course, working at a loss in labor income, interest and depreciation. How do dairymen exist in working in this way at a loss? Simply by doing the work themselves for nothing, getting no interest on investment, no depreciation allowance, and by growing most of the feed 'instead of purchasing it. In many cases our Experimental Farms are doing more harm than good, and this is a case in point.—J. A. H. Kings Co. P. E. I.

"You don't dissipate, do you?" added the physician sterniy of the little, worried-looking man who was about to take an examination for life insurance. "ou're not a fast liver or anything of that sort, are you?"

The little man hesitated a moment looked a bit frightened and then piped out: "Well, I sometimes chew a little gum."



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is greater right now than ever before

These are the days of the full milk pail.

But if you are trying to get along without any cream separator, or with an inferior or half-worn-out machine, the more milk you get the more cream you lose.

And no farmer can afford to lose even a little cream when butter-fat is selling at from 40 to 50 cents a pound.

With butter-fat at present prices, and our country begging us to stop waste, "cream slacker" methods of skimming milk must go.

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Order your De Laval now and let it begin saving cream for you right away. Remember that a De Laval may be bought for cash or on such liberal terms as to save its own cost. See the local De Laval agedt, or, if you don't know him, write to the nearest De Laval office as below.

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





TO thine own self be true, and it must follow as the night the day, thou can'st not then be false to any man .- Shakespeare.

In the Spy Net

By Emel Parker in Farm and Fireside. reneated Eugenia's instructions accu-

open fire.

(Continued from last week.)

ORTUNATELY she knew that the path which he would take was straight. She ran to it, and could see that he was not within a quarter of a mile of the beach, at least. As soon as the boat was at suf-

ficient distance she went immediately to the spot where the box was buried. Kneeling on the sand, her strong, slender fingers tore at the sand and

It was an oblong, water-proof affair of ordinary exterior, but her hands trembled as she flung up its cover. Inside was a folded piece of paper. She drew it out eagerly and her eyes grew large as she read these words.

grew large as she read these works, written legibly, in English: Carnations desire water for feed-ing sheep. Implore violets assist-ance with churning. Even cattle raming sheep. Improve ance with churning. Even cattle ram-pant. Though nasturtiums unable.

"Gibberish!" she said aloud. Then suddenly she knew.

She had not thought what she should do with the contents of the box after she had seen them, but now she saw what her course must be.

By good fortune she had in her ocket a notebook and pencil which she had taken to the cottage in order to make a meniorandum of necessary Still crouched in the sand repairs. Still crouched in the same she copied word for word the myster-ious message. She put the box back into place, covered it carefully, and concealed her own footsteps as she retraced them.

As soon as she reached her own room she rang for Liza. Having recounted the story of the old woman's granddaughter, Eugenia looked her servant squarely in the eyes. "Liza, will you do something for me—just exactly as I tell you to?"

"Deed I will, Miss Genia. Reckon I'd do most anything in all the world for you."

"This is a strange thing to ask you to do, and you are to say nothing about it to another soul. No one is to know a word about it excepting you and I, not even Sam."

"'Deed I don't tell that nigger everysaid the old woman, with a thing.

"You know that red leather book that Mr. Stackpoole always carries in his coat pocket?"

"'Deed I do. I reckon that's the book what's got his black magic in it He seems to set a powerful store by that there book."

"Yes, that's the one I mean; only of course, it hasn't black magic. Now, Liza, listen carefully. He doesn't that book in his pocket in the evening because he has no pocket in his dinner coat large enough to hold it. Therefore he probably leaves it in his day coat. Now, when we are at dinner I want you to get that book, take it into the pantry, and then call me out from the dining-room. Do you understand?"

"Yes'm, I understand 'zactly." She

now when I've finished with this, so that you can take it back again where you got it."

Liza looked as if she were reluctant to leave before the container of "black magic" had even been opened, but she obeyed at once.
Eugenia hastily turned the pages of

the book. Her face whitened as she perceived that in it she really had found the key to the mysterious mes-She withdrew from the bodice her gown the small notebook in which she had written in the after-noon and jottled down from the leath-er book the equivalent for each word of the message.

Before returning to her guest, Eugenia rubbed her cheeks vigorously with her fingers, and endeavored to assume a smile. Fortunately the room was lighted only by an open fire and shaded candles, so that she was sure he could read nothing from her face.

When they were settled in Miss Burr's room, Eugenia excused herself and went quickly into her own room, and wrote the words which were to bring her affairs to a crisis, and which were vitally to affect her life and that of Carl Stackpoole.

When at last she affixed her signa-ture she felt as if she had signed away all of her youth, her chances for happiness, and her love.

An Attractively Situated Farm Home.

On the brow of a hill commanding a good view, stands the attractive farm home of Mr. Wm. Fraser, Huron Co. Ont. As will be noted this home is constructed of cement, and is quite pleasing to the eye.

to-night. The thought of going away from here tears at my heart."

When Eugenia entered the dining-

oom a few minutes later she saw Stackpoole standing in front of the

open hre,
"It's comforting, isn't it?" he said,
nodding toward the bright blaze. "But
it is sad too. It reminds me so forc-

ibly that summer is almost over, that nothing can last. Eugenia, I am sad

"You are going away?" "I must."

"When? I thought you had promised A int Sarah to stay for a month."

"That is impossible. I do not know now just when I shall go, but I think it must be soon. I am quite well now, thanks to your wonderful hospitality; and, besides, I have matters which de-

mand my attention. When Liza came in with the soup le gave her mistress a knowing

"'Scuse me, Miss 'Genla, but someone's out there and wants to see you mighty bad. I said you was at your dinner, but it didn't seem to make no difference what I said."

"That's all right. I'll go and see who it is. You'll excuse me?"
Stackpoole rose as she rose, and she hoped that he could not see the trembling of her knees beneath the soft folds of her amber-colored gown.

When they were safe in the remote pantry, Liza whispered in great ex-

"I'se got it, Miss 'Genia. Here it

With a proud flourish the old wo-man took from the ample pocket of her black skirt the red leather book. Eugenia's hand shook as she reached for it.

"Now you must serve the rest of the dinner," she said. "I'll let you

Suddenly it seemed to her that she could not send this letter. Then to fortify herself she drew out the tiny notebook and read again the deciphered message. A chill came over her. Not again could she waver from the path of duty, no matter how agoniz-The message, now that she had learned the key, said: Last safe boat leaves twenty-third.

Your departure from country before enemy learns of our work on Stepham imperative for future success. The One in Authority.

A messenger in a gray uniform dashed up the marble steps of one of the government buildings in Washington, ran down the corridor, and knocked loudly on one of the doors. It

knocked loudly on one of the doors. It was opened by a keen-eyed man.
"Sign, mister?" asked the boy.
Slater took the square white envelope, affixed his signature to the book, and closed the door.
"Who was it?" asked Demling, who was short and fat, with a round pink face. The two men were the place of the state of th

his desk.

"These women make me sick," he said. "I suppose they get their ideas from the movies."
"What ideas?"

"Another woman thinks she's caught a spy. I'll bet if we've got "Another

one letter like this in the last six months we've got five hundred. Gets on my nerves. Now that the chief's gone I have to open all his mail."

"Let's see the letter."
"Help yourself."

"Help yoursell."
After a moment Demling spoke.
"Well, you know I think there's something in this letter," he said. Slater groaned.
"My son, my son!" he said.

"Well, I do," Demling reasserted 7

think this woman has got hold of something. She doesn't sound like one of those hysterical women-she one of those hysterical women—ass sounds pretty sensible. Secondly, Slater, that secluded part of the Geo-gia coast where she lives would be a pretty likely hiding place for anyose interested in our naval secrets." "You cer-tainly are a bright boy."

"It's all right for you to laugh, but we know that there's something do-ing down there. Take the case of this destroyer, the Stepham. I notice the Navy Department lost no time in punishing that boy who wrote that fool letter about the mysterious way she has been wrecked—that letter that some of the Southern papers got hold of and published."

He looked down again at the letter which he held in his hands. "Great Scott, her name is Stepham!" "Sure it is. That's where you get the idea."

the idea."
"No, it's not. I think she's got hold
of something real."
"Well, what are you going to dosend her a policeman's hadge and tell
her to arrest the man?"

Demling's round cheeks grew pink-

"I'd like to give it the once-over,

anyway," he said.
"What! Go way down there on
this wild-goose chase? I don't see
how you could do that even if you
wanted to. We don't even know where

the chief is-you couldn't very well ask him. No, but I can take my vacation

and go down on my own hook; and that's what I'm going to do." He that's what I'm going to do." He looked auxiously at the telephone instrument on the desk. "I had planted to the Mrs. D. to Atlantic Liquad I'm afraid she won't like it. Suppose you just call her up, Slater, at tell her I was suddenly called out of town on the local state of the suddenly called out of town on the local state of the suddenly called out of town on the suddenly called out of the sudden town on important business.

"Well, personally I think you're crazy," Slater commented cheerfully. Then he added, with the arrogance of of an inferior temporarily in a posi-tion of authority: "But don't forget that you said that you were going to do this on your own hook. Under-stand, the Department takes no re-sponsibility."

"I understand," replied Demling
"Just don't forget to telephone Mrs.

On the evening after Eugenia had persuaded Sam to row across to the village to mail her letter, she remained so long in her own room that her aunt finally sent Liza in to ask if she

This brought Eugenia back to the present with a painful jerk. She had determined upon her course of action in the future, but the present, with its undramatic round of meals and conversation, seemed even harder to bear than the definite crisis she knew was imminent.

She went into her aunt's room with an apology upon her lips, and with leaden sorrow in her heart. It was agony for her to look at Carl Stackpoole, for as their moments together grew fewer and fewer he grew more and more dear to her. She bent her bead over her knitting, pretending to be absorbed in it.

Aunt Sarah went on and on with her reminiscences, apparently interpret-ing her auditor's silence as interest

At last the man rose to say good night, and Eugenia, waiting only until he had gone down-stairs, prepared to

(Continued next week.)

CREAN WANTE

coming season.
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traction of

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Book Department Farm and Dairy, Peterboro, Ont.

The Upward Look

That You May Bear Much Fruit E that abideth in me, and I in him, the same bringeth forth much fruit. Herein is my Father glorified, that ye bear much -John xv., 5, 8.

We all know what fruit is. The produce of the branch, by which men are refreshed and nourished. The fruit is not for the I vanch, but for those who come to car 't away. As soon as the fruit is ripe, the branch gives it off, to commence afresh its work of beneficence, and anew prepare its fruit for another season. A but wholly for those to whom its fruit brings refreshment and life. And so the branch exists only and entirely for the sake of the fruit. To make glad the heart of the husbandman is its object, its safety, and its glory Learn thus, if thou wouldest bless others, to abide in Christ, and that if thou dost abide, thou shalt surely bless. surely as the branch abiding in a fruitful vine bears fruit, so surely, yea, much more surely, will a soul abiding in Christ with His fulness of bless ing he made a blesming.

The reason of this is easily under-stood. If Christ, the heavenly Vine, has taken the believer as a branch, has taken the believer as a branch, then He has pledged Himself, in the very nature of things, to supply the sap and spirit and neurishment to make it bring forth fruit. "From Me is thy fruit found;" these words derive new meaning from our parable. The soul need but have one care,—to abide closely, fully, wholly. He will give the fruit. He works all that is needed to make the believer a blessing

Abiding in Him, you receive of Him His Spirit of love and compassion towards sinners, making you desirous to seek their good. By nature the heart is full of selfishness. Even in the believer, his own salvation and happiness are often too much his nappiness are often too much his only object. But abiding in Jesus, you come into contact with His in-finite love; its fire begins to burn within your heart; you see the beauty of love; you learn to look upon loving and serving and saving your fellow-men as the highest privilege a disciple

of Jesus can have. The desire to be a blessing is but the beginning. As you undertake to work, you speedily become conscious of your own weakness and the difficulties in your way. Souls are not saved at your bidding. You are ready to be discouraged, and to relax your But abiding in Christ, you ceive new courage and strength for the work. Believing what Christ teaches, that it is He who through you will give His blessing to the you will give His blessing to the world, you understand that you are but the feeble instrument through which the hidden power of Christ does its work, that His strength may be perfected and made glorious in your weakness. It is a great step when the believer fully consents to his own weakness, and the abiding consciousweakness, and the abiding conscious-ness of it, and so works faithfully on, fully ascured that his Lord is working through Him. He rejoices that the excellence of the power is of God, and not of us. Realising his oneness with his Lord, he considers no longer own weakness, but counts on the power of Him of whose hidden working within he is assured. It is this secret assurance that gives a brightness to his look, and a gentle firmness to his one, and a perseverance to all his efforts, which of themselves are

The great secret of abiding in Christ is the deep conviction that we are no-thing, and He is everything. As this taing, and he is everything. As this is learnt, it no longer seems strange to believe that our weakness need be no hindrance to His saving power. The believer who yields himself wholly up Christ for service in the spirit of a

great means of influencing those he

is seeking to win.

simple, childlike trust, will assuredly bring forth much fruit. fear even to claim his share in the wonderful promise: "He that bewonderful promise: "He that be-lieveth on me, the works that I do shall he do also; and greater works than these shall he do, because I go to the Father." He no longer thinks that He cannot have a blessing, and must be kept unfruitful, that he may be kept humble. He sees that the most heavily laden pranches bow the owest down. Abiding in Christ, he lowest down. Abiding in Christ, he has yielded assent to the blessed agreement between the Vine and the branches, that of the fruit all the glory shall be to the Husbandman, the blessed Father.

Let us learn two tessons. If we are abiding in Jesus, let us begin to work. Let us first seek to influence those around us in daily life. Let us accept distinctly and joyfully our holy calling, that we are even now to live as the servants of the love of Jesus to our fellow-men. Our daily life must have for its object the making of an impression favorable to Jesus. When you look at the branch, you see at once the likeness to the Vine. We must live so that somewhat of the holiness and the gentleness of Jesus may shine out in us. We must live to represent Him. As was the case with Him when on earth, the life must prepare the way for the teaching. what the Church and the world both need is this: men and women full of the Holy Ghost and of love, who, as the living embediments of the grace and power of Christ, witness for Him, and for His power on behalf of those who believe in Him.

In Christ, let us work. Let us work, not like those who are content if they now follow the fashion, and take some share in religious work. No; let us work as those who are growing liker to Christ, because they are abiding in Him, and who, like Him, count work of winning souls to the Father the very joy and glory of heaven begun on earth.

And the second lesson is: If you work, abide in Christ. This is one of the blessings of work if done in the right spritt,—it will deepen your union with your blessed Lord. It will discover your weakness, and throw you back on His strength. It will stir you to much prayer; and in prayer for others is the time when the soul, forgetful of itself, unconsciously grows deeper into Christ. It will make clearer to you the true nature of brancher to you the true nature of branchlife; its absolute dependence, and at
the same time its glorious sufficiency,
—independent of all else, because dependent on Jesus. Let a living faith
in Christ working in you be the secret
spring of all your work; this will the
spire at once humility and course. spire at once humility and courage.
If Jesus Christ is really to work through us, it needs an entire cration of ourselves to Him. daily re-But we understand now, this is ablding in Him; just this it is that constitutes our highest privilege and happiness. To be a branch bear-ing much fruit,—nothing less, nothing more,-be this our only joy.

Note.-A selection from Rev. Ana copy of which may be secured through Farm and Dairy by any of our readers for 60 cents.

Pleasure in Work

I is not the opportunity to do just what we like that makes life successful, but the resolute will to like what we have to do and get out of it the best that is possible. There have been wondrously beautiful lives made out of seemingly poor material; they are being made all the time and all around us. The good fortune of being able to do as we please is as nothing compared to being able to find pleasure in what we have to do.

One of the most important things in the lives of boys and girls is the re-gular church services,—providing the minister remembers they are there.



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Circulation Department FARM and DAIRY Peterboro, Ont.

HOME CLUB

One of the Girls Replies EVERAL weeks have passed since

Sure Ray voiced his complaint in the Home Club about the girls leaving the farms. So far the only response has been from one who signed himself "A Bachelor." Of

signed himself "A Bachelor." Of course he sides with Sam Ray.

To be brief, the reason I went to the city was this: I had to earn my own living and the best I could do in the country was as a hired girl at 310 per month. I decided to try the nursing profession and entered a hospitation on of the large cities in the United in one of the large cities in the United in one of the large cities in the United States Maria States. in one of the large cities in the United States, living there four years, doing private nursing after I graduated. "A Bachelor" states that the girl he

called on in Toronto was embarrassed because he was a farmer. I often wished that some of the farmers from home, even to Alphonse the hired man. would call. I am sure that there would not have been any embarrassment on my part. Personally I prefer a farmmy part. Personally I prefer a farmer to a city man any day; the majority of the latter possesses too much self-confidence to suit me. I have never ben ashumed that I was a farmer's daughter and I hope when "Mr. Right" appears he will be a farmer.

In conclusion I wish to thank the city for the opportunities it has given me. I think I am better fitted to be a farmer's wife and mother of his children because of my city experi-

I would like to see letters from I would like to see letters from some of the other girls on this sub-ject and trust that "Sam Ray" and "A Bachelor," will soon be caught in Cupid's chains.—"Pat.",

Give Boys and Girls a Chance

T is now the time when we have our house-cleaning nearly done and we begin to "let the sun in." And we begin to "let the sun in." But, oh my, I am afraid we are chasing Sam Ray around considerably. To begin with, he has acknowledged that he is a bachelor. What a pity! It must be that the "one" he did fancy went off to the city. Did you read "The Heart of the Desert." Sam Ray? If so, to be honest, aren't you giad you were' not in John De Witz's giad you were' not in John De Witz's Charles you the large wife. farmer's wife.

Why the girls leave the farm is a question which may be answered in many ways. For example, why don't all our ministers' sons be clergymen, our doctors' sons physicians, etc.? Oh, it wouldn't do at all. The farmers and their sons would be in a class by themselves, and there would be plenty of farmers, which would cer-tainly be a delight when help is But in every case we find

rmers' sons who are smart and over, going through college, and taking degrees, and filling positions where doctors' or clergymens' sons have failed. Why? That will always be the question. In one of our col-leges, in a class of 500, only 40 boys had money to back them. The remainder were farmers' sons and boys who were working their way through When you read some eloquent speech made by "Sir" somebody, you may re call the time you went to school with both of you being barefooted. Great oaks from tiny acorns grow "Every dog has its day." Let the Let the boys and girls on the farms have a chance to try something else if they want to do so. If it does not appeal

to them they will be back on the farm I suppose I must not be too hard on Sam Ray, or readers will think the Home Club is not a very quiet cir-cle. Cheer up, Sam Ray, you have a friend in "A Bachelor" to take your part. Over 120 girls are being sent part. Over 120 girls are being to the farms this summer, so you may have an opportunity yet to make a

I would like to hear from Sam Ray or other Home Club mem-bers regarding their opinion on girls helping with the outside work on

Remuneration a Big Factor

HAVE been watching for word from the girls concerned in Sam Ray's recent contribution to the Home Club, entitled "Whither Away?"
I expected Sam Ray would have a deluge to answer his query as to why girls leave the farm. Surely the girls ought to be able to give us the desired information first-hand without any "I thinks" from us, who have not had experience for ourselves.

from observation, and putting my-self in the average girl's place, I think that the prime reason for the first stage of discontent is insuffiaret stage of discontent is insuffi-cient remuneration. Speaking of the "middle" class, not the wealthy, you know, I do not believe there is one girl in a dozen who has a regular allowance handed her. And what girl with any spunk wants to go and ask dad or mother for every nickel she wants to spend? I often think that this money question is also the cause of a great deal of discontent among of a great deal of discontent among farmers' wives, as well as their daughters. Of course fais is only a "think" of mine, and if I am alto-gether wrong I do not want to misjudged, because I have not my information first hand,

For myself, since I was 15 years of age I have earned my own spending money—and don't you think it would ever be an easy task for me to ask for a single dime after once tasting the joy of having my own spending money. I've seen farmers and that wives on their "day to town," and in about nine cases out of every ten or n, hubby carries the money and wife has to ask him for money, even if it's only a hair net she wants Well, I'd want a hair net "awfu!" bad before it would come to me to ask for a nickel to get it.

The women and girls on farms surely work hard enough to have a little money all their own that they can spend without questioning. Good ness me! if it was only two dollars a month, it would be a boon to some of them. And that's what I believe to of them. And that's what I believe to be the prime cause of the girls' de-parture from our farms. Times have changed. This is an independent age to a great extent, and one can't blame the girls when they look around and other girls who are holding down jobs and having their own money to spend. Sam Ray says: "If a calf will keep her, for the love of Mike, let's give her one." Yes, let's. That would be a little extra surprise occasionally. But first let's give her a little wage regularly, not haphazard just when we happen to think of it, but regularly. Then she can be blanning the dainty clothes she wants and realizing them. In the old way it's mostly planning and anticiration with the realization a very un

certain thing.
There! I don't know if that will touch the spot or not, but I do know that for myself I just could not bring myself to asking for every copper. It's humiliating, especially if you've ever earned money for yourself, and it does make me weary to see the farmer fish the money out of his pocket to pay for his wffe's purchases. I always feel "blazing mad" when I see it for it looks like he just can't trust her with his precious money, or is so stingy it just naturally sticks to him. If I were a farmer's wife who had to say right in front of a clerk, "John I got a pair of stockings for baby—they cost 25 cents," well, I'd just wilt on the job, that's all—and I'd look as cheap as I felt, too. If the farmer could see himself as others see him, he would give his wife a little money before leaving home. Now, I'm gotting warmed up on the subject, so I'd better call a halt.—"Just Me." Young People's Fo Conducted by Marion Dal

A Rose Shower HAT so rare as a day Then if ever come perf

We instinctively thin we instructively thir above lines during this mon wonder girls choose June i wedding month. Nature is s ful with the bright greens and colorings one involuntarily t colorings one involuntarily to reses and happiness. Surely would object to a "Rose they may be given for the for some invalid or "shut-in" celebrate an anniversary. have to do is to set the our, invite your friends to " for a simple cup of tea but or a simple cup of tea, but with them roses, few or ma us all try to forget our glander some sort of a "rose sho fore the end of the month

To Literally Shower the B Have a large ball made petals, suspended in a doorw hall is made in halves. Wh wells are being said, the host a ribbon which separates the which fall upon the young work leaving the realm of single ness for the new and unkno path of the bride is a very

Rose Luncheon Contes A hostess who wished to centreplece was of bride's r each guest had a rose at her girls sometimes talk personal tell things best untold, a h was suspended over the dini Of course every one asked and the hostess explained and in olden days it was pla the table when guests were e ed, in token that what was around the table was not t peated. That is where we ge pression "Sub rosa." After the hostess gave out cards a were written the following of the answers being the nam

Rose Contest. 1. What rose is never seen ing stone? Moss rose. What rose blooms in cheek? Maiden's blush. What rose can you dris

4 What is the aspirin Climbar

5. What is the wanderin 6. What rose is like a popul

Rad

7. What rose would you abould you burn your finger 8. Which rose is the prin-ture of weddings? Bride ro 9. Which rose is the v

Cabbage. 10. Which two roses were 10. Which two roses were history? Red rose and whit 11. Which rose should A honor? American beauty. 12. Which rose bears the r

Cinnamon. 13. Which rose is a perfum

14. Which rose is a beauti

Damask rose.

15. Which rose bears the recountry? La France rose.

A Miscellaneous Show

The hostess in this case he ed several yards of cheese tea towelling, bits of lace a tions, material for bags, s holders, etc. She asked the be and about two dozen gi to come for a "Sewing conte all had arrived they were gi choice of material and told as article to be given to the

Young People's Forum Conducted by Marion Dallas.

A Rose Shower

HAT so rare as a day in June? Then if ever come perfect days.

We instinctively think of the we instinctively think of the above lines during this month. No wonder girls choose June for their wedding month. Nature is so beautiful with the bright greens and delicate colorings one involuntarily thinks of nees and happiness. Surely no one would object to a "Rose Shower." They may be given for the bride, or to result of the bride, or to celebrate an anniversary. All you colorings one involuntarily thinks of celebrate an anniversary. All you have to do is to set the date and hour, invite your friends to "drop in" or a simple cup of tea, but to bring with them roses, few or many. Let us all try to forget our gloom and have some sort of a "rose shower" before the end of the month

To Literally Shower the Bride. Have a large ball made of wire, etals, suspended in a doorway. The hall is made in halves. wells are being said, the hostess pulls a ribbon which separates the This releases the petals which fall upon the young woman who is leaving the realm of single blessed ness for the new and unknown path. path of the bride is a very old cus-

Rose Luncheon Contest.

A hostess who wished to honor a centreplece was of bride's roses and each guest had a rose at her place. As girls sometimes talk personalities and tell things best untold, a huge was suspended over the dining table.

Of course every one asked "Why?" and the hostess explained that the and in olden days it was placed over the table when guests were entertain ed in token that what was around the table was not to be re-peated. That is where we get the ex-pression "Sub rosa." After luncheon the hostess gave out cards on which were written the following questions, the answers being the name of a

Rose Contest. 1. What rose is never seen on a roll-

Moss rose. the stone? What rose blooms in a girl's Maiden's blush

What rose can you drink? Tea

4 What is the aspiring rose? 5. What is the wandering rose?

6. What rose is like a popular book?

7. What rose would you mention should you burn your finger? Yellow.
8. Which rose is the principal feature of weddings? Bride rose.
9. Which rose is the vegetable?

10. Which two roses were famed in

history? Red rose and white rose.

11. Which rose should Americans benor? American beauty.

12. Which rose bears the name of a

13. Which rose is a perfume? Musk

14. Which rose is a beautiful linen?

Damask rose.
15. Which rose bears the name of a country? La France rose.

A Miscellaneous Shower.

The hostess in this case had provided several yards of cheesecloth and tea towelling, bits of lace and insertions, material for bags, scraps holders, etc. She asked the bride-to-be and about two dozen girl friends come for a "Sewing contest." When all had arrived they were given their choice of material and told to make an article to be given to the guest of

The invitations said "Bring your thimbles." (but what girl your thimbles," (but what girl goes anywhere nowadays without either thimble or k, itting needles). A most oither happy afternoon was spent and bride carried home many pretty little souvenirs of the good will and wishes of her girl friends.

Wedding Anniversaries.

Some of our readers have asked the question, "What are the wedding anniversaries." I recall this old rhyme which is capable of attaching itself to days hath September," etc., of our echool dave

Gifts of paper, choice, not dear, Mark the bride's and groom's first

Five years brings substantial wood— Type of wedlock strong and good. Ten years homely gifts bring in Wares of shining useful tin When the years have reached a score, China will be prized the more. Silver if the couple thrive, Tells the years are twenty-five. Half a hundred, slowly told Brings the wedding day of gold. So few live to see arrive That diamond date at seventy-five. Post quetom save threescore may be The diamond anniversary.

School Closing.

There is another class of you people very happy in June, especially in the latter part of the month. Need

Home Wanted

In recent issues of Farm and Dairy have appeared announce-ments in connection with children for whom homes were desired. This week we have been advised of another child looking for a good home. This time it is a little baby boy one month old. This baby is of good par-entage and healthy parents, and a Protestant home is desired for him. Anyone who wishes to secure further information con cerning this baby boy may do so by writing Dr. D. C. King. 290 Charlotte St., Peterboro, Ont.

less to say it is the school children. Previous to the closing, however, there is always a good deal of anxiety regarding the form the closing will take. Recently I came across a list of patriotic plays and drill which require very little preparation. These might be of some assistance to the

teacher who is perplexed. 1. Miss Canada's Reception. 15

take part.
2. The Wooing of Miss Canada. 25

or 30 take part.

3. Britannia. For 19 players.

4. Camada Our Homeland. For 12

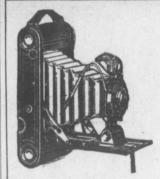
boys and girls. 5. We'll fight for the Grand Old lag. Arranged for 16 or 24 girls. 6. Saluting the Canadian Flag. Arranged for about 25 or more.

Rule Britannia. A drill calling for 8 little girla

A Canada Party. This is a very simple little affair which the teacher in a small school might use. Decorate the room as far as possible with Union Jacks and red, white and blue bunting or cheese cloth. The decorations are worth while for the pupils. The idea of the party is to see how many of the pupils will be able to recognize the provinces of the Dominion by their shape. To prepare the nameless maps, put sce of carbon over the large school map and take off the impression. Paste this on light weight card board and cut out. Give each pupil ten min utes trial, then see who has correctly

named the most.

Note.—If any of Our Folks wish to secure some of the drills mentioned above, we can supply them with the information necessary to secure same.



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Book Department Farm and Dairy, Peterbore, Ont.

A Women's Section of the U.F.O. Proposed Farm Women Meet in Toronto-Keen for Organization on U.F.O. Lines

T the recent farmers' convention held in Toronto, severat delegates urged that something should be done to lead the women to take a greater interest in the work of the U.F.O. As a result, it was arranged that a meeting of farm women should be held in Toronto on Monday of this week, at which Mrs. Mc-Naughton, secretary of the Women's Section of the Saskatchewan Grain Growers' Association, should be present to impart information concerning organization work. Although the gathering at this meeting was not large, there being between 15 and 20 present, what was lacking in numbers was more than made up by enthusiasm and the practical way in which the big problems of the farm were discussed

Mrs. McNaughton explained the methods which the Women's Section of the S.G.G.A. followed in carrying out their organization work, the op-position which they had to overcome and the power which the organized women of their province are having in dealing with the tremendous prob-lems of the farm to-day. She also joined in the discussion afterwards and threw out a great many practical suggestions for the organizing of a women's section of the United Farmers of Ontario.

Before the meeting was thrown open for discussion, Mr. W. L. Smith, of Orono, also spoke very earnestly and in a broadminded way of the need of organization from a national stand-

The Need for Organization.
In opening the discussion Miss
Griesbach, of Collingwood said: "We must have unity, and the only way to get this is to get into touch with the organization which now exists. Every lady present is an authusiastic believer of the U.F.O., and if we can work up to the women of the province to take that attitude and to follow along. there is hope for making the rural population a great big force. And if isn't going to be a great big force, don't want to have anything to do with it. I value my time and energy too much. I want to make everything The rural movement is the biggest point in our country at the present time, and we have to make it a force with the Government. That force has to be exerted for our own uplift and for the uplift of every man woman and child of the country. Our platform is big enough for anybody as long as they work along those lines." Women Can Help the U.F.O. Mrs. Brodie, of Newmarket, who was

one of the women present at the con-ference of farm women held in Ot-tawa some time ago, said that the people of Ontario had had an idea that the East and the West were differ-"We had a Western woman and ent. "We had a western woman an an Eastern woman on our Board of Agriculture at that conference," she said, "and when we had a committee said, "and when we had a committee meeting we were unanimous in every-thing. The only person who took exthing. ception to our report was a town woman. I told the delegates at that conference that I thought farm wo-men had a periect right to have their own opinions. Our only trouble as farm women has been that we have allowed the town and city women to for us too long. am out to uphold the principles of the farm in every particular. We have to get up an dthink for ourselves. What is good every particular.

for the West is good for the East.

"We have women in our U.F.O.
branch at Newmarket," continued Mrs.
Brodle, "and when they started to come to the meetings our attendance was doubled. The men in the country are different to the men in town. Farmers do like to have their wives go with them to a meeting." In speaking of organizing a women's section of the U.F.O. Mrs. Brodie said that she did not approve of a separate organization to start with. In her opinion it would be better to work

the women into the U.F.O. local in a social way at first. "In our club the women look after the social part, such as preparing programmes. young people give the programmes. We will not have town talent come simply will not have town talent come out and give selections, for we want to develop the farm boys and girls. I am very anxious to see this movement go forward."

Mr. Morrison, secretary of the

United Farmers of Ontario, who was chairman of the meeting, pointed out the necess'ty of organization of our rural communities to the fullest extent, when he stated that the farm population of Canada has fallen off 18 proputation of canada has raise out is population in the same length urban population in the same length of time has increased 125 per cent. "It is impossible for any country to stand under that condition," said Mr. Morrison. "These conditions must be changed and you are the ladies who can change them." We could not have had these conventions in Ottawa and Toronto if we had not had tawa and Toronto II we had not had the U.F.O., because we would not have had any central. The U.F.O. was thrown open for the expression of opinion of our rural people." Mrs. Meade, of Blenheim, in Kent

County, expressed the opinion that there were a number of men who attended the conventions in Ottawa and Toronto from selfish mo-tives, and that the women of Ontario did not want to enter into anything of that sort. "I want to go back to my county," she said, "and tell the people that we are going to fight this thing squarely, and even supply the men if necessary. But when food is so badly needed we want to feel that we are having a square deal. I believe that the Government started in the wrong way,-that we should have had conscription from the start. Instead of that a great many of our boys listed from the farms and now the draft is taking the only one that is left." Mrs. Meade was very anxious to see something done which would put more power into the hands of the rural communities.

Mrs. Brodie pointed out at this time that the fact that our country dis-tricts have been so hard hit, is because they were not organized as a whole and that manufacturers have been drawing from the rural sections ever since the war began.
Women Must Organize.

Women wust Organize,
Mrs. Frank Webster, of Oakwood, in
Victoria County, spoke at some length
of the "wall of indifference" as she
termed it, between the town and country people. Town and city people are of the opinion that farmers are getting rich at the expense of the consumer. As an example of this confirmed belief of the majority of townspeople, Mrs. Webster related some of her experiences at the recent annual meeting of the Women's Inst'tutes and of Agriculture of East and West Victoria County. During the meeting the Mayor of Lindsay and Mrs. Webster had quite a lively argument regarding the prices being re-ceived by farmers, Mrs Webster point-ing out especially that while it is the neral impression among consumers that farmers are getting rich out of pork, in reality it costs 12 cents a lb. for grain feed for a hog until it is of marketable age, to saying nothing of skim-milk, feeding the mother pig, labor, etc. Mrs. Webster is of the opinion that this misunderstanding b tween consumers and producers can-not be overcome until rural communi-ties are thoroughly organized.

"In thinking over the subject of organizing with the U.F.O.," said Mrs. Webster, "I cannot help but feel that Webster, "I cannot help but feel that we must prganize if we are going to do our part. The men are more in-terested when the women are work-ing. Our women have made great progress through the Women's Insti-tute. While the Institute has done us a world of good, it is governed by the Department of Agriculture. When

it comes to organizing with some thing that is outside of the Women's Institute, let us organize for the betterment of farmers and the uplift of the rural community."

Miss Currie, of Ospringe, in Welling. ton County, joined in the discussion most enthusiastically by saying that she could not remain silent as she appreciated what had been said very greatly. "Mrs. Brodie has expressed what thousands of us feel throughout Ontario," said Miss Currie, "I have been in the Women's Institute for a number of years, and I feel that it has brought the women together to study home problems in a splendid manner. We could not have done all the patriotic work which we have, had it been for our Institutes. I had not at-tended a Women's Institute convention for four years until last fall. sire for expression along certain lines which was not allowed. I would which was not allowed. I would not want to have anything to do with this new organization if partisanship had a tendency to creep in. Now that we women have been given the vote we must study the problems of the day and not be carried away by party, graft, etc. We cannot do enough for the boys overseas, and I believe that the boys overseas, and a believe that farmers are willing to sacrifice to the last man if need be, but is it neces-sary? I have been told that about 90 per cent. of the farmers represented Ottawa have sons at the front, so they cannot be called unpatriotic the greatest good to the greatest nu ber that we are after.

'In regard to the viewpoint of the city people regarding the farmer, I have a great many friends in the city and I never miss an opportunity to stick up for the farmer. Some city people think if a farmer has an automobile, he is making too much money. The men think the U.F.O. is a good thing, and when they feel that way, the organization is going to go for ward."

A representative from Halton County, remarked that she did not believe it was necessary for her to pass an opinion on the question of organizing women's section of the U.F.O. need only refer you to Mr. Morrison, and he can tell you that I have been running after him for a long time try-ing to be a U.F.O. woman."

Considerable discussion took place concerning the difficulty of reaching women, and setting them interested who lived in some of the outlying districts of the various counties. Several of the women expressed the opinion that the only way in which these people could be reached was by get-ting a farm paper into their hands dealing with U.F.O. work.

One of the women who showed a great deal of interest in organization work, was Mrs. Sheehan, of Simcos County. She had come to the meet County. She had come to the meet-ing on her own responsibility, as she could not get any of the other women interested, and assured any of those present who would undertake to go to her community and address a meeting, she would entertain them to the best of her ability. Arrange-ments were made for two of the ladies present to visit Mrs. Sheehan's district in the near future.

Mrs. McNaughton pointed out that in onnection with their women's section of the S.G.G.A., the thing that they were most proud of was that they started their organization with but one object in mind, to build it up in the best possible way. "We started with great distances and low finances," she "and we sometimes had to do drastic things. Where finances are limited and distances are great, you must have the utmost faith, because your executive may have to do things about which they will not have an opportunity to consult you. I believe this spirit is the reason of our success to-day.

No Interference With Women's

All who took part in the discuss were very anxious that if a women's section of the U.F.O. were organized (Continued on page 23.)

Rail Fences for Wire EVER before in the mem living men has fuel b prices everywhere

ager buyers give many farm chance to cut in on the pro-cal men are making. In fact, with enough enterprise could brough Canada and clean up fertune by offering to trade a vire fences for hundreds of m mil and wood fences that di he landscape on every hand. over, he could afford to pay labor to haul the rails, log boards to the freight stations

erect the wire fencing.
Here is presented to the f of many sections a splendid unity to get rid of unsightly, cient and uneconomical wood at a profit far in excess of



A Rail Fence Nowadays is Wort

tire cost of the best kind of fer The wise landown not wait until the prices for fu dropped to the old figures, b seize the chance to increa value of his farm, to extend hi me and planting over everyhis fields and to protect his pr not be protected by clumsy

I am not going to explain to or even to point out the supe of modern wire fence, but I many haps, remark that a great many need more fencing than has placed upon them.

A farm inadequately equippe fencing is much like a drug s grocery store with only half shelving upon which to arran The operation of such



A Cup Winning Cheese Ma

Rail Fences for Wire

VEVER before in the memory of living men has fuel been so scarce as in recent months, and prices everywhere offered by agre buyers give many farm owners a chance to cut in on the profits the eal men are making. In fact, a man rib enough enterprise could travel should canada and clean up a quick fortune by offering to trade modern vire fences for hundreds of miles of mil and wood fences that disfigure he landscape on every hand. Morewer, he could afford to pay for all labor to haul the rails, logs and leards to the freight stations and to

erect the wire fencing.

Here is presented to the farmers any sections a spiendid oppor-unity to get rid of unsightly, ineffi-dent and uneconomical wood fences at a profit far in excess of the en-



A Rail Fence Nowadays is Worth More in Dollars and Cents than Wire.

tire cost of the best kind of fence yet The wise landowner will not wait until the prices for fuel have dropped to the old figures, but will seize the chance to increase the value of his farm, to extend his plowing and planting over every foot of his fields and to protect his property, his crops and his stock as they can not be protected by clumsy wood

I am not going to, explain the im portance or value of good fencing, or even to point out the superiority of modern wire fence, but I may, perneed more fencing than has been placed upon them.

A farm inadequately equipped with fencing is much like a drug store or grocery store with only half enough The operation of such a farm



A Cup Winning Cheese Maker.

the running of such a store. Not to safeguard the poultry yard against prowling dogs and marauders, the cornfield against straying cattle and hogs, or the gar-den sgainst invaders, is to invite losses several times greater than the cost of good fencing.

Offer your old wooden fences for sale and ask for bids. Get prices on wire fencing to take their place. choosing for each purpose the style especially designed for it. Then figure how much profit you can make by an exchange that will modernize your farm and relieve you of all worry over the safety of your herds and crops.-C. H. F.



Yould you accept this fence and \$300.00 to boot in exchange for the wire one?

The Optimism of France LESSON in the height of optimism is handed to us, un-consciously perhaps, by the French peasant," writes M. G. Hardill. a former member of Farm and Dairy staff, but now in France for going on three years. "I have actually seen them tilling their soil within easy range of and sometimes subject to bostile shell fire, realizing at the same time the possibility of perhaps before another 25 hours, their all being in the hands of the Boche. Would our people at home act the same way under circumstances? When we read the facts of their petty grievances about which such a holler and noise is made, it makes me wonder. And who wouldn't?"

Millet, Hungarian grass and buck-wheat may still be sown if desired.

Maud Muller-Past and Present



"Maud Muller, on a Summer's Day, Raked the Meadow, sweet with Hay."

> WHEN Whittier wrote these familiar words, the picture called to mind was that of the girl in the upper picture, with rake in hand, busily engaged in raking the hay.

> At that time Horse Hay Rakes were hardly known, and the few in use were clumsy affairs and the handling of one was a job for a big husky man.

Time has made great changes, however, and a modern Maud Muller is very much at home on a

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accomplishing infinitely more with much less exertion than the original Maud.

Raking is a pleasure with one of these Rakes, as a slight pressure of the foot dumps the hav in a neat, easily-handled windrow, and is noted for its clean raking. Your girl or boy can do the raking just as well as you could do it, thus giving you time for other work.

And not only the raking, but all the operations from cutting to loading can be most satisfactorily carried on by means of Massey-Harris Hay-Making Machinery - Mowers, Tedders, Rakes, Combined Side Rake and Tedders, Loaders, etc.

They are all described in a folder "Modern Helps for Hay-Making," which is free for the asking from any Massey-Harris, Agent or by writing nearest Branch.

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Everywhere

In Union There is Strength

Many Farmers Obtain Leave

THAT the stand taken by farmers That the stand taken by farmers against the conscription of essential farm labor between 19 and 22, and the recent mass meeting of protest in Toronto have not been without their effect on the minds of the powers that be is seen in the change that has taken place in the situation since the meeting on June 7 and 8. Since then men whose cases had not meetings who had not meetings how men and the situation since the meeting on June 7 and 8. Since then men whose cases had not previously been considered on the hardship list have since been at-lowed to return to their homes for 30 lowed to return to their homes for 30 days with the prospect of having their leave extended if they are really needed to help with the harvest. Commenting on the changed situation one of the big Toronto dailies save

"The position of young farmers un-der the Military Service Act appears to be rapidly improving, as there is a marked disposition on the part of the marked disposition on the part of the authorities to allow them leave of ab-sence from the ranks much more easily than they were obtained some weeks ago, and the indications are weeks ago, and the indications are that a large percentage of them will not be asked to go overseas until the harvest season is over. At the same time, the farmers are appreciating that it is only in the cases of hard-ship that leave of absence can be obtained, and as a result there are few-er applications being received from those who have no chance of getting freedom from service. For the meantime, the big call for men for overseas appears to be over, and it is evident from the attitude of the authorities that all men who can be spared from the ranks are to be allowed to go back to help out on the farms until the next big call comes. This is doubt-less partly due to the transportation situation, and it is felt that men who need not be sent overseas may in many instances be more useful to the country while working on the farms

Many Claims Received.

"Applications for this leave of ab sence are still piling into the office of Mr. E. H. Stonehouse, the Dominof Mr. E. H. Stonehouse, the Domin-ion agricultural representative for this district, and yesterday he had at least fifty personal applications in addition to those who sent in their claims by mail, Mr. Stonehouse re-ports that a much larger percentage of the claims are genuine cases of

hardship than were received at first, and for that reason he is able to give and for that reason he is able to give his approval to a higher proportion. One matter which still has to be cleared up is the disposition of the 'extraordinary cases of extreme hard-ship,' and Mr. Stonehouse will go to Ottawa early in the week to see what arrangements can be made for handarrangements can be made for hand-ling them. In the meantime these men are being granted a thirty-day leave. As it is absolutely necessary for the authorities to keep track of all such cases, it is suggested that the men be required to report at regular-ly fixed intervals, and that the offi-cials have the right to investigate all cases again at any time. Another point to be taken up is the harvest point to be taken up in the harvest leave. Within a month the early har-vesting will be upon the farmer, and the agricultural representative states that for a couple of months there will be a great demand for men on the farms."

Roderick Mackenzie Addresses C. M. A.

A N unexpected turn was given to a recent meeting of the C.M.A. when, departing from the set program the president called to the platform Mr. Roderick MacKenzie, Secretary of the National Council of Secretary of the National Council of Agriculture, of Winnipes. Mr. Mac-Kenzle is a farmer who knows the farmer's viewpoint and the problems that confront him. He was given a big recention.

"We have here a country with vast possibilities," said he, "and we must all do our united best for the proper development of the country."
(Cheers.) "We cannot do without manufacturers, neither can we do without the farmers; a diversity of interests and business is necessary for the proper development of country, and the proper relationships country, and the proper relationships must be maintained. These cannot be maintained if one industrial inter-est thinks that it is made to suffer and is suffering by privileges being bestowed on the other industrial in-terest. If such is so, then development is being impaired and retarded The future development of this coun try depends upon the further utiliza-

'Let Us Discuss It Out." "Let Us Discuss it Out."

He then spoke of the gradual depopulation of the rural communities and the increase of the urban population, "which is imposing still heavter burdens on the farmers." her burdens on the farmers." "Naturally, we cannot get along without manufacturers," he continued, "but we have got to be shown where the Industries need protection, and we have got to be also shown that we cannot do without an industry that needs protection. (Laughter.) What We want is a conference of the renresentatives of farmers and manufac-turers with all the cards on the table. and let us discuss it out, not fight it

Inspector Kennedy's Threats

N connection with the threat of Inspector Geo. Kennedy that he would have closed down the rewould have closed down the re-cent farmers' convention in Toronto had he known the nature of its pro-ceedings, and vill take such action in future, the Toronto Globe says edi-

"Canada is not Germany, where the police or the military authorities. prohibit public meetings at their pleasure. The Massey Hall meeting pleasure. The Massey Hall meeting was an effort to persuade the Government to interpret the new military regulations so as to exempt farm workers from military service under certain conditions. The resolutions passed were moderately worded and in no sense could they be construed as illegal.

"A few of the speeches at Massey Hall were intemperate, and some expressions were dropped, such as pro-posals to buy no more Victory Ronds posals to buy no more Victory Bonds and to resist the Military Service Act, which invited the attention of the police, but these cases were highly exceptional, and contrary to the prevailing spirit of the addresses. The closing of the convention because of two or three hotheads would have been an act of Prussianism which would have stirred farmers which would have stirred farmers everywhere to wrath and created an amount of bitterness that would have been a national misfortune. Sufficient harm has been done by Inspector Kennedy's unwise language. He is arrogating to himself too much exit to be understood of the law, have not been abrogated in this country, and the Government is not so sacred that public criticism of it is a form of less majeste."

A the United Farmers Coopen tive Co. of New Brusside Ltd., C. L. Smith was made president of the company, Rennie Tracy, vice president, and C. Gordon Sharpe and president, and C. Gordon Sharpe sectreas. Committees were appointed to arrange for the purchase of ferus zers and feed and to arrange to sun a cooperative store in Woodstock is

a cooperative store in Woodstock a the near future. At an executive meeting of a United Farmers of N.B., held a Woodstock on May 31st, arrang-ments were made to carry on an Woodstock on May 31st, arrangements were made to carry, arrangements were made to carry on an etensive organizing programs, throughout the provinced software throughout the provinced as oliverable to the software of the software organizing throughout young and A. C. Chapmas tension of the software of from R. McKenzie, Secretary of Cas-dian Council of Agriculture, was rest in which the Council offers to send a man to assist in organizing in the province. This was received with se-

A New Club Organized

NOTHER new farmers' ch sprang into existence on Thurday, May 30, 1918, when a large new club was organized at Douro, a Douro township, Peterboro count. Dours township, Feterboro count.

The principal speaker was H. E.
Cowan, Editor-in-Chief of Farm all
Dairy, who described the cause
which led to the launching of the farmers' movement as it sprang up in the west some years ago, and in the west some years ago, as which is now extending through the east. Mr. Anderson, of the Wirsen aw Farmers' (Jub, told about the work of the farmers' delegation at Ottawa. The meeting voted unsuly to organise. The President is Mr. M. D. Suillvan, of Lakeds, and the Secretary, Joseph Garm, of R. R. No. 9, Peterboro.

New Brunswick Activities

Following up the desire s vention in Toronto that a resent the farmers' views, tors of the U.F.O. have as committee of five to take that direction. An appeal agni out to all farmers who in the Ottawa delegation ar tended the recent conventi ronto to find how much the million to subscribe for the

Official Organ

willing to subscribe for the of such a paper.

The appeal states that a the committee knows he money is available it will be money is available it will b in decide whether or not-should be a daily or a wee-mone subscribed will be a trust fund and will be as-of an official organ. If it found later that it is not p to star a paper the mone refunded to those who cont this is an opportunity for f down much they are in in this matter. There are m question and who may not re of these notices. They will of these notices. They will assist the movement, should desire, by writing direct to Kernarhan, the chairman of Kernarhan, the chairman of Heations committee, at Good to Mr. J. J. Morrison, Secrets United Farmers of Toronto, Street, Toronto, Ontario.

Echoes of the Toronto Cor So many interesting thin held in Toronto, June 7 and impossible to report them al last week's issue of Farm a The following added notes should be of interest:

Mr. C. W. Gurney, of Pari





Desk 111 Hallam B

WOOL



A part of the large gathering of farmers at the recent convention in Massey Hall, Toronto. At the extreme left of the picture, next the platform, is Mr. & J. Morrison, Secretary of ine U. F. O., and on the platform, facing the camera, is Mr. H. B. Cowan, of Farm and Dairy.

1912

Official Organ

Following up the desire so strongly mpressed at the recent farmers' vention in Toronto that an official erean should be established resent the farmers' views, the Direct ters of the U.F.O. have appointed a tors of the U.F.O. have appointed a committee of five to take steps in that direction. An appeal is to be sent out to all farmers who took part in the Ottawa delegation and who attended the recent convention in Torente to subscribe for the starting

of such a paper.

The appeal states that as soon as the committee knows how much money is available it will be possible to decide whether or not the paper should be a daily or a weekly. The money subscribed will be put in a trust fund and will be used for no other purpose than for the starting of an official organ. If it should be found later that it is not practicable to start a paper the money will be refunded to those who contributed it This is an opportunity for farmers to show how much they are in earnest in this matter. There are many farmers who may be interested in this question and who may not receive one of these notices. They will be able to desire, by writing direct to Mr. J. N. Kernachan, the chairman of the pub Remarkan, the chairman of the publications committee, at Goderich, or to Mr. J. J. Morrison, Secretary of the United Farmers of Toronto, 2 Francis Street, Toronto, Ontario.

Echoes of the Toronto Convention.

So many interesting things were held in Toronto, June 7 and 8 it was impossible to report them all fully in last week's issue of Farm and Dairy. The following added notes therefore should be of interest:

Mr. C. W. Gurney, of Paris, declar-

Desk 111 Hallam Building

pislead the farmers in regard to the relative importance of securing more bers of the farmers' committee, who remained in Ottawa to consult with remained in Oltawa to consult with the Government, were repeatedly in-formed that Premser Lloyd George in his cablegram to the Government had used the words. "For God's sake sand us men and more men, even at the ex-pense of production." Later the committee was informed that the cable mittee was informed that the cable gram did not contain the words, "even at the expense of production." Sir Wilfrid Laurier challenged the Gov ernment to substantiate the claim that the words in question appeared that the words in question appeared in the cablegram. No one attempted to do so. The result was, in Mr. Gur-ney's opinion, that it showed it was all a piece of stage play.

A great impression was made on the Ontario farmers who went to Ottawa and who there came in contact with the several thousand farmers from the province of Quebec, who were present on the same errand. The belief was freely expressed that whereas the formers in these two provinces have been kept separate in the past largely through the efforts of selfish interests it should be possible for them here after to have a better understanding of each other's problems and to work together more closely. The presence of several leaders in the farmers' movement in Quebec at the Toronto meeting tended to strengthen the detween the farmers of the two prov-

The question was asked in Toronto if it was true that the farmers of Ouebec were not doing their duty in the matter of supplying soldiers for the matter of supplying soldiers for the front. It was answered by Jean Mas-son, of Montreal. "The farmers of Quebrc" said Mr. Masson, "have done all that has been required of them. The Military Service Act gave them

TORONTO

HIDES

permission to apply for the exemption of their sons, which they did, just as they were not so misled as Ontario farmers by the promises of the politicians at the time of the last election not to conscript form labor. Therefore they may have less to regret now because they refused to believe these promises. When the Government said that no more exemptions would be allowed to farmers or any other ss the boys from the farms of Quebec and from the cities as well enlisted quickly and readily, so much so in fact that some of the very papers that were formerly accusing them of being disloyal have since been led to remark on how splendidly the young men from Onebec were enlisting

"While our committee was at Ottawa," said Mr. J. J. Morrison, "we tawa," said Mr. J. J. Morrison, we saw some peculiar things. There was a cabinet of 23 men behand whom were some 130 odd members of the House who supported them from the Government benches. Across from them sat the members of the Opposition. The 23 members of the Cabinet practically did as they liked by means of Orders-in-Council and in other sim itar ways. Many of their 130 or more supporters complained over their acsupporters complained over their ac-tions but always voted to support them. Apparently, the only means of reaching the 23 members of the Cabinet is by bringing such pressure to bear in the rural constituencies on the Government supporters in the House that they will compel the Government to change its policy where this is likeWhat needs to be done is for you nier to go home and get busy on yo members. You must organize on the back concessions and not expect us to de it for you. You have got plenty of material for this work in your home centres if you will only realize it and

A Women's Section of the U.F.O. Proposed

(Continued from page 20.)

that it should not in any way interfere with the work of the Women's Instiout, the work of the Institutes would go on in the same way while in the U.F.O organization, the women would have an opportunity to take part in the pigger and broader problems of the

After considerable more discussion it was decided to appoint a provisional it was decided to appoint a provisional committee of the proposed U.F.W.O., consisting of the following officers: President, Mrs. Brodle, Newmarket, Vice-President, Mrs. Foote, Newmarket, and Miss Griesbach, secretary. All the ladies present were also placed on the executive. The object of this standing committee is to do all they can to familiarize the women in their can to tamiliarize the women in their various communities with the work of the U.F.O. and what it stands for. When the annual meeting of the U.F.O. is held in December therefore, and the constitution is changed so as to allow the women to become a section of the United Farmers of Ontario, they will be unanimous in their support of the

Which Crop 300 Bus, or 125 Bus. Will YOU Harvest?

Every potato grower in Ontario has it largely in his own hands as to the yield per acre he secures. He can quite easily vary this yield from 50 to 100 bus. per acre by little special care. Foliage half devoured by potato bugs never produced a full crop. You can control potato bugs perfectly with



The largest in our line in Canada

FURS





Fairbanks Wagon Scales

are the practical heavy load scale for the farm as well as for contractors, builders, hay and grain dealers or coal merchants. They combine convenience, simplicity and accuracy. Fair-banks Wagon Scales fill every weighing requirement in

Capacities 5 and 10 Tons

Every Fairbanks Wagon Scale may be fitted with a Compound or Columbia Grain Beam, adaptable to graduations and standards required by the purchaser. Platforms are of steel frame construction and vary from 8 x 14 ft. to 7 ft. 11 in. x 22 ft. Trame construction and vary from 8 x 19 ft. to 7 ft. 11 in. x 22 ft. Extension levers to carry beams 20 feet from scales are another convenient device obtainable at small additional cost, making it possible to locate the weighing beam under cover of an adjoining building.

Fairbanks Pitless Wagon Scales

are convenient and accurate scales for use where a pit is undesirable. The height of scale is only nine inches from top of platform to bottom of steel frame. This is an ideal scale for farm, contracting and quarry use. Capacity 5 tons. All prices are exclusive of timber and foundations. Write our nearest branch for full particulars.

The Canadian Fairbanks-Morse Co., Limited

St. John Quebec Montreal Ottawa Toronto Hamilton Winnipeg Calgary Windsor

Saskatoon Vancouver

EVIE STOCK FARM Chesterville, Ont.

PURE BRED

J.&C.C. BALLANTYNE, Proprietors

We still have on hand, a few yearling bulls and heifers, all from Imported Dams and aire. BRED
AYRSHIRES
AYRSHIRES
BALLANTYNE,
BALLANTYNE,
Iron imported Dams and alrea
spiring's calves for sale. Anyone wishing to get something really good in purebreak prairies, will never have break prairies, will never have break prairies. All at except insully reasonable prices and terms. Our Mr. Avery on the province of the prairies of the province of the prairies of the province tion and prices

-ELMCREST AYRSHIR # 8 -

Herd Sire—Glenhurst Torrs Master, sired by Lessnessnock Comet. Young stock for sale, all ages, at reasonable prices. One exceptionally good yearing buil. Write for SANDILAND BROTHERS.

WILLIAMSTOWN, ONTARIO

Young calves, either sex; several from R. O. P. cows; also a few bulls fit for service year. It will pay to come and see or write for prices if wanting anything in choice

LAKESIDE AYRSHIRES .

A choice selection of young bulls for sale from Record of Performance dans, imported and Canadian bred. Sires; Auchenbrain Sea Feam (Imp.), 36785; many times grand champion. Fairfield Mains Triumph (Imp.), 5137; a son of the noted Hobsland Perfect Piece. Write fer catalogue.

talogue.
Proprietor:
GEO. H. MONTGOMERY
ominion Express Bidg., Montreal.

Manager: D. McARTHUR, Philipsburg, Que

HIGH CLASS REGISTERED JERSEYS FOR SALE-Some i.ne young bulls for sale—all-from Island blood sires, and good, producin dams. Friced to sell from \$50 to \$150 each. Also some fine cows at \$200 each Write at once. Guaranteed as represented. T. J. HETHERINGTON, Peterbore, Ont

When Writing Mention Farm and Dairy

ANOTHER of the high which in Candidan Holstein history was touched of an An Treasday, June 11th, when Dr. of at his remarks of the high which in Candidan Holstein history was touched of at his remarks of the history was touched of at his remarks of the history was touched of at his remarks of the history was touched of all his remarks of the history realized, and in the variety and changed as nos of the record makes of the breed. One of the notable features also, the history of the

calf sold for \$450 to W. F. Elliott, of Unionville.

The next highest price was \$1,460. This price is not continued in the property of the sale, and had given fit is not continued in the property of the pro

June 20, 1818.

34.009 for five beads J. T. Shanahan, et Nisgara Maid Farms, \$2.00 for for bag, and H. Carson, of Ottawa, who bount and the control of the c

A CORRECTION.

Through a printer's error in the June 6th Issue of Farm and Deiry, the date of the consignment sale at Hamilton was given as June 26 in the advertisement of Mr. T. A. Dawson, of Lakeview Farm. This should have been June 25. Breeders will note this Ji the corrected ad, of Mr. Dawson in this issue.

ad. of Mr. Dawson in this issue.

4305, P. B. Nelson, Campbellford, Ont. Segis Cynthia, 1338, Wm. Currey, America Cynthia, 1348, Ph. 1348, Ph

A SPLENDID JERSEY SIRE

A SPLENDID JERSEY SIRE

FOR SALE OR EXCHANGE.

"Bonheur of Ottawa" 5483, dropped October, 1914, zolid color, white tengue, Dain, Frampton Rosa, Bonheur 53, BMC, whose record was 5,188 milk, 484 the fat in 288 days. Sire, Brampton Mon Phantr, whose dam nide, 484 the fat in 288 days. Sire, Brampton Mon Phantr, whose dam nide of the color of th

ABBOTSFORD JERSEY STOCK FARM, L'Orignal. E. A. JOHNSON, Prop.

THE EDGELEY CHAMPION HERD OF JERSEYS. Write us about your next herd sire. We now have some of our present herd sin. Edgeley: Firight Prince, who is a son of Canada's champion butter cow. Subbase of Edgeley and the son of Canada's champion butter cow. Subbase of Edgeley in not the only high-record ow we have. We are being in Subbase of Edgeley in not the only high-record ow we have. We have. We have. (Woodbridge, C.P.R., Concord, G.T.R.) EDGELEY, ONT. June 20, 1918.

sen mieter's Leita De Kol. (20)

and a wrant her male, calt a special warms her male calt a special warms of the special

Holstein News

FICIAL RECORDS OF HOLS FRIESIAN COWS FROM MATO 31, 1918. Mature Class.

Mature Class.

Pontiac Jessie, 15013, 8y. 30d.
milk, 27.56 lbs. fat, 34.46 lbs.
McDowell. Oxford Centre.
Princess Festi Walker, 18093, 6;
1746. lbs. milk, 26.45 lbs. fat
sutter. W. L. Shaw, Newma
Fairview Korndyke Boon
18, 71, 10, 23d, 5852 lbs. milk
iat 31.41 lbs. butter. W. L.
Abbekerk Beeta Korndyke, 439



Lakeview Dutchland Artis," si Just completed record lbs. butter in 7 days. Ow

im 9d.; 532.4 lbs. milk, 24.42 ll 953 lbs. butter. W. L. Shaw. 6. Woodcreel Butterfly Pleijs, 47 m. 1d.; 441.1 lbs. milk, 20.93 lb. 154 lbs. butter. A. C. Hardy, Bro 6. Mabel Walker, 28756, 59. 156 s. milk, 20.73 lbs. fat, 25.94 lbs. 21-day record: 1,709.09 lbs. mill. 10. fat, 74.56 hs. butter. Wm. H.

a. fat. 1. 25 bb. outter. Win. 24.

7. Inka Sivita Maida, 1662, 79. 26

70.1 bb. milk. 20.56 bb. fat. 25

70.1 bb. milk. 20.56 bb. fat. 25

81 bb. milk. 10.75 bb. fat. 25

82 bb. milk. 10.77 bb. fat. 25

83 bb. milk. 10.77 bb. fat. 25

84 bb. milk. 10.77 bb. milk. 10.78

85 bb. milk. 10.78

84 fr. 10.84 bb. milk. 10.

14-day record: 904.7 lbs. milk, 29 tt, 36.92 lbs. butter, Elias Snyder

Holstein News

FICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM MAY 1 TO 31, 1918. Mature Class.

Mature Class.

Desila Jesse, 18018, 8y. 20d.; 629.9
alli, 27.56 bbs. fat, 34.46 bbs. butter.
McDowell. Oxford Centre.
Princess Segis Walker, 1893, 6y. 19m.
1746 bbs. milk, 26.46 bbs. fat, 25.06
butter.
1746 bbs. milk, 26.45 bbs. fat, 25.06
butter.
1746 bbs. milk, 26.45 bbs. fat, 25.06
butter.
1746 bbs. milk, 26.45 bbs. milk, 26.13
bbs. milk, 26

Senior Four-year Class

Senior Four-year Class.

1. Princess Segis Posch, 28759, 4y. 6m. 16d.; 554.3 lbs. milk, 26.08 lbs. fat, 32.51 lbs. butter.

14-day record: 1,154.1 lbs. milk, 48.85 lbs. fat, 61.06 lbs. butter. Ed. B. Purtelle. Bloomfield.

hs. butter: cord: 1.34.1 hs. milk, 48.8b 14-day record: 1.34.1 hs. milk, 48.8b 14-day record: 1.54.2 hs. milk, 48.8b 14-day record: 1.54.2 hs. milk, 48.8b 14-day record: 1.54.2 hs. milk, 23.15 hs. milk, 15.69 hs. milk, 15.69 hs. milk, 10.61 hs. butter. Watter M. Lea, Victoria, 4.7b 14-day record: 1.54.2 hs. milk, 14.15 hs. fat, 17.65 hs. butter, Joseph Kilgour, 17.65 hs. milk, 17.65 hs. milk, 17.65 hs. hutter, Joseph Kilgour, 17.65 hs. milk, 17.65 hs. mi

Junior Four-Vear Class

Junier Four-Vear Class.

1. Avondair Foutiac Pauline, 27272, 4y.
3m. 28d.; 464.7 bis. milk, 28.09 ibs. fat,
28.31 lbs. butter, A. C. Hardy-Fr.
28-day record, 1,927.0 ibs. milk, 91.03 ibs.
fat, 115.79 lbs. butter, A. C. Hardy-fy,
4y. 2m. 4d.; 474.2 lbs. milk, 22.54 lbs. fat,
28.18 lbs. butter,
28-day record: 2,042.5 lbs. milk, 88.96
lbs. fat, 111.28 lbs. butter, A. C. Hardy572.0 ibs. milk, 22.44 lbs. fat, 28.05 lbs.
butter,

572.0 ins.

30-day record: 2,339.2 lbs. milk, 92.96

30-day, 16.29 lbs. butter, J. W. Stewart, Lyn.

4. Low Banks Lady Korndyke, 39774, 4y,
14. 568.9 lbs. milk, 22.26 lbs. fast, 22.

1bs. butter,

2,378.5 lbs. mill, 82,35

16.1 seeks 25. 3 milk, 82.35 bbs. milk, 82.35 bbs. fat, 102.93 bbs. butter. K. M. Dalgielsh, Kemora, ave, 27.29, 4y; Im. 124.483.7 bbs. milk, 21.63 bbs. fat, 27.04 bbs. butter. W. L. Shaw. 4. 27.04 bbs. milk, 21.83 bbs. fat, 27.04 bbs. butter. W. L. Shaw. 25.04, 25.35 bbs. 65.4 bbs. milk, 21.25 bbs. fat, 25.55 bbs. 65.4 bbs. milk, 21.25 bbs. fat, 25.55 bbs.

buiter. W. R. Cummings, Cumming's Bridge, areo Johanna Rue Allee, 2017, 4y. 2m. 11d.; 531.3 Bs. mili, 19,34 bb. cai, 44.64 bs. butter. 14-day record: 1,043.4 lbs. cails, 27.45 bs. Villa View Augrie Netherland, 2389, 6y. lm. 3d.; 513.6 bs. milk, 17.11 bs. dat. 21.39 Jbs. butter. 21.38 Jbs. dat. 49.19 Jbs. milk, 22.73 Bs. fat, 49.9 Jbs. butter. Ellas Shyder, Burgasville.

9. Colony Fayne Canary, 30128, 4v. 2m. 2d.: 487.3 lbs. milk, 16.13 lbs. fat, 20.16 lbs.



akeview Dutchland Artis," sire Dutchland Col. Sir Mona, dam Lakeview tis. Just completed record in mature class of 654.5 lbs. of milk, and 43.06 lbs. butter in 7 days. Owned by Lakeview Stock Farm, Bronte, Ont.

18d; 532.4 lbs. milk, 24.42 lbs. fat, 2 lbs. butter, W, L. Shaw. Woodcrest Eutterfly Pietje, 47391, 5y. 1d; 44.1 lbs. milk, 20.33 lbs. fat, 6 lbs. butter, A. C. Hardy, Brockville, Mabel Walker, 28756, 5y. 15d; 612.9 mik, 20.73 lbs. fat, 25.94 lbs. butter, 43r record: 1,706.69 lbs. milk, 53.16 fat, 125.5 lbs. butter, Wn. H. Gough, 1,706.69 lbs. H. Gough, 1,706.69 lbs. H. Gough, 1,725 lbs. butter, Wn. H. Gough, 1,725 lbs. butte

bs. butter.

sood.
Tidy DeKol Calamity, 12601, 8y.
22d.; 490.3 lbs. milk, 17,81 fbs. fat,
fbs. butter. W. L. Shaw, Newmar-

butter.

30-day record: 2,002.7 lbs. milk, 67.68 lbs. fat, 84.00 lbs. butter. Colony Parm.

10. 1va Ormsby Fayne, 284.09, 4y; 590.7 lbs. milk, 18.16 lbs. fat, 18.36 lbs. butter.

11. Carris Minto Gerben, 131.48, 4y; 2m; 204.11 lbs. fat, 18.30 lbs. butter.

12. Victoria Johanne, 393.88, 4y; 134.44 lbs. fat, 18.30 lbs. milk, 12.56 lbs. fat, 18.70 lbs. milk, 12.56 lbs. fat, 18.70 lbs. butter. Joseph Peel. Senior Three-Year Class. Serior Three-Vear Class.

1. Johanna Porulac Segis, 25510, 3y, 19m, 23d, 5337, 19s, milk, 20.51 hs. fat, 25-day, 25-da butter Griesbach Bros.

S. Zella Pielge Queen. 43967, 5y. 8m.,

1474.8 lbs. milk, 15.49 lbs. fat, 19.37 butter. W. L. Shaw.

Lalu Posch Calamity, 1747, 5y. 7m.,

1432 lbs. milk, 15.46 lbs. fat, 19.39 butter. W. Fred Pallis, Millsbrook.

Mand DeKol Abbekerk, 21146, 5y. 5m.,

1461.4 bs. milk, 15.63 lbs. fat, 18.39 14-day record: 904.7 lbs. milk, 29.54 lbs. t, 36.92 lbs. butter. Elias Snyder, BurAKEVIEW HOLSTEINS AT AUCTION

Jockey Club Grounds HAMILTON, ONT., JUNE 25th.



LAKEVIEW RATTLER Canadian Champion 30 day Mature Cow 8 months after calving 61.20, Milk 1409.7

Milk - 724.

She will be included in my consignment, also her two daughters, one grand daughter and her two daughters.

grand aughter and her two daughters of the 43-lb, cow, Lakeview Dutchland Arthr (see photo on this page) one full sister, Lakeview Dutchland Arthr (see photo on this page) one full sister, Lakeview Dutchland Artis We are also offering a son of Lakeview Lestrange, 74.12 lbs. mills, 35.66 lbs Butter, Sired by Dutchland Arthr (Lestrange, 74.15 lbs.), and Dutchland Arthr, 5.08, and Lakeview D. C. Ross, 3.17 lbs., world's chamberly the control of the public at auction. Come and Duy them at your own price.

BRONTE, ONT.

Major E. F. Osler, Prop. T. A. Dawson, Mgr.

May Echo Sylvia's Son

AT SERVICE

Avondale Farm is prepared to book a few approved cows for service to CHAMPION ECHO SYLVIA PONTIAC.

His first daughter to be sold brought \$2,900 public auction six months old. His sire's daughters are now coming on, making a grand showing, three over 30 lbs. this season. His dam is in a class of her own in many respects.

CHAMPION is a faultless individual-his stock is equally good. We have some grand bull calves for sale.

Write for pedigree and terms.

H. LYNN, Supt. Avondale Farm R. R. No. 3 Brockville, Ont.

Herdsman Wanted=

CHOICE YORKSHIRE HOGS AT RIGHT PRICES

Boars and sows, all ages, from best prize-winning strains—a few good bred sows, also younger stock. S. C, White Leptorn eggs for hatching—Bar-ron's 252-egg strain. S. S. Brown Leghorns, Barred Rocks, R. I. Reds, 32 per 15; 319 per 109. Fawn and White I. R. Duck eggs, 33 per 11. Chinese gooss eggs, 400 each.

MILTON, ONTARIO

cured by Fleming's Spavin and Ringbone Paste, no matter how old the blemish. Full price refunded if it fails to cure either Bone Spavin, Ringbone or Sidebone. Fleming's Vest Pocket Veterinary Advises sent free on request.

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

Farm and Dairy is in an excel-lent position to champion the cause of the farmer in Canada, because it is owned and controlled exclusively by farmers...

=RIVERSIDE FARMS=

will be represented at

The HAMILTON Sale June 25th, 1918

One Sire (fit for service)

a brother of

Toitilla of Riverside former R.O.P. Champion of Canada

__ and___

Three Tested Daughters

--- of---

King Johanna Pontiac Korndyke

The sire of 27 tested daughters, averaging around 4 per cent. A grandson of Colantha Johanna Lad and Pontiac Korndyke and a brother of Pontiac Lady Korndyke butter, 38.03. His breeding is hard to equal.

J.W. Richardson, Caledonia, Ont.

Mr. Good Breeder

Do You Know

That last season, owing to our not having a sin of our own, good enough to our not having a sin of our own, good enough to our win, and the season of the se

ED. B. PURTELLE Old Orchard Farm Bloomfield, Ont.

HOLSTEINS

Our grand buil, "UECTOR DEKOL OF CRYSTAL SPRINGS," for sale. This fellow is backed by the most excellent breeding on both airs and dam's side. He is a beauty, a regular show animal, and guaranteed O.K. in every way. He was 3 years old on April last. Write or come and see him.

John M. Montle, Prop. SUNNYSIDE STOCK FARM. Stanstead, Oue.

MIN ROYAL PAIRM

PrinceWaldorf Segis

whose dam gave 116½ fbs. in a day, 31 hs. butter in a week.

Bull. CALF 7 months old, straight and beautifully marked, nearly ready for light service. Dam gave nearly 22 hs. butter in 7 day, 70 hs. milk in a day.

10 hs. butter in a week, 75 hs. of milk in a day. We marked the part will be the property of the part will be the p

advertising reliable goods. They want to know you; also want to know where you saw the Ad. When writing them don't forget to tell them you saw the Ad. in FARM AND DAIRY. You'll Find the Advertisers

Thomas.
6. Victoria Heien, 33826, 3y, 11m, 13d.;
6. Victoria Heien, 33826, 3y, 11m, 13d.;
457.6 lbs. milk, 14.19 lbs. fat, 17.74 lbs. butter. Joseph Peel.
7. Nancy Colantha Wayne, 35092, 3y, 11m, 3d.; 430.6 lbs. milk, 13.26 lbs. fat, 18.57 lbs. butter. David Caughell.
(Continued next week.)

MANOR FARM OFFERING AT HAMIL.

best day's milk 122.8 lbs.
Mr. Gooderham has two bull calvee in
the sale. A six months east by King
Corndyke Salke Keyes, with an average
the sale. A six months east by King
Corndyke Salke Keyes, with an average
teven days and 106 lbs. milk in one day,
værage for dam and aleré dam. This
obser calf, a fine individual, is a grandgrandest give of the breed. Average for
tam and sire's dam at three years, 30,50
bs. of butter in seven days.

THE PASSING OF C. M. WINSLOW.

THE PASSING OF C. M. WINGLOW.

THAILING M. WINNLOW, Secretary of the Ayrshire Breeders' Association in the United States, escounded to an anomal of the Ayrshire Breeders' Association in the United States, escounded to an anomal of the United States loses one of the ploneer delaymen. He was a nater by many of his friends. He was a charter member of the Ayrshire Breeders' Association of the United States, wives,—I. R. C. Watson of Brandon, VI. Mr. Winslow was responsible for the incorporation of the association in 183s, and the property of the second of the association in 183s, and the second of the

THE RIVERSIDE CONSIGNMENT TO

"HE animals consigned by J. W. Richardson, of Riveraide Farms, Caledonia, at the Hamilton Consignment action, in the Hamilton Consignment that noted here aire, King Johanna Ponthas Forder and the Consideration of the Co

iam of Toitifla of Riverside.
Riverside Pourtiac Daisy is out of Daisy
belood of Riverside, butter 27.25, a sixare of Jennium Johanna Wayne, butter
10.20 and Toitifla of Riverside The
10.20 and Toitifla of Ri

AVRSHIRES SELL WELL

AMERICAN HOLSTEIN MEN MEET

A despatch from Ottawa, dated Just 16, reads as follows.

MARKET

June 20, 1918

nominal (including 2½ ern., \$2.23½; No. 2 nor: northern, 2.17½; No. northern, 2.17½; No. ontario Wheat— in store, Montreal.

Quotations are as follows: 5.50 to \$16.50 for No. 1 to \$14: straw, carlots, patreal quotes No. 2 hay a POTATOES AND BE.

hemi: Poreign, hand-picked,

Bet Hibbs AND WOO

Bet

Sel medium and combing, since leaves to the per grant size the per gra

MARKET REVIEW AND FORECAST

TORONTO, June 17.—The first tune crop reported from the United States of the Corp reported from the

aling part time Flass prices are no lon-low:

Manitoba Wheat—In store, Fort Wil-Bam, nominal (including 2½6 ct ax); No. 1 nordiern, 32.33½; No. 2 northern, 32.20½; No. 3 northern, 32.75½; No. 4 wheat, 12.10½. Ontario Wheat.—No. 2, \$2.22, basis in store, Montreal.

COARSE GRAINS. **

COARSE GRAINS. **

hads in store, Montreal.

Pricon generally recorded incremings as compared to the property of the property of

MILL FEEDS.

mai.

Peices for all lines or mill feads are being maintained with a steady Germand for supplies. Bran is quoted, warrota, delivered, Montreal freight, burs included or strong the street of the stre

wires. II.76 to \$1.85.
Canadian prime beans, \$77.50 to \$8 abush. Prime beans, \$77.50 to \$8.50 biss. Prime beans, \$77.50 to \$7.50 biss. Prime beans, \$77.50 to \$7.50 biss. Prime beans, \$77.50 to \$1.50 biss. Prime beans, \$77.50 to \$1.50 to

Large Gauntiline are butter are said to be soing into storage on this account there is a firmer tone to the soing into storage on the account there is a firmer tone to the butter are said to the soing into storage of the said to the said the said

sold at 234c.

Drockvile, June 13.—4,267 were offered:

1 Brockvile, June 13.—4,267 were offered:

2 Brockvile, June 14.—4,267 were offered:

2 Campbellord, June 13.—675 boxes were offered:

2 Campbellord, June 13.—96 white boarded.

All sold at 225-6c.

Bellowder and rimety sold at 225-6c.

All sold at 225-6c.

Bellowder and rimety sold at 225-6c.

Bellowder and 225-6c.

Bellowder

Butchers' steers and			7.41.01
heifers, choice	12.50	to	13.20
do geod	11.76		12.2
do medium	10.50		11.50
do common	8.25		9.50
Butdhers' cows, choice	12.50		13.58
do good	11.50		13.25
do medium	9.00		11.00
do common	6.75		7.50
	6.00		6.25
Butchers' bulls, choice	12.50		. 13.50
do medium	11:00		12.25
do common	8.50		10.00
Feeders, best	7.50		8.00
Stockers, best	9.50		11.75

LLENROC STOCK FARM

ON THE BOULEVARD OF THE BEAUTIFUL NIAGARA RIVER

A few high record Helstein bulls for sale at reasonable prices; also Holstein females in ealf to our Junior Rag Apple Bull. Address.

W. C. HOUCK, R. R. 1, Chippawa, Ont.

HOLSTEINS-

One 2-year-old buil; 1 buil 18 months, out of a 231/2-lb. 3-year-old dam; 1 buil 13 months; others younger.

R.M. Holthy

R.R. No. 4

Port Perry, Ont

BULL For Sales

Born March 17. A nice, streight, three-quarter, white calf with good typ. His size is a good individual, 35.37 lb., son of a 34.45-lb. cow. His dam is every types 31.84-lb. jusion 3-year-old daughter of a 33.56-lb. bull is a beautiful 36-lb. cow. His daw is a beautiful 36-lb. cow. His daw record, average 30 lbs. butter and 558 bb. milk. Hagersville, Ont. H. W. PARKINSON Haldimand Co.

CLOVER BAR STOCK FARM OFFERS

Ne have only two young buils left; both will be fit for service this fall. Beautiful dividuels, with choicest breeding. Write for full particulars. Two are priced years

THE O'REILLY STOCK FARM.

SUNNYSIDE STOCK FARM HOLSTEINS

ECHO SEGIE FAYER, our herd sire, is by a brother of the world's 50-th cow. Segie Fayne Johanna. He is a grand bull in every way, and is not yet years old. To avoid in-breeding would sell him at a price. Also have bulls and out of grand productions months old for sale, sired by Echo Segis Fayne and out of grand producing cover. If you need a well backed bull, write or come and see them.

JOHN M. MONTLE, Prop. Sunnyside Stock Farm, STANSTEAD, QUE.

The Ideal Cross

Breeding

Animals of the Choicest

Breeding

M June 25

H

A

at

T 1918

Manor Farm's

Consignment

Thirty Pound Cows Daughters of Thirty lb. Cows

Gordon S. Gooderham, Clarkson, Ont.

Third and Last Call For the Big Sale

HAMILTON

CANADA June 25th, 1918

Fellow Breeders, do not overlook this great consignment sale of High Producing Holsteins, where more High record cows and sons and daughters of such will be offered

to you at your own price, than Sale Ring in Canada, including adian Champion Cow, a fulldaughters, 1 grand-daughter a nearly 38 lb. Canadian Cham-38 lb. cow, and the most select sires of the breed, with some



ever before were put into a 2 daughters of the 43 lb. Cansister and her daughter; 2 and 2 great granddaughters of pion Cow, as well as a son of a daughters of some of the best show ring winners in show

shape. Practically every animal offered for sale is either a Canadian Champion, or a son or a daughter of such, from such noted herds as:—

Lakeview Stock Farms - Bronte
Manor Farms - - - Clarkson
Oak Park Stock Farm - Paris
Avondale Stock Farms - Brockville

Ridgedale Stock Farm - Palermo Riverside Farms - - - Caledonia Mr. W. C. Cox - - - Winona

Mr. Hiram Dyment - - Dundas

Remember the date, June 25th, and be with us at Hamilton. Write to-night for a catalogue to Sales Managers,

T. A. Dawson, Bronte, Ontario Gordon S. Gooderham, Clarkson