Fifth Annual Special Dairy Magazine Number

VOL. XXXII.

NUMBER 15

# ATTOME

PETERBORO, ONT.

APRIL 10

1913



SPECIAL PURPOSE COWS PROPERLY CARED FOR MAKE FOR SUCCESS ON THE DAIRY FARM SPECIAL PURPOSE COWS PROPERLY CARED FOR MAKE FOR SUCCESS ON THE DAIRY FARM Business ability, skill in crop production and unbounded energy,—all of these will fail to make the dairy farmer a financial success if his cows are not right, and properly cared for. The poor farmer with good cows stands a much better chance of "making good" than the one who grows the largest crops in the neighborhood and feeds them to cows that do not pay their board. It is the awakening among dairy farmers to an appreciation of this truth that explains the ever increasing demand for pure bred dairy cattle, and the nation-wide interest in cow testing and the premium that buyers of pure breds now place on records of production rather than show yard repu-tation. The rich man is the only person who can afford to feed a poor cow.

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> > ISSUED EACH WEEK

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and do away with the hard work of milking by hand Here are a few of the leading dairymen who have B-L-K Mechanical Milkers with which they milk their cows :

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New Hamburg, Ont. New Hamburg, Ont. Peterboro, Ont. New Hamburg, Ont. London, Ont. Dundas, Ont. Hudson Station, Que Jacob Steinmann Wm. Byres W. C. Briggs Trappist Fathers

You ought to have one! It will pay you! We'll gladly give you an estimate of just what it will cost you to put in a B-L-R Milking Machine to save you all to old-time hard work of milking your cows. Send us rough plan of your stable and tell us how many cows you want to milking.

Special Notice to Dairymen: You know our establishment is the Supplies. Place your order with us early. Wo can serve you this year every better than ever.

# . Derbyshire & Co.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

Keep Your Eyes Open! Your livestock is exposed to dangers from without and within. Indigestion, sluggish liver and bowels, weak circuwithin. Indigestion, suggests liver and lowers, weak circulation, are the cause of greater loss than accidents, since poor condition usually affects all the stock and accidents strike individuals. It pays big to keep horses, cattle, despending and logs in prime condition, capable of doing their means the difference between the condition. The sum of the condition of the conditio Pratts Animal Regulator the best animal conditioner known to stock growers. It has sto be practical test of forty years and made good all the time and ever there. It is a tomic, not a food, and est directly upon the organs edigestion. It maintains a keen appetite, perfect digestion, and the stock of the property of the stock of the stock of the 25c, 50c, \$1; 25-lb, Pall, \$3.50 where, of dige For general farm and family use nothing equals pratts Liniment ually good for man and beast. It cures sprains, aises, sore and stiff muscles. Affords relief from umatism and neuralgia. 25c, 50c, \$1 "Your money back if it fails" Stock Book FREE at dealers, or write us Our products are sold by dealers everywhere, or THE PRATT FOOD CO., OF CANADA, TORONTO, ONT.



Does This Rocky Road Explain Rural Depopulation and City Slums?

### A FURTHER INCREASE IN DAIRY PRODUCTION IN ONTARIO EXPECTED

PRESENT conditions are favor-same number of cows and they are in able for an increase in product a fair condition."—David Kelly, tion of dairy products in On-Grenville Co. Pable for an increase in produc-tion of dairy products in On-tario this coming season. It is yet early to state with any degree of certainty just what the increase will be, but from reports received from cor-respondents of Farm and Dairy who are intimately in touch with the dairy industry, we believe that the increase this year will be somewhat greater than the increase last year if weather conditions are at all favorable.

In the first place cattle are coming out of the stable in better condition, Good crops were stored in most districts last season and cattle have been wintered much better than they were wintered much better than they were
in the winter following the short
crops harvested in many sections in
1911. The quality of cows too is ever
improving and this will play a large
part in increasing dairy production.
It is difficult to ascertain from the It is difficult to ascertain from the reports of correspondents whether the number of cows is increasing or de-creasing. For instance, Mr. E. Weatherby, our correspondent in Carleton county, writes that "the majority of farmers are going into dairving extensively." Many corre-lativing extensively. Many corre-tain the control of the control of the property of the control of the control of the theory of the control of the control of the gone in most extensively the that have gone in most extensively for pure bred dairy stock. In this latter class, Oxford county seems to be an exception. There the number of cows is not increasing, farmers devoting their efforts to an improvement in the quality of stock increasing production in that way. THE OTHER SIDE

Mr. David Kelley, writing from Grenville county, says that some are increasing their dairy herds and some are decreasing and several correspondents scattered over the province hold views in common with him. Rather a pessimistic view is taken by G. B. Brodie of Middlesex county, who looks for a decreased make and fewer cows. "There might be a tendency to increase their dairy herds with some," says he, "but the majority cannot get help and just keep the number of cows they can manage nicely." Frequent reference is made to this scarcity of help and this scarcity seems to be the factor most potent in inducing farmers to improve their

The demands of the city milk sup ply are cutting more and more into the business of the cheese factories. In the extreme east many factories have been almost put out of business through the Montreal demand. Simtarough the Montreal demand, Similar conditions are found around Toronto, Ottawa, Hamilton and all other cities of importance. Condensed reports of a few\*of our correspondents

stock

"Prospects for the make of cheese are very good. We have about the

We have the same number of cows and they are in good condition. Many farmers are going into dairying ex-tensively."—E. Weetherby, Carleton

CITY PRICES ARE BETTER

"We will make less cheese than in 1912. More milk is going to Monbreal. City prices are higher than factory prices."—S. W. Morrison, Prescott Co.

"We will have a larger make this ason than last as farmers are keeping more and better cows. Farmers are going into pure bred cattle."—S. A. Kinnaird, Stormont Co.
"Farmers are keeping as many cows and some more. They have been

cows and some more. They have been wintered well."—W. O. Wert, Stormont Co.

Prospects for cheese make look good. Patrons are keeping more cows and they are in good condition."— Chas. Strader, Dundas Co.

IMPROVEMENT TALKED OF

"Prospects good. Some number of cows as last season. Farmers are talking silo building and stable im-provement."—Wm. Fitzgerald, Fron-

"Make of cheese and number of ows will compare favorably with 1912. Good cheese prices last year are in encouragement dairying."-Edward Johnson, Fron-

"Last sesson was a good one; this one will be better. Farmers are com-ing to realize that it pays to keep good cows and are acting accordingly. Cows will come out of the stable in better condition than for years."—

better condition than for years."—
H. J. Windley, Frontenac Co.
"The make of cheese will be about the same. Cows are in better contion than usual."—J. H. Haran, O.

WINTER DAIRYING INCREASING

"Our summer make of cheese will be the same, but total production is increasing as more milk is being made in winter. Cows are not more num-

in winter. Cows are not more nun-crous but of better quality and more are keeping pure breda."—O. R. Francis, Oxford Co.

"This community has changed from cheese to butter. Cowe have not increased in numbers. They will com-out of the stable in Al ahape."—J. A. Hainer, Haldimand Co.

"Farmers are going into the dairy business more extensively each year Herds are looking well and prospect-for the season are good."—C. M. Fir-by, Eigin Co. by, Elgin Co. CONDENSORY GETS THE MILK

CONDENSORY GETS THE ALLA.

"Most of the milk is going to the
condensory. Farmers are keepin
more cows and they are in good con
dition. In 1889 I made 28½ tons (Continued on page 27)

April PUB

You'll 1 through right out amongst have our the good well to re-

This iss reakerthan ever of a year

We're ju way that ahead. Wit, and kn much as 1 advertising solicit at cent, of ac will carry means son For muc

indebted to

port in this ers and in Dairy, Ou the unbou in them w tisements teed colum These fa their ads. well for th you throug They know what they sell. They Farm and paying mea quainting y effecting sa to them be sisted sales their overhe appreciate you typify it purchasing like the nice are always

We are d come more a ful to you. we are gath planning to during the n

You can e this good wo to see one o It would hel gladness to d fortune with haps you w now or see o time you go neighbors to and become a Dairy! That clasp of appr

Our next 5 Improvement out May 8th material alrea Would you ca better? A sh some improve a photograph

Just in conwishes for yo every assistan helping you to of the probabl dian Dairy In

### PUBLISHERS' DESK

You'll be delighted with this issue through and through. We've been We've been right out on the firing line as usual amongst the successful ones, and we have our pages all alive again with the good stuff, which it will pay you well to read, think over and act upon.

This issue is again a double record oreaker—going out to more people than ever before and carrying more advertising than our Dairy Annual of a year ago.

We're just a little bit proud of the way that Farm and Dairy is going ahead. When you come to think of anead. When you come to think of it, and know that we refuse absolute-ly to publish what is oftentimes as much as 22 per cent. of commercial much as 32 per cent, of commercial advertising offering, and we do not solicit at all as much as 37 ½ per cent, of advertising that most papers will carry without objection, it means something to get out issues as big as this one.

For much of this growth we are indebted to you for your loyal sup-port in thinking well of our advertisers and in talking about Farm and Dairy. Our advertisers appreciate the unbounded confidence you have in them when you see their adverin them when you see their adver-tisements in our absolutely guaranteed columns.

tisements in our absolutely guaranteed columns.

These far-sighted, keen, straightforward business men, who place their ads. in Farm and Dairy, pay well for the privilege of talking to you through their advertisements. They know that you have need of what they manufacture and have to share they know, too, that through Farm They know, too, that through Farm They know, too, that through caparing and offering sales with their goods, and effecting sales with their goods and they have thus assisted sales and cut have thus assisted sales and cut have the sales and cut of the properciate the fact that you dairy farmer, and represent all which you typify in the way of progress and purchasing power. Moreover, they like the nice clean company their ads, are always with in Farm and Dairy.

We are destined to grow and be-

We are destined to grow and become more and more useful and help-ful to you. Better and better things we are gathering and preparing and we are gamering and prepared planning to give you week by week during the months to come.

You can ensuring us greatly in this good work.

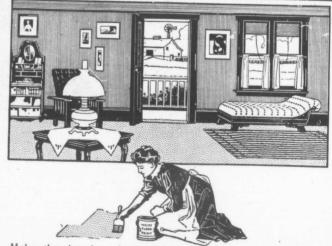
You can ensuring us greatly in this good work.

You can ensuring the plan right sow to see one of your plan right sow to see one of your that you have bors about taking Farm and Dairy! It would help us greatly and bring gladness to our hearts that you have thus passed on and shared your good fortune with your neighbors. Perhaps you will step to the 'phone row or see one of your friends first now or see one of your friends first now or see one of your friends first with your neighbors out, and ask one of your service and become a the tranks with you, and become a the tranks with you, and become a representation of your service.

Our next Special will be a Farm

Our next Special will be a Farm Improvement Number (5th annual), out May 8th. We've a lot of good material already on hand for it. Would you care to help us make it better? A short pointed letter about some improvement you have made, or a photograph, would be acceptable.

Just in conclusion, here's our best wishes for you and assurance of every assistance e can give you in helping you to get your big fat slice of the probable \$125,000,000.00 Cana-dian Dairy Industry of 1913.



Make the interior of your home comfortable, wholesome and cozy

Not everyone knows how much paints and varnishes help to do this. How old furniture can be made to look like new, s-arred, worn floors can be made clean and fresh; how walls can be decorated in pleasing colors that wear for years, and are absolutely sanitary. Here are a few hints, all can be carried out at small expense.

The S-W MAR-NOT on hardwood and hard pine floors. A durable velvety holds and the season of the se



### THE SHERWIN- WILLIAMS CO. of Canada, Limited

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LONDON, ENG.

FOR SALE—Barred Plymouth Bock, Pekin and Rouen Duck Eggs. Each, \$1.00 a setting—C. R. Wallace, Shanly, Ont.

### HOMESEEKERS **EXCURSIONS** To MANITOBA, SASKATCHEWAN

AND ALBERTA

each TUESDAY until Oct. 28 inc WINNIPEG AND RETURN ... \$35.00 EDMONTON AND RETURN ... 43.00 Proportionate low rates to other points Return limit two months

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To ALBERTA AND SASKATCHEWAN Every TUESDAY until April 29th in-clusive, from stations in Ontario, Port Hope, Peterboro and West, at very low

charies, from stations in Unitario, Fort-Hope, Peterboro and West, at very low rates.

Hope, Peterboro and West, at very low rates.

The peter state of the peter state of the peter rates steeping conduction of the peter state of the peter state of the peter state of the peter state of the peter visit of the peter state of the peter state of the The Grand Trunk Pacific Railway is The Grand Trunk Pacific Railway is the shortest and quickets route be-tween Winnipeg-Sashatoon Edmonton.

Berth Reservations and particulars from Grand Trunk agents.

It is Most Desirable that you say, "I saw your adv. in Farm and Dairy," Do this when you write advertisers and take full advantage of Our Absolute Guarantee!

## CANADIAN PACIFIC

### **EXCURSIONS** To Manitoba, Saskatchewan, Alberta

HOMESEEKERS

Low Round Trip Rates each Tuesday, March to October inclusive Winnipeg and Return - \$35.00 Edmonton and Return - 43.00 Other points in proportion Return Limit two months.

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Full particulars from any C.P.R. Agent or write M. G. Murphy, District Passenger Agent, Toronto

### HOW MR. PAT CLARKE SOLVED HIS BIGGEST PROBLEM IN DAIRYING

One of Ottawa's Leading Dairymen and His Neighbor, also a City Milkman, put in B-L-K Mechanical Milkers and do away with Hand Milking. How They Save Their Men the old time Drudgery. The Machines are Popular and are a Success. Inspected by an Editor of Farm & Dairy,

GREAT big question is in the A direct big question is in the minds of every progressive and extensive dairy farmer as to whether or not he should put in equipment to milk his cows mechanically and thereby greatly lessen the hard work and do away with the drudgery of hand milking his cows. Will pay? And is the milking machine success? You can find much in the milking machine success? You can find much in the way of satisfactory answer to your questions about Mechanical milking, by reading about the facts in the following, as secured first-hand by an editor of Farm and Dairy recently from Mr. Pat Clarke, one of Ottawa's largest and most successful dairy farmers, who supplies milk to that city; and also by noting the informa-tion as gathered from a visit to Mr. L. D. Slater's big dairy near Ottawa. both of these dairymen having now had for some little time in successful operation B-L-K Mechanical Milkers in their respective dairy stables.

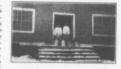
You would probably have to travel You would probably have to travel the country over to find a better in-formed and more up-to-the-minute dairyman and who has had as wide an experience up against all of the probexperience up against all of the prob-lems confronting dairymen, than Mr. Pat Clarke, of the Silver Springs Dairy Farm, Ottawa. When we call-ed on him we found him right in his dairy attending to business. He hesitated to talk at first about the success he is having with his Mech-anical Milker. We found him very cautious in his statements. He realized full well that he ought to be careful about saying too much about his success with these milkers until he had used them for several years. Because of his attitude in this respect we regarded his opinion with the more favor, and herewith set it be-fore Farm and Dairy readers for their careful consideration

At the outset Mr. Clarke said: "I have been looking at Mechanical Milkers and considering the question Mikers and considering the decision of installing them seriously, during the past seven years. I had seen 18 or 20 different installations of Mechanism anical Milkers and I even went right to the factory to see the machines. I then decided I would not have it, as had been and always will be very particular about the bacterial count in the milk and some experiments that had been concluded at the Ohio that and been concluded at the Onto Experiment Station had given me a "chill," since the bacterial count with them had gone up. But at last I had to have the milker or get out of this dairy business. I was driven to

instal the milking machine. instat the mixing machine. Before I put it in I wanted to get out of dairying, as I was sick of it, for I had had so ruch trouble with getting suitable help and men to milk the cows. I found that if I wanted to get clean milk I must put on the men, and then having put on the men there was no profit left in the business. Last year I got into greatest difficulty

Last year I got into greatest difficulty in securing men; to save the situation I put in the B-L-K Milker.

"I am getting good results and I have not missed a milking as yet with the milker. Not a cow has gone wrong in her milk flow since putting in the machine; the milk flow is more regular and it has not cost me a cent for repairs so far. I can see even with my limited experience covering the actual use of the milker, that it is here to stay. I have always said that if I could get the kind of milkers I would like, I would rather not have the machine, but if I have the same opinion at the end of the year as I now have of my B-L-K Milker, for repairs so far. I can see even forget about my former prejudice.



Mr. Clark's Outfit Milks 8 Cows at Once

As he continued to discuss the merits of this great labor-saving device for milking cows, Mr. Clarke made it clear that there was still a man problem to solve and this in connection with the operation and care of the Mechanical Milker. "I believe," he said, "that a farmer who is using the milker himself and has his wife or his daughter to give at-tention to the cleaning of it, will make the greatest success of Mechanical Milking. The man in charge of the operation of the machines should be someone whose pocket nerve is touched by every mistake that he makes. Such a man will find out all that he can about how best to oper-ate the milkers, and he will be very careful about making the same mistakes twice.

"It is in connection with cleaning the machine that great care should be exercised. The instructions sent



Placing the B-L-K Milkers on the Cows in Mr. L. D. Slater's Dairy, Ottawa, Ont. Cows in Mr. L. D. Slater's Dairy, Ottawa, Ont. a good practice also from the stand--All photos by an editor of Farm and Dairy. point of stimulating the cow to "let



B-L-K Milkers in Mr. Clarke's Stable Being Set for Us to Inspect and Photograph

by some manufacturers are all down' her milk. Then the operator as in that they advise cleaning should have time to be able to exercione a week. It stands to reach that the machine should be taken getting the machine should be taken a every day and cleaned. There pair of cows. It is difficult on a reach a rady a man that one can get to good operator. He must in addition his work rightly. A woman would to giving care to these details as sugit better and it is here that the gested, see that the pulsating is age farmer would score a point right, see that the vacuum is right,—
a large dairyman, who is depend—not too high nor too low." out oy some manufacturers are all wrong in that they advise cleaning only once a week. It stands to reason that the machine should be taken down every day and cleaned. There is hardly a man that one can get to is nardly a man that one can get to do this work rightly. A woman would do it better and it is here that the average farmer would score a point over a large dairyman, who is depend-ing on hired outside help exclus-ively."

Mr. Clarke has your units or milk-ers in his outfit; each of these milks two cows at a time. In order to keep track of the production of each in-dividual cow, the milk from each cow is weighed on every 10th day. He finds that every 10th day will give a very close estimate as to the total production. Figuring up on some of his cows for 18 months back, the total his cows for 18 months back, the total difference of every day milking was only a matter of 72 lbs. covering that extended period of time; this differ-ence he considers hardly worth while to make advisable the extra trouble of taking weighings daily for each

is considerable There is considerable to search about the management of a herd under mechanical milking to secure the best result from the Mechanical Milkers. "It is most essential," remarked Mr. Clarke, "to mate up the the best result from the Milkers. "It is most essential," remarked Mr. Clarke. "to mate up the cows in pairs, so they will milk out clean together, and thus save time on the machines. It takes one week to the machines. It takes until the ower arranged just right. One get the cows arranged just right. One should aim to build up the herd so that it will give best results when the machine is to be used for milking. Discard cows with small teats. Heifers I find milk out quickly and cleanly with the Mechanical Milker and even the heifers of last year milk out better with the machine than do the old cows. I find it is better not to milk out the cows too clean, but rather to strip out the last by hand, since you thus enable the machine to make better time. In working with heifers, or a young herd and when one is wishing to build up a herd that will give the best results with the milker, I would not advise the practice of stripping since the herd should be built up and educated as it were to milk out clean.

"A good man can operate two machines handily. For the best results I would not advise him operating more than two. I believe that the dissatisfaction some people have had with Mechanical Milkers, is because the cause they have tried to get one man to operate too many units. It is important to manipulate the udder and stimulate the secretion of the cow. We, of course, are anxious about the bacterial count in the milk we produce, therefore we have a few drops drawn from each teat just previous to attaching the machine and this is

The day previous to our visit to this farm, Dr. Higgins, of Ottawa, had been out to secure samples of the mechanically drawn milk to test for bacterial count. He had found them to be below 10.000 per cc. (cubic centimeter). A second sample he had taken went below 1,000 per cc. This is considered to be exceptionally low, as milk ordinarily drawn is well over



20,000 and often over 80,000 to 100,000 bacteria per cc. The bacterial count is of course greatly dependant upon the cleanliness of the stables, of the cows, and most certainly of the machine. In this connection Mr. Clarke remarked: "I know of one large dairy where care had to be taken of the bacterial count, and because of this they discarded the Mechanical Milker. On personal investigation I of this they discarded the Mechanical Milker. On personal investigation I found the reason to be hecause of the machines not being regularly and pro-perly cleanced. Water was drawn through the machine, but they were not taken down and thoroughly gone over, except once in two weeks, and they had even let it go as long as four weeks! The machines must be taken down every day, and they would be better to be cleaned twice a day.

(Continued on page 8.)

Say, did you was willing af

Issue Each W

Vol. XXX

cer have ex the dev have n

G. A. Hrer

Jack must le ever crossed through and little short in of all he surv calf barn, ar the Hill-Cres a little better not? Doesn them a con scratch their "I would ra

keep many co before making Countess. "I any other wor year later, es more milking arbole life before a I was n Now I am so will have at t

work." REC Did you ev every dairy fa Spot, and Sue that will tran boy is worthy don't care a name or not. from England, you, by your i make him an wire on your f

will be play ar I have about efficient help d enthuses the v sical fitness.

Issued Each Week

# FARMAND DAIRY RURAL HOME

Vol. XXXII.

FOR WEEK ENDING APRIL 10, 1913

No. 15

# The Developement of Jack and Tom

Thave experienced a wonderful satisfaction in the development of the "Hill-Crest Boys." I have never been criticized for lack of en-

thusiasm in the breeding of Holstein cattle. But to me the most interesting feature of the game as played on our little farm is the growth of

knowledge, of morality and of experience of my two boys, Jack and Tom.

"Jack" is our English boy, and to "Countess" and her young son, to "Count-

cs." at anyrate, Jack must look about the best that ever crossed the pond. Tom, Irish through and through although a little short in experience, is monarch of all he surveys when it comes to the calf barn, and prides himself 'that the Hill-Crest youngsters know him a little better than anyone else.' Why not? Doesn't he feed them, give them a comfortable bed as well, serateh their backs and brush them.

G. A. Brethen

"I would rather live with a farmer that doesn't keep many cows; I don't like milking," said Jack before making the acquaintanee of Hill-Crest and Countess. "I would rather milk these cows than any other work on the farm," is the way Jack, a year later, expresses himself after having done more milking than probably he had done in his phole life before. "I used to be thinking all the life in a said of the work of the work of the Now I am so anxious to see how much milk I will have at the scales that I never think of the work."

RECORDS MAKE PLAY OF WORK

Did you ever hear of a better reason why every dairy farmer should keep a milk record of Spot, and Sue, and Jessie and Lou? Any method that will transform farm work with play for the hoy is worthy of the kijohest commendation. I don't care a snap whether your boy bears your name or not. He is somebody's boy, whether from England, Scotland or the Emerald Isle. If you, by your farm methods, awaken his interest, make him an enthusiast, that boy will be a live wire on your farm. He will play the game, work will be play and dirudgery eliminated.

I have about arrived at this conclusion,—that efficient help depends more upon the spirit that enthuses the worker than even upon his physical fitness.

Say, did you ever try a 900-pound pony that was willing after an experience with a 1,500-

G. H. Brethen

pound "wont go?" Not how big, but how interested, "I never liked to milk so I never got very good at it." "Do you like milking?" enquired a visitor one evening of Tom. "Oh, I just love it, but I can't do it very well yet." replied Tom after a four months experience at Hill-



"I always give Piet a pat"

"I just love to milk Countess."

Crest. The one never became proficient as a milker. Why? Because the heart wasn't in it. Things done by halves are never done right.

"Oh, I just love it." It is not necessary to ask, will Tom learn to milk wel!. Most certainly. A love of the work and happiness from well doing always spells Success.

"But I can't do it very well yet." Note the modesty of the reply. Tom is learning, yet unlike altogether too many of the boys in a similar position, he doesn't know it all. He has got away above that. He know, that he doesn't know yet, the best mental position that anybody can start from in his search for knowledge. Tom will certainly learn.

"Money is not all there is to consider when engaged with a farmer," said Tom to me recently, "I would not eare to work on some farms I have seen. There doesn't seem much of a chance to improve oneself. I like to feel that I am doing things, making progress and growing in the know-ledge of the business." Almost looks as though the farmer would have to brace up, read more, and embrace every opportunity to know his job, if he can retain the services of boys of this type, the boy that wants to learn.

The fact that Jack and Tom both secured a very high standing and diploma in the recent Correspondence Course in Dairying, conducted by Canadian Farm, under direction of Prof. Dean, shows that they are not only learning, but have

learned some of the essential points of handling dairy cattle.

"I believe Countess can beat any of them," said Jack some time ago, and Jack saw that she did, We generally get just what we go after in this world. Twenty thousand pounds of milk in one year from a helfer in her second milking period, looks like quite a big undertaking for an English

by to go after. But Jack always gave her a pat and Countess responded with 20,686 lbs. in 12 months.

THEIR OWN; MARK YOU

'II don't think anybody can have
nicer calves than ours," said Tom
one day. Leaving aside the merits of
calves, note the claim of ownership of
both Jack and Tom. This is vital to
enthusiastic work.

"Of Love that says not mine and thine But ours, for ours is Thine and mine."

"I never was contented any place before, but this has been the happiest year of my life," said Jack at close of year. "If you want me I would like to try it some more." I wanted him. "After being three years in an office in London, filling silos, mixing cement, milking cows and feeding calves is a regular holiday to me." exclaimed Tom one day. "This is a claimed Tom one day."

claimed Tom one day. "This is the best week I have had yet, Sir." Would you, dear reader, like to know why Tom thought this way? Because he had started his first cow in official test and felt he was "doing things."

'I can truthfully say I have never spent a happier or better year on the farm,' G. A. Brethen, endorsed by Mrs. Brethen and the kiddies.

One day Jack, Tom and I were building a cement wall for our calf barn. Looking up from the wall where I was engaged putting in fillers for the next batch I saw Tom straighten up his five feet 11 inches and exclaim with all sincerity, "I wouldn't take \$500 and go back to my old job!" "Neither would I," said Jack.

### THE JOY OF MIXING CEMENT

Here was food for thought. Was there anything about mixing cement that was so fascinating that it would entice a by from his home and his friends and a lucrative position that is open to him if he cares to return? I never could see mixing cement just that way. Why did it appeal to Tom? He was looking after the calves. They were his special care and delight. Forgetting or ignoring any present; discomforts he was looking forward to the time when he would have a brighter, better place in which to display his pets and this thought made the work go light. Tom has visions.

(Continued on page 12)

### how Much it pays to feed

There is some doubt in the minds of a great many people who have bought young bulls and who are now out to develop them to the best possible advantage as to just how much feed and of what kind a young dairy bull should be given. Recently while looking over the Holstein cattle in Mr. James Rettie's herd we noted his young bull recently imported and from a cow, 119 lbs, milk in a day, 25,600 lbs. milk in one year, 3,000 lbs. in 30 days, and we thought "Our People" would like to know just what Mr. Rettie was feeding him. The bull is a strong individual, eight to 10 months old

To our enquiry Mr. Rettie replied that he was feeding the calf a mixture of oats and bran in equal parts by weight, and of this all he would eat readily, 9 lbs. a day, and, in addition, he was getting one and a half lbs. of oilcake meal a day. He was also being given clover hay and ensilage all that he would clean up readily.

In connection with raising cattle one should always bear in mind that a young animal is able to make much better use of its food and will increase in weight proportionately from its feed to a much greater extent than is possible for it to do as it becomes older. Hence the advisability of giving the youngsters every chance to do everything in the way of growing and developing of which they are capable.

### Summer Soiling with a Silo

A. D. Foster, Prince Edward Co., Ont.

I believe there is no cheaper feed for supplementing dry pastures than silage. I have been using it for two years and in the drought of 1911 we were able to keep our cows up to a good flow of milk by having silage to feed. Last year, although pastures were good, the greater part of the season, we fed ensilage all the time and believe we got a much steadier flow of milk than we would otherwise have done without the silo.

We find ensilage a great help when bringing the cows into the stable at milking time. We put the silage in the mangers, then let the cows in

and they get to their places quickly and remain quiet until they are fastened.

I would not advise building a silo more than 12 feet in diameter for a herd of 20 cows for summer feeding, as the silage molds more quickly on top in summer than in winter. silo 12 by 35 will give a liberal feed for 20 cows all summer. I would much rather get the ensilage out of the silo and put in the mangers than walk half a mile to bring the cows in for milking. We do not have to go after them since we begin feeding ensilage at milking time.

Get a good cow and feed her well and you will make money. Dairy products are a good price and sure to be better. Canada is a great and growing country and everybody wants milk and its products to sustain life.

### Crop Rotation

When crops are grown in rotation and proper tillage methods are follow-

ed, they wi'l suffer less from dry weather than when they are grown continuously. Crop rotation is usually of more importance than the methods of tillage used in this respect, although both are important. In most rotations more roughage is produced than can be disposed of by the work stock on the farm. Hence, more animals must be kept and more manure produced to return to the land to keep up the supply of organic matter. The organic matter in the soil may also be maintained by growing grasses and legumes.

### FARM AND DAIRY

A Unique Stable Cleaning Wrinkle

The latest labor-saving device that we have heard of for use in a dairy stable is the invention of an Eastern Ontario farmer, and is in use by him for cleaning out the manure without requiring fork, shovel, brush nor hand labor. He simply starts his engine, which drives the device and loads the manure on to a sleigh or manure spreader placed ready to receive it outside the



On the Best Farm of British Columbia

The farm of A. C. Wel's & Son, Sardis, B. C., is the winner of a cup donated to the best dairy farm in that province. The main barn, here litted with all modern stable equipment, lighted by electricity and all machinery run by the same power.

Pretty up-to-date isn't if?

While we have not seen this truly remarkable innovation it is said to work perfectly. One of the editors of Farm and Dairy was informed recently as to its working by that practical dairyman and authority, Mr. N. G. Somerville, manager for D. H. Burrell & Co., Brockville, Ont. who had inspected the device and witnessed its successful operation.

The contrivance is simply wire netting of fine mesh placed in the gutters and working over a big drum at one end of the stable from which it loads the manure on to the wagon, sleigh, or spreader placed in readiness to receive it. explaining it to us Mr. Somerville said: "The man is tickled to death with it. He simply starts his engine when he is ready to clean the



A Few of a Herd That Has Produced World Beaters In the pure bred Arrahire head of A. R. Turner and Sons, Wentworth Co. Ont., here illustrated, have been bred a good portion of the record-breeking Ayrahire cows of the world. In an adjoining artigle read Mr. Turner's explanation of his success as a dairyman.

stable, and in three or four minutes the manure is all cleaned out as slick as if one had used fork, shovel and brush. Then he reverses the engine and the netting is drawn back into place ready for the next time. The netting is 'bedded down' slightly with straw to absorb the liquids." .

This invention is the child of the brain of Mr. Geo. Roberts n, a young farmer of Lanark county, who is a arting into pure-bred Holstein breeding. He has a splendid big barn, which we are given to understand is modern in every respect.

### Why the Succeeded

"To what do you attribute your success in record making?" an editor of Farm and Dairy asked Mr. A. S. Turner, Ryckman's Corners, Ont. Mr. Turner and his son have bred several worldbeating Ayrshire cows. At present they have in their herd the world's champion two-year-old producer. With these facts in our mind we awaited Mr. Turner's reply with great interest.

"I do not believe I can tell you right off hand," replied Mr. Turner. "We have always been ve careful in the selection of our sires. We want them of good conformation, but, above all, we want them of good producing stock. And then we pay a great deal of attention to feeding. We do not feed any two cows alike. We do the feeding ourselves, either my son or I being on hand."

"What feeds do you like best," was asked. "Wet brewers' grains, barley and oat chop mixed and a little oil cake comprises the grain part of our ration. We do not believe in feeding heavily with concentrated feed.. We believe it has a tendency to injure the cattle. We feed as high as 12 quarts of brewers' grains a day. These grains are not watery, but just damp. We feed all cows that are milking well three times a day. We can't get good results from feeding twice a day. The extra milk gotten by feeding three times and milking three times will more than pay for the

extra labor involved." "At what times do you milk?"

"At five o'clock in the morning, at one o'clock in the afternoon and nine o'clock at night. You would be surprised at how much difference it makes in the yield to mi'k three times a day."

### The Golden Rule Labor Law

Nelson Monteith, Perth Co., Ont.

The touch-stone of success in farming is good managament of the labor problem. When I left college in 1890, I gave this problem careful consideration. I pondered on how I might keep permanent help on my farm. I made preparations then and there to erect a house on the

farm, and since then have had satisfactory help. One man stayed with me 12 years. The next man was with me 10 years, made his pile and retired. The man I now have with me has been on my farm five years and I don't know whether he or I will retire first.

My rule in dealing with hired men is summed up in the words of the Golden Rule, "Do unto others as you would have them do unto you." find that men treated according to the principle laid down in this rule will respond readily.

I am to follow dairying and stock farming exclusively as they demand attention chiefly in the winter months. Instead of following the beaten track in cropping, we may well look around and see if we can get other crops that require attention at other times - anything to distribute the work over the whole 12 months.

I do not like the way in which some men try to solve the labor problem-

by doing without help altogether. A man who is compelled to labor from early in the morning till late at night is too tired to take much pleasure out of life. On any good farm there is room for a good hired man's house and a garden attached thereto. This house, and Golden Rule management, is the only solution of the labor problem.

"Do unto others as you would" is one of the finest rules to apply to almost any problem that I know of.

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year. You become d the slow p to be m wnership equipped will find them in Y Farm, a award as Ontario i petitions and Dairy Provincial veer wee the dairy vinces of Riverside at once in it was pur Richardson score years side of the country, is and often said of me and Dairy' little of t men at fir honor then Matt. Riel managemer

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afford to sm adversity: · The River did crops, known fron bears little Matt. Richs prietor, Mr. years ago. acres that f very cheapl owners were to make the too good in depleted of grain. Th worth mentital was lim Riverside Fa to at least t did the origi

LIV It did not that grain f started into the milking

# The Story of a Prize-winning Dairy Farm

HE development of a prize winning dairy farm is not the work of a day or a year. Young men who oft times become discouraged because of the slow progress that they seem to be making, towards the wnership of a splendidly equipped and up-to-date farm will find much to encourage them in the story of Riverside Farm, a farm whi 'i won the award as best dairy farm in Ontario in Prize Farms Competitions conducted by Farm and Dairy, and in the Inter-Provincial Competition of last year was placed second among the dairy farms of the two provinces of Ontario and Quebec. Riverside Farm did not spring at once into prominence when

it was purchased by Mr. Matt.

Richardson more than two

score years ago. Before the farm was known outside of the little township of Seneca in Haldimand country, is a record of many years of painstaking and often discouraging toil. The same may be said of most of the other prize-winners in Farm and Dairy's Prize Farms Competitions. We hear little of the discouragements with which these men at first centended. We hear much of and honor them much for their success. And Mr. Matt. Richardson, now retired from the active management of the farm, as he drives his automangement of the farm, as he drives his automanagement of the farm as he drives his automanagement of the farm and the same management of the farm and the same management of the farm as he drives his automater.



Some Future Matrons of Riverside

A point on which Mr. J. W. Richardson lays particular stress in the development of heavy milking cows is the proper development of the dairy calves through the best of feed and attention. He recognizes that the calf of today is the cow of tomorrow. A bunch of this autile may be here seen.

He and the may be a defined from the property of the calf of today is the cow of tomorrow. A bunch of the autility of the calf of today is the cow of tomorrow. A bunch of the calf of

mobile over pleasant country roads, can also afford to smile as he looks back on the days of his adversity."

The Riverside Farm of to-day, with its splendid crops, fine buildings and a Holstein herd known from one end of Canada to the other. bears little resemblance to the farm that Mr. Matt. Richardson, the father of the present proprietor, Mr. J. W. Richardson, purchased over 45 years ago. Mr. Richardson secured the first 100 acres that forms a part of the present large farm very cheaply and on easy terms. The former owners were glad to sell. They had not been able to make the land pay the taxes. The soil, none too good in the first place, had been still further depleted of its fertility by constant cropping with grain. There were no buildings on the place worth mentioning, and the Mr. Richardsons' capital was limited to \$1,000. The net profits of Riverside Farm at the present time would amount to at least two or three times as much a year as did the original capital with which it was started. LIVE STOCK FOR THE SOIL'S SAKE

It did not take Mr. Richardson long to decide that grain farming was out of the question. He started into beef raising, also keeping an eye on the milking qualities of his cows, which were a

What Alfalfa and Cows Did for Riverside



"Holsteins Assumed First Place among the Money Makers"

mixture of pure-bred Shorthorns and Shorthorn grades. With the assistance of Mrs. Richardson they ran a home dairy and made cheese both winter and summer. For a number of years beef was very low in price, and the dairy end of the business kept the farm going. From time to time adjoining farms were offered for sale, most of them because their owners could not make a living thereon, and these too were added to Riverside Farm. The end of 15 years of hard work found Mr. Richardson and his son, who was then taking an active part in the management of the farm, with 30 to 40 cows of a beef strain, a lot of steers that were paying their way and very little more and a big mortgage. It was to reduce this mortgage that the Richardsons decided to specialize in their business. From their experience with their dairy Shorthorns they had decided that a good dairy cow was just as valuable as a steer for enriching the soil, would pay a good dividend over her keep for the season, and afterwards they would still have the cow with which to go on for eight or 10 years more.

To find where their profitable cow vere Mr. Richardson commenced to weigh the mu.' of each individual in his herd once or twice dur. • the season, and to test the milk for butter fat. "In this way," said Mr. Richardson to an editor of Farm and Dairy who visited his farm-along with the judges in the Inter-Provincial Farms Competion, "we found that a large number of our cows were kept at a loss. We concluded to get out of these cattle and to select a special breed of dairy cattle.

A START WITH PURE-BRED CATTLE

"We purchased a pure-bred Ho'stein bull and began weeding out and grading up our herd. We had found that several of our cows were producing from 3,000 to 4,000 lbs, of milk in a season. They would milk well for a month or two and then run short. These cows were generally beefy and 'good lookers,' the style much desired in our section at that time. Our aim was to have an 8,000pound cow. That first pure-bred sire showed us the way. When his daughters began to come in they were away and ahead better milkers than their dams had ever been. We decided that if Holstein grades were such good milkers, Holstein pure-breds would be better yet, and we decided to lay a foundation herd of pure-bred Holstein cattle. This we did by buying from reliable Canadian and American breeders."

From the very first the Holsteins assumed first place among the money-makers at Riverside

pure-bred cattle bring in more revenue than does the milk they produce. But the dairy herd does not go all of the way in explaining the splendid fertile soil that we now find on Riverside Farm, "Alfalfa," said Mr. Matt. Richardson, "has lifted us up from poverty. I secured my first alfalfa seed between 35 and 40 years ago, and found that it would grow, produce good crops and improve the soil, where no other crop would thrive. To the growing of alfalfa more than anything else do I attribute the start that I got on my poor soil and under discouraging conditions."

AN IDEAL DAIRY FARM
Riverside Farm is situated
about two miles from the village

of Caledonia and about 20 miles from the city of Hamilton. It comprises 370 acres of rolling land, varying in texture from a sandy loam to a clay loam. The farm is ideally fitted for dairying. Here and there through the farm are small patches of woodland that afford shade for the cattle, no matter on what part of the farm the pasture may be located. The farm is also well watered. Where it is necessary undercrains have been laid, but most of the farm is naturally well drained. Lanes through the farm are so planned that any field may be used as pasture, and the lanes too are always pestured, thus making good use of the grass on the lanes and keeping down weeds.

Mr. Richardson finds that his large farm cannot well be laid out in regular fields, and the rotation is varied to suit the shape of the field, and also to meet the varying conditions that are met with on different parts of the farm. The alfa'lfa fields, for instance, comprising about 70 acres on an average, are not plowed so long as they will yield good crops. To illustrate how the Richardsons manage we will mention one field situated near the buildings, that at the time of the judges' visit was in barley, seeded down to alfalfa. This had previously been in alfalfa, and



The Home on a Prize Winning Farm

"There is more in life than work and money." Note, in the beautiful home shown herewith, how J. W. Richar'son is living according to the truth of this axiom on his Haldimand County farm that won first place in Ontario in the Interportincial Dairy Parms Competition cend-cted by Farm and Dairy.

was overrun with quack grass. After the hay was cent the field was ploxed and thoroughly worked with the disk and drag harrows all through the hot summer weather. It was then seeded to fall wheat. Mr. Richardson secured an excellent crop of wheat, and as soon as possible after harvesting (Continued on page 37)





Coiling and Capping produces best quality Alfalfa Hay

# Alfalfa, the Greatest Dairy Roughage

"Do we consider it advisable to grow alfalfa for our cows? Well, we had 10 acres four years ago and bave 125 acres to-day. This 3 think, speaks for itself. It costs us only \$3.85 a ton to produce this richest and best of forage crops."- R. E. Gunn.

HERE is a place for alfalfa on every farm in this country on which we find live stock, even if that stock be only hens," once said F. D. Coburn, America's greatest advocate of alfalfa growing. When Mr. Coburn first started his great campaign for the popularization of alfalfa many years ago, we in Canada did not then realize that we were included. We regarded alfalfa almost as a tropical plant. Then came our own apostle of alfalfa growing, Mr. Henry Glendinning. He told us that he was growing alfalfa on his own farm in Ontario county, lots of it, and growing it successfully. Then we begin to find that here and there, in Ontario particularly, there were individual farmers who had been growing alfalfa successfully, but who, unlike Mr Glendinning, had not realized the immense value of the plant to the dairy farmer.

Milk is rich in protein. Alfalfa is rich in protein. Hence it is that alfalfa is a greater boom to the dairyman than to any other class of live stock farmer. Mr. Glendinning told his audiences at many an Institute meeting that he had cows giving 20 to 40 lbs. of milk a day all through the winter, and never receiving a pound of grain. Alfalfa would take the place of grain. At first, like all pioneers in any educational propaganda, he was not believed; but now a mass of statistics that prove the great feeding value of alfalfa form an incontrovertible argument in its favor. Compare the percentage of digestible nutrients in alfalfa and bran, the latter the standard grain feed for dairy cows:

CARBON PROTEIN. HYDRATES. FAT. Bran ....... 11.9 .... 42 .... 2.5 Alfalfa hay ... 11.7 .... 40.9 .... 1

It will be noticed that in composition alfalfa hay compares very favorably with bran. Alfalta, however, contains a higher percentage of crude fibre, which is very difficult of digestion, and hence it would hardly be safe to say that alfalfa. hay is equal to bran in feeding value, although it approaches bran very closely.

PROF. DAY SAYS ALFALFA EQUALS BRAN Prof. Geo. E. Day, at the Ontario Agricultural College, has conducted several accurate tests on the College dairy herd, comparing the feeding value of alfalfa and bran. Four groups of cows were experimented on, and the results may be taken as an accurate indication of the relative merits of these two foods. Summing up the results of his work, Prof. Day remarks: "In order to hold a large producer to her milk flow it would be necessary to feed a meal ration, but in the case of cows giving less than 40 lbs. of milk a day it is questionable whether the feeding of a meal ration would be found profitable when first class alfalfa hay is fed. The possibilities of alfalfa as a means of saving meal are very great."

Cows giving less than 40 lbs. of milk a day! That includes almost every cow in every dairy

herd in this country. Therefore, every dairyman in this country, if climatic conditions are at all favorable, should be growing alfalfa. If he does not grow alfalfa he must buy and feed bran or some similarly expensive food. Bran cos's \$19 to \$25 a ton, depending on situation. Alfalfa can be grown anywhere and put right in the barn for \$5 a ton, and many growers say that it costs them even less than that. Can we afford to pay \$20 for bran when we can grow its equivalent for \$5? And yet it is estimated that only 33 per cent of the dairy farmers of Ontario are growing alfalfa, and in the other provinces the percentage is still lower. Read what some of our most successful dairymen, the men who are right



Successful Where Other Crops Won't Grow 

up on top of their profession, think of alfalfa. They grow it themselves and hence talk from ex-

25 YEARS' EXPERIENCE

"We have grown alfal'a more or less extensively for 25 years," writes H. R. Nixon, Brant Co., Ont. "We did not consider that it made very good hay years ago, as we did not cut it early enough, and the leaves fell off in curing and the stalks were hard and dry. We used it in those days chiefly for hog pasture, for which purpose it is most valuable. We later learned to cut it early, as soon as a few blossoms appeared, and found it made hay vastly superior to any other we could grow. It also makes excellent pasture,

but will not stand too close cropping by stock. We never allow a hoof of any kind to pasture on the fields we cut for hay.

"We cut three crops per annum and get an average of about four to five tons per acre in the three cuttings in favorable seasons. grow and store it for \$3.50 a ton. While we consider it the best hay that can be grown for dairy cows, we do not believe it equal in feeding value to bran, pound for pound, as some do. We sow with a nurse crop of barley, using 20 pounds seed an acre and one bushel barley. We allow nothing to pasture on it after harvest or any other time if we wish to retain a good stand of plants. Tramping of stock certainly will thin it out.

"Alfalfa is harder to cure than red clover. We mow in afternoon and run over it twice next forenoon with the tedder and rake and coil in afternoon. It stands in coil next day, and if the weather is fine it may be shaken up the third day in the forenoon and drawn in in the afternoon. Any one who keeps cows should grow aifalfa. We have 30 acres seeded now."

AS A PASTURB CROP

"I put the greatest value on alfalfa as a pasture crop," writes Mr. F. Birdsall, of Peterboro Co., Ont. Mr. Birdsall has 30 years' experience in alfalfa growing to back up his contention that a'falfa can be successfully pastured. "If a man has a large acreage I would pasture part of the first crop and cut a second crop later on when the weather is more favorable. Alfalfa costs me an acre about the same as red clover. For pasture it is infinitely more valuable than clover as it has a quicker growth and stays in the ground

"I sow on well prepared ground, preferably forlowing roots, seeding 15 to 20 lbs. of alfalfa and a bushel of barley for cover crop. I give a light dressing of barnyard manure late in the fall. As early in the spring as possible I run over the field with a horse rake and follow with a roller. cut when the crop is about one-third in bloom."

EXPERIENCE OF A PRIZE-WINNER "I have been growing alfalfa hay for eight years," writes S. A. Northcott, Ontario Co., Ont., whose farm stood high in the Inter-Provincial Prize Farms Competition conducted by Farm and Dairy. "In these years my alfalfa has averaged more tons to the acre than has red clover or timothy, and has been produced at \$1 a ton less. As a food for dairy cows, it works in well with corn ensilage. When feeding the alfalfa hay in the stable in conjunction with ensilage, I find that one ton of alfalfa hay gives me about the same results as 1,000 lbs. of mixed grain for milk production. In the regular rations I feed my cows all the corn ensilage and alfalfa hay they will eat, with mixed grain and cotton seed or oil meal added, according to the amount of milk given by each cow.

(Continued on page 18)

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# A Bigger and Better Crop of Corn.

"Corn will grow in practically every farming section in Cauada. Corn provides more roughage to the acre than any other crop. It is easy to grow, easy to keep, is palatable and appetizing. Every dairyman should be a corn raiser."—3. 16. Grisdale.

ORN is the greatest crop that the dairy farmer can grow." This statement is an axiom. An axiom is an expression of an obvious truth; for instance, that if two straight lines are both the same length as another straight line they are equal with one another. That corn is the greatest crop is as self-evident as the truth of the geometric proposition that we have just enunciated. It will produce more digestible food nutrients to the acre than will any other crop grown in Canada. It enables the dairyman to solve the great problem of how to furnish an abundant and cheap supply of succulent food for both the winter and summer feeding of dairy or beef cattle. When properly grown and well preserved as ensilage it is the equal of or superior to roots in feeding value and palatability. It can be grown more cheaply than roots per acre, and on the average will yield twice as much actual food as will roots. It has merits that far surpass in value the points of excellence of the see man's newest and much advertised novelty. It has been with us so long, however, that we have ceased to regard it as a remarkable plant. We just take it for granted.

Farmers are coming to appreciate the value of this great crop. In 1910, in Ontario alone, 327,627 acres were devoted to corn for ensilage purposes. In 1911 the area increased to 335,935 acres, and in 1912 we have a further jump to 377,982 acres of corn for the silo, an increase of over 13 per cent in two years. From all indications there will be a still greater area devoted to silage corn in 1913. Corn, however, is a much abused crop. We find that in 1912 the average crop in Ontario was only 10.5 tons to the acre. With intelligent cultivation this yield might well be incréased by 50 per cent, and individual farmers here and there are growing more than twice as much on acre. R. R. Ness, Howick, Que., told an editor of Farm and Dairy who visited him last summer, that his crop in the previous year



A Planting System Advisable on Dirty Land---In Hills

had averaged about 25 tons of silage to the acre, and this on an area of over 40 acres. Down in Oxford Co., Ont., we have frequently seen fields that ran over 20 tons to the acre, and an examination of official reports from the Ontario Agricultural College show that their yields from good varieties run from 16 to 25 tons. And yet the average yield in the province is only a little over 10 tons.

BEWARE OF SURFACE WATER

Corn will grow on any kind of soil provided there is good drainage. Under drainage is not absolutely necessary. We have seen splendid crops growing on the heavy low-lying lands of the Characauguay District in Quebec, where underdrains are not known. The ditches and water furrows were kept open all summer. The soil best adapted to the crop is a light loam with a warm bottom. The chief requisite is that the soil be provided with an abundance of humus. For this reason corn should follow clover hay, pasture or meadow. The manure also should be applied at this stage of the rotation. A mixture of one part horse manure to three parts cattle manure applied green at the rate of 12 or 15 tons an acre may be expected to give very good results. Between the rotting sod and the farmyard manure there will then be a bountiful supply of humus.

We have never yet heard a successful corn grower advocating orn after grain stubble. All of them follow after sod. An exception is the method followed by R. E. Gunn at Beaverton, who grows about 50 acres of corn each year, and always on the same field. After the last cultivation Mr. Gunn sows clover seed between the corn rows and gets a most luxuriant growth that fall and in the early part of the next spring. This green crop, along with a dressing of barnyard manure, is then ployed down, affording a great supply of humus, and Mr. Gunn's crops respond accordingly.

Where the corn field is light in texture we

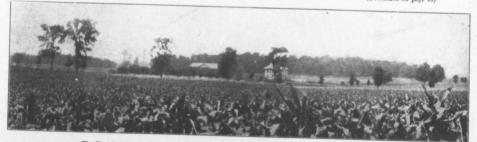
would prefer to plow in the spring, turning a very shallow furrow in order that the plant food may be kept near the surface. Mr. Miles Hartley, one of the most successful corn growers in Oxford county, explains the merits of spring plowing in this way: Corn in its origin is a tropical plant. The manure and sod on being turned over ferments more rapidly than fall plowed sod, and thus produces more bottom heat, giving the young corn plants a good send off. On clay land, however, it is generally well to plow in the autumn, turning a well set-up moderately deep furrow of five to six inches.

One of the common mistakes made by corn growers is to assume that because corn can be cultivated when it is growing that the seed bed does not need to be given the same care as in the case of small grains. The land should be worked down until it is smooth and mellow and then firmed with a roller to provide a solid seed bed. The best implement that we know of for working corn land is the double cut-away disk. In some cases it may be necessary to disk and roll several times in order to get the right seed bed, but in no case should corn be planted on half prepared land. Better be a few days late in seeding, as it is the initial work that determines the success of the crop.

VARIETIES FOR ALL CLIMATES

Now comes the needing. What variety shall we now? This depends largely on the district. J. H. Grisdale, Dominion Agriculturist and Superintendent of Experimental Farms, recommends that for the Maritime provinces, for those parts of Quebec north of Montreal and St. Hyacinthe and east of Three Rivers and for northern Ontario and the Western provinces, that the flint varieties be grown most extensively. Some of the best of these early varieties are Longfellow, Compton's Early, Angei of Midnight, North Dakota, White Flint and Sandford. In some of these districts

(Continued on page 16)



The First Stage in Profitable Milk Production. A Corn Field on the Farm of Jas. Dallas, Huron Co., Ont.

There is something about a growing field of corn that brings satisfaction to the dairymen's heart. In the sea of waving leaves he sees the promise of plentifications of the corner of all him, the corner of the little of the crops field him, the corner of the little of the crops field him, the corner of the little of the crops field him, the corner of the little of the crops field of the crops field him, the corner of the little of the crops field of the c



Own your car-don't let it own you. A new Mr. Dooley rises to remark that there are only two kinds of cars-"the Fords and the can't affords." want a Ford when the season is on. Then buy it to day.

There are more than 220,000 Fords on the world's highways-the best possible testimony to their unexcelled worth, Prices-runabout \$675-touring car \$750 -town car \$1000-with all equipment, f.o.b. Walkerville, Ont. Get particulars from Ford Motor Company of Canada, Limited, Walkerville, Ontario, Canada,



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**7**OU never saw a down-at-the-heels farmer, or his wife, busy with a paint brush. It takes pride in your possessions to make you care what they look like. But it takes a knowledge of values to lead you—even with all the pride you may have—to the sure selection of the right paint.



are right in every way. We've been making them for 50 years. We've kept every good old-fashioned quality and added every new thing that modern paint science has proved valuable.

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Any or all of them at the best dealer in your town-write for these Valuable Books, free. Attractive Homes-and Guide to Farm Paint.

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Farmers on Banking

Representatives of the farmer had their say before the Banking Com-mittee of the House of Commons at Ottawa on Thursday last when some of the shady methods of Canadian banks were properly ventilated by rebanks were properly ventilated by representatives of the agricultural
press. The most startling charge of
all was that made by Me.
Advocate, when in supporting thersgument for a more efficient audit of
banks, Mr. McArthur instanced one
case where a general manager with
the knowledge and connivance of a
director had insisted on a borrower
in urgent need of a very large loan,
making them a present of some tens
of thousands of stock in his business
as a condition of the loan. Mr. McArthur promised to acquaints the Minas a condition of the loan, Mr. Mc-Arthur promised to acquaint the Min-lance of Finance privately with the space of Finance privately with the space of Finance privately with the space of Finance privately with the Mr. George Waldron, speaking for the Farmers' Sun, of Toronto, took issue with our whole banking, sys-tem. He favoured more purely space tem. He favoured more purely space tem.

banks as against so many branches of the large institutions.

How Mr. Pat Clarke Solved His Biggest Problem in Dairying

(Continued from page 2b) "Although the manufacturers re-commend the use of chloride of lime, and they have a purpose in recommending it, for they want to keep down the bacterial count, I have discontinued using it since I find it fiavors the milk, and there is objection havors the milk, and there is objection to the smell and taint from the chloride of lime. I keep the rubber tubes in lime water instead. If the machine is properly c'eaned the lime water is strong enough. And if it is not properly cleansed of the lime water, and is simply rinsed, then the lime water will not hurt anything and there is no after trouble as with the chloride of lime."

As suggested earlier in this article it took a great deal of persuasion to get Mr. Clarke to adopt the Mechanical Milker. How sorely he was in straits and required this machine to solve the serious problem confronting him, may be appreciated from the fact that Mr. Clarke ordinarily kept 12 men; six of these he was obliged to discharge at one time on account of their disgraceful conduct while under the influence of liquor. With these six men sent off the farm at one time, and being unable to secure help, close as he was to Ottawa, and this being in the summer time in the midst haying, there were several weeks, dur-ing which he was not able to have a team hooked up, and as a consequence many acres of his hay had to be al-lowed to rot in the field and a considerable acreage of oats he was not able to harvest. It should not require any such a situation as the foregoing to convince other dairymen, who can use Mechanical milkers, that they should instal the machines, for now they have the benefit of Mr. Clarke's they have the benefit of Mr. Clarke's experience and of a great number of other progressive dairymen who have installed Mechanical milking outfits and from whom advice can be had as to the great success of Mechanical

to the great success of milking.

One of these latter, and who is well satisfied with the B-L-K Mechanical Milkers, is Mr. L. D. Slater, whose farm is not very for from Mr. Clarke's. Mr. S'later had been obliged to make a trin to California on ac-Clarke's. Mr. Slater had been obliged to make a trip to California on ac-count of his health and was not at home at the time of our visit. We inspected his stable, saw his Mechan-ical Milkers, and talked with his foreman in charge. Nothing but praise was given by the foreman in favor of Mechanical milking. Some 70 head of cattle were in the stable and 50 of the cows were milking. Mr.

Slater is apparently well satisfied with the machines, which were saving him two men over what would other-wise be required. Four units capable wise be required. Four units capable of milking eight cows at a time are being used in this stable. The milkers are washed thoroughly each morning, and water is run through them to

### A Paper for Beekeepers

A Paper for Beckeepers
The officers of the function Rekeepers' Association have recently
completed arrandements with the
publishers of The Canadian Horticulturist, a comparation paper of
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Year.

All who are interested in bee-keeping and fruit growing should subscribe for this paper. Subscribers of Farm and Dairy may obtain The Canadian Horticulturist and Beekeepe with Farm and Dairy for 5150 a year.

cleanse them at night. The cows had taken kindly to the machines. There were no sore teats when the machine was being used, and had the manufacturers themselves been giving us the testimony it could not have been more in favor of Mechanical milking.—

### Killing Animal Lice

The killing of lice on animals is to of then neglected. It is a very common thing, for instance, for colts and calves and sheep to be lousy. They rub and scratch and bite and itch and suffer, wasting much of their energy which should much of their energy which should need to be used for better purposes. It certainly might better go into growth and development than into fighting lice, Joe Wing of The Breeders' Galler, Joe Wing of The Breeders' Galler, Joe Wing of The Breeders' Galler, Joe Wing of The Joe Carlot on the same pens, in other words, to make a pens, in the pens, but with a little of the same and The killing of lice on animals is to keep your animals free from vermin. Unaided they cannot get rid of
of these pests. But with a little
well directed effort on your part you
can free them. Perhaps the most
approved methor energy from the most
stockmen and farmers generally is to
use Zenoleum. That famous little
booklet, "Veterinary Adviser," contains sixty four pages and is published by the manufacturers of Zenoleum, and we want every reader of
leum, and we want every reader of
this paper to have a copy of it. It leum, and we want every reader of this paper to have a copy of it. It won't cost you anything more than a postage stamp to send for it, and if you mention this paper it will bring the book all the quicker. It is a good little book for animal owners to consult on many other matters, besides ridding their stock of lice. All you have to do to gut the book All you have to do to get the book is to let the publishers know you want it. Write quickly to the Zenner Disinfectant Company, 308 E. Sandwich St. Windsor, Ont., and they will do the rest, and you won't

### Around the World via "Empress of Asia"

of Asia"

The "Empress of Asia" will leave
Liverpool June 14, calling at Madeira,
Cape Town, Durban, Colombo, Singapore and Hong Kong, arriving Vanapore and Hong Kong, arriving Vancuver August 30th. Vessel remains
14 days at Hong Kong. "Rate for
entire crules, \$63s.16." Exclusive of
maintenance between arrival in England and departure of "Empress of
Asia," and stop over at Hong Kong.
Particulars from Canadian Pacific
Agents or write M. G. Murphy, District Passenger Agent, Toronto.

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Even pure-b so rap of one the pa cord is out the Mason' old. h dian re ter in three-v Record also to ter-fat ing tha her clas that M stein he nions.

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gone in She I 15.26 I H cent but iunior to parable Rifton 1 world's 14.797 ever, wa calving. days al Pietertje lbs, of m will thus heifer h other he record u ondition ed in the the matt the only after cal Ardelia i Kol Mu with 19, made 29

freshenin ior three In Recor ance Ard 16,704.6 and 668.3 1.8 lbs. r Jennie B by, the ately Ard few days ing to qu seven-day Mason 1 spectors certify to ness of t



### The Story of How a Doung Canadian Thas Acheived Sudden Fame

Through this Record Breaking Dairy Cattle



WHAT do you think of this for a made-in-Canada world's redictor of A junior two-year-old heirer, Canadian-bred and Canadian-brounded like supervision the always intended to be a farmer, produced 19.07 [bs. of butter in one had been considered supervision of the always intended to be a farmer, and when his father gave him a hance to attend the Ontario Agriculties of the supervision of the supervision of the work of the supervision of the supervision of the supervision of the work of Even in this age when breeders of pure-bred dairy cattle are improving the producing ability of their cattle so rapidly, 'that the announcement of one world's record is hardly dry on of one works a record is narray any on the paper before another greater re-cord is ready to be heralded through-out the land," this record is altogeth-er phenomenal. Another of Mr. er phenomenal. Another of Mr. Mason's Holsteins, a senior three-year-old, has just established two Canadian records, she producing more butter in one year than any other senior three-year-old entered in the Canadian Record of Performance test, and has the producing the performance test, and has the beginning the beginning and butter to be regulix mare milk and butter. also to her credit more milk and butter-fat made eight months after calvter-rat made eight months after caiving than any other Canadian cow in her class. Hearing of the great things that Mr. Mason is doing with his Holstein herd, one of the editors of Farmand Dairy recently visited his Norfolk country farm, and inspected his chamcounty farm and inspected his cham-

We were most interested in junior two-year-old, Ardelia De Kol Tensen. Mr. Mason started her on her Canadian record-making seven-day test just 357 days after entering her yearly test when she was five months gone in calf.

She produced 304.3 lbs. of milk, 15.26 lbs. of fat and 19.07 lbs. of butter. Her milk tested up to five per cent butter fat and over. The only cent butter fat and over. The only junior two-year-old with a record comparable with this one is Woodcrest Ritton Lassie, holder of the previous world's record of 38.3 Pls. of milk and 14.797 lbs. of fat. This record, however, was made just 250 days after calving. The highest record made by a junior three-year-old 350 or more days after caiving is that of Miss Priestrie Johanna Da Kol with 296.1 lbs. of milk and 10.415 lbs. of fat. It will thus be seen that Mr. Mason's will thus be seen that Mr. Mason's The only will thus be seen that Mr. Mason's heifer has produced almost 50 per cent nore milk and fat than has any 50 per other heifer in her class, making her

record under the same conditions, and reported in the last American year book. Outside of the mature cow classes the only eight months after calving record to compare with that of Ardelia is that of De Kol Mutual Countess. with 19.2 lbs. of fat, made 295 days after freshening in the junior three-year-old class. In Record of Perform ance Ardelia produced 16,704.6 lbs. of milk and 668.3 lbs. of fat, or 1.8 lbs. more fat than Jennie Bonerges Orms-by, the champion of the class. Unfortun-ately Ardelia will be a few days late in calving to qualify. For her ng to quanty. For her seven-day records Mr. Mason had two in-spectors on hand to certify to the correct-ness of the great re-

chance to attend the Untario Agricul-tural College, he was quick to avail himself of the opportunity. He spent two years at the O.A.C., Guelph, studying the science of agriculture, which he has since been putting into which he has since been putting into practice. On leaving college in 1902 he immediately assumed full charge of the home farm, comprising 150 acres of the best soil in Norfolk.

deavored to maintain the size and constitution of his animals through good feeding and judicious breeding. "I like to get my heifers well grown at one years old," he remarked to our editor. "What can you expect of our editor. "What can you expect of a heifer that is only a runt at 12 months?" To maintain this size Mr. Mason has fed liberally and avoided

A Grand, Good Cow and Champion Producer in Her Class

In this cow, "Daisy Tensen Posch," we have embodied the ideals of her owns in this cow, "Daisy Tensen Posch," we have embodied the ideals of her owns the property of the prop

Mr. Mason always had good dairy early breeding, there being no senior Mr. Mason always had good dairy cows, and on three occasions his herd of grade Holsteins stood high in the Herds competitions conducted by the Western Ontario Dairymen's Association. In the same district were several pure-bred Holsteins, and these Mr. Mason soon saw were better producers than the best of grades. An uncle of his hot we had the several pure-bred his hot we have the several pure-bred holsteins, and these his hot we have the several pure-bred holsteins. his had two big, strong cows of the Tensen family that were remarkable milkers. They looked so good to Mr.

yearling milkers in his herd except by yearling milkers in his herd except by accident. As a result his cows are all great, large animals, splendidly constitutioned, great feeders and as the records that they are making prove, they are milkers that are hard to beat. Mr. Mason has for years had evidence that his ideas were the state of the interest of the state of his income. The state of the never knew just what phe

producers he had until he started into official test work a year ago. NO PREPARATION FOR TEST

Mason might not have been in Air. Mason might not have been in official test work yet had not one of his neighbors wished to enter some cows in the Record of Performance and induced his friend Mason to go and induced his friend mason to go in with him in order that there would be enough cows in the neighborhood to make it worth the while of an inspect-or to go to Tyrrell. He was not preor to go to Tyrrell. He was not pre-pared for record making. His two-year-old heifer was only in fair shape and his senior three-year-old, Daisy Tensen Posch, had been dry only three weeks before freshening. She calved on March 20th, 1912, was started in on March 2011, 1912, was started in her yearly test and dropped the next calf in just 10 days over the 12 months. In addition, she was very thin. Mr. Mason soon found, how-ever, that in these two cows he had

ever, that in these two cows he had something worthy of the best atten-tion, and he did his best from then on through judicious and careful man-agement to make up for the handicap under which they started. Daisy closed her year with 10.704.6 bis, of milk and 668.3 bis, of fat to her credit. This gives her a margin of 3.394.8 bis of milk over Jennie Bouergee Ormsby, but she is some-tic the greatest milk recollection credits is the greatest milk recollection credits is the greatest milk production credit-ed to any senior three-year-old in ed to any senior three-year-old in Canada, and only two cows in America recorded in 1911 and 1912 in her class have made more milk. Ten months after calving Mr. Mason gave her a seven-day test, in which she produced 247,9 lbs. of milk and 8.68 lbs. of fat, equivalent to 10.84 lbs. of butter. The highest senior three-year-old record reported in the last Canadian year book is 7.6 lbs. of fat, Mr. Mason's heifer being champion by a Mason's helfer being champion by a good margin. Her test, however, will not be reported as Mr. Mason did not realize in time what a grand animal he had, and she was not subjected to an R. O. M. test in the first part of her lactation period. As will be seen by the illustration, we have a seen by the illustration on this page, she is a grand big cow, and in splendid shape to make a still greater record in her next lactation period.

A COMING CHAMPION?

Another animal in Mr. Mason's herd of which we will hear in the near future is the two-year-old heifer, Nina Tensen, illustrated on this page. She weighs 1,410 lbs., and is in splendid condition for testing. She is closely related to Daisy, and on the sire's side is a sister to Ard-elia. She is the most promising prospect for record making that we have seen in a long time. Mr. Mason's herd is a small one at present, consisting of 11 milk cows and some young stock. Two of Two of the cows are half-sisters the cows are half-sisters to his world's champion heifer, and almost all of them are bred along the same lines. The pick among the younger stock is Daisy's heifer, a yearling, looking as big as a two-year old. year-old. To match his



Typical Representatives of a Herd that has Achieved Sudden Fame

For years W. E. Mason, Tyrrell, Out, has been keeping big, strongly constituted cows and great milkers but did not start official test work until this last year when he entered to oblige a neighbor. Result, two Canadian and one world's record smashed. The helfr seen the control of the contr

high quality females and secure stock up to his ideals in conformation, Evergreen's Teake, a son of Ever-

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A twentieth century wonder. Hatches good, strong, healthy chicks at a very little cost. Made of all metal; is fire proof; casily run.

FIFTY EGG SIZE, \$7.00

Water and Hot Air Incubators; Brooders ; Bone Mills ; Poultry

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BLUE ANDALUSIANS AND ANCONAS— Eggs from the heaviest laying strains at \$1.50 per 15. W. E. Pakenham, Nor-wood, Ont.

BUY WHITE ORPINGTON and R.C.W. Leghora Eggs for hatching, from prize winners. Price, \$1.50 per 15. Also Leghora Cockserg. Geo. J. Northcett, "Clarum Brae," Solina, Ont.

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EGGS AND POULTRY FOR SALE 

Evergreen's Teake, a son' of Ever-green March, has recently been added to the herd. This sire possesses the great constitution and substance that Mr. Mason demands that his stock must have. His dam, Evergreen March, and her sire, Morcedes Teake, were both large animals and of show f. o. b. Toronto conformation. Evergreen March has the following records: 110.8 lbs. of milk in one day; 720.5 lbs. in seven days; 2,988 lbs. in 30 days and the great record of 26,107.5 lbs. of milk conformation. We manufacture both Hot in one year. Notice also her great butter records of 29.45 lbs, in seven days, 122.25 lbs. in 30 days and 1,128 Also Poultry Foods, Nursery Chick Food, Egg Mash, Grit, Shell, Granulated Charcoal -- in a word everything needed by Poultrymen. days, 122,20 108, 10 30 days and 142-ble, in 365 days. The sire of Mr. Mason's bull has tested daughters with records as high as 19,18 lbs. of butter in seven days at four years old. Evergreen's Teake himself is a SEND FOR CATALOGUE sire of daughters of merit, one sire of daughters of mernt, one or them, Agnes Evergreen, producing 389.3 lbs. of milk and 17.83 lbs. of butter in seven days as a two-year-old. At three years old she produced 500, lbs. of milk and 21.34 lbs. of butter. The point that Mr. Mason most likes about his new bull is that be combines, along with a producing ancestry, ancestry that are also most desiration. AND BROODERS COMBINED able in conformation, substance and constitution.

constitution.

These records which Mr. Mason has made did not just happen. He has worked consistently to improve his herd from the standpoints of conformation, constitution and the profoundation of high-testing milk. He is a liberal and skilled feeder, and his liberal and skilled feeder, and his great records are but natural results Mason himself is young (just entering Mason himself is young (just entering his thirties), energetic and enthusias-tic. He brings to bear on the record work, which he is now entering in work, which he is now entering in earnest, not only a splendid practical experience, but a knowledge of scien-tific principles gained in his college course. "You can't say too much about the advantages of a couple of about the advantages of a couple of about the advantages of a couple of years in an agricultural college," remarked Mr. Mason. "I believe that the two years that I spent at Guelph placed me just 10 years ahead of where I would have been with the farm training only." Another remark that Mr. Mason dropped that shows the kind of man he is, was, "I like to read. A man can't read too much. When reading oce is always getting new ideas." This marks the student.

When reading oce is always getting new ideas." This marks the student.

We would like to limore of our wisit to Mr. Mason of his splendid home with all the special consists of the consists o in Holstein circles; indeed he has al-ready arrived! With his fine enready arrived. With his one en-thusiasm, his ability as a student to study out all of the problems that come his way and with his correct ideals of Holstein type, he has in him the things that make for success. will pay you to keep in touch with him and watch for the greater things you may hear from him and the stock he may have for sale.—F. E. E.

The Dairy Commissioner, Mr. J. A. Ruddick, announces that Mr. H. W. Coleman, who has been recorder for the Lanark Dairy Record Centre durthe Lanark Dairy Record Centre dur-ing the past two years, has been pro-moted to the position of supervisor of cow testing for the Province of On-tario. Mr. Coleman has shown spe-cial aptitude for this kind of work, and has made a success of the Record Centre in Lanark. Mr. Joseph Bur-gess, who has been supervisor in On-tario for several years will be tario for several years, will be required hereafter to give more of his time to cold storage work.



### A Farmer's Spramotor

The illustration shows a barrel Spramotor Outfit, most suitable for farmers with smell orchards, up to four or five acres.

Your or ne acres.

With this Spramotor you can keep your apples absolutely clean from scab or spots; keep them free from worms, and make 95 per cent of them first class and saleable fruit. It will be worth your while to spray this year. Remember how badly infested the fruit was last year, and how you could not sell it at a good price because of spots and worms.

and worms. We have gotten out at big expense a hand book, telling you all about the about the area of the area of

### A Gold Mine on Your Farm

Write us for it. Sent to you free on request. It describes also the Spramotors and accessories you will need.

will need.

Spramotors are recognized the
world over as the standard and
always-satisfactory spraying outits. They are made by the Spramotor Co., which is the only Canamotor for him in their line to have an
Am time in their line to have an
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Am time in the line to have been catablished for 12 pears.

They is a Committee of 12 pears.

There is a Spramotor made specifically o meet your needs; we will tell you about it when we know what you grow,

when we know wan you grow.

Write us to-night for your copy
of "A Gold Mine on Your Farm."
It is bound in convenient pocket
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practical value to you. Address

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### \$5,000,000.00 FOR PEERLESS WAY POULTRYMEN

Into the pookets of the users of The Peerless Way last year went five million dollars made from the poultry these people raised. Yet chickens are scarce in Canada and eggs are the scarcest of all food commodities. That is positively the fact.

To-day there are not enough Canadian CHICKENS or EGGS to go around. Thousands of chickens and hundreds of thousands of dozens of eggs are being shipped into Canada from the United States and other countries to help meet the demand.

Yet there is a shortage! Eggs are commanding a tremendous price—chickens are

Now is the time to take advantage of this situation and make money out of it yourself. You can raise and sell 600 chickens this next year, and you will find a quick and sure market for every one of them. You can get the top notch poice for all the hundreds of dozens of eggs that your poultry ley.

Let us tell you how!

Poultry raising is the best business for any farmer, any farmer's wife or farmer's child. The poultry crop is the one crop that never fails. It pays better for the time and money invested; the profit is surest; it isn's overcrowded and never will be.

Our book "When Poultry Pays," will show you. Let us send it to you. It is interesting; it is instructive, and it contains the proof.

You need this book. It will be mailed free. A post card will bring it.

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### Poultry Education Abroad

Prof. W. R. Graham, O.A.C., Guelph, Ont

Frof. W. R. Grahom, O.A.C., Guelph,
In studyin Ont.
In studyin Ont.
In studyin Ont.
In studyin Ont.
In the Study of the Old Country
last summer, I found that they were
last study of the Old Country
most thorough. Education, insofar
as it deals with agriculture, is practically the same in system in the
three countries. They have district
representatives just as we have in
Ontario, only they are scattered over
smaller areas and hence cover their
territory more frequently.
To assist these district representatives in their efforts to encourage
farmors to go in for better stock they
have breeding stations where a farmhave breeding stations where a farmer can go to get a dozen of hatching

POULTRY YARD time in the afternoon or before going to roost. Not being inclined to fill up during the early part of the day in the reason why she can be successfully fed all kinds of grain and fed from a hopper. THE HOPPER MIXTURE

"Here is the hopper mixture: 300 ibs. bran (local prelayed to western), 100 ibs. from the control of the contro

"During the winter monens a stice cabbage and mangels on nails on the wall at just the right height for the hens to peck without having to over-reach to get at it. As soon as the grass has enough growth in the spring grass has enough growth in the spring I run a lawn mower over it, with car-rier attached, and feed the hens all of the clippings they will eat. I would not recommend the above meth-



Pure Breds All Round

This illustration, from a photo taken by II. Gross, Peterboro Co., Ont., in his own poultry yard, shows the interest that his children take in the poultry that are winning first places at such leading poultry always as those held in connection with our Winter Fairs at Guelph and Ottawa.

eggs for a dosen of his own eggs and 25 cents. Where there are no breeding stations they select a good farmer and supply him with a pure-bred flock on the understanding that he will supply other farmers with hatching eggs at a low price.

What style and size of house want.

### How Mr. Marrison Feeds

To keep 60 Leghorn pullets in a pen 14 feet square and allowing them no exercise except what they got in the exercise except what they got in the pen and at the same time securing a splendid egg yield, is the feat that has been performed by Mr. R. A. Marrison, Cataraqui, Ont., and described by him in the Poultry Number of Farm and Dairy. So great was the interest aroused by Mr. Marrison's novel methods, that Farm and Dairy has received several letters requesting more information, especially about the feeding of these birds. Mr. Marrison replies to these enquiries as follows:

"That pen of 60 S. C. W. Leghorn "That pen of 60 S. C. W. Leghorn hens were fed from a hopper, with the following different grains: Wheat (milling), cont (heavy, 47 lbs. to the bushel), buckwheat, coarse beef scrap (best quality), granulated dry hone, crushed oyster shell and grit; also four handfuls of millet stattered on the floor every forenoon. Each feed occupied a seawest-coarse.

scattered on the floor every forencen. Each feed occupied a separate compartment in the hopper.

"The following mixture is moistened with hot water, and fed in troughs early every morning. Enough of this is given to last until about roosting time. Some say—give the heas only what they will eat up clean in 20 minutes. That plan would not give an inute. That plan would not give a chance as the labor much of a chance as the world with a within clined to fall the crops with anythin clined to fall. her crop with anything until some

What style and size of house would you advise for 100 hens? Would a hall-way be advisable?—J. C. G., Prince Co., P. E. I.

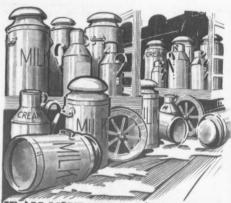
draughts on the fowl.

### Potatoes as Green Food

Would it be advisable to feed poultry, specially turkers, potatoes to take the lace of green feed?—G. A., Hastings Co.,

Potatoes fed raw make a most de Posatoes red raw make a most de-sirable green food for poultry. It would be advisable, however, to first would be advisable, nowever, to first remove the skins, which are not ap-preciated by the fowl. This operation is comparatively easy where the pota-toes are first steamed and then

is it a Record?-On March 6th I set 117 eggs under nine hens, and on March 27th I took off 105 live chick-ens. Who can beat that?—A. A. Farewell, Oshawa.



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### The Development of Jack and Tom

(Continued from page 3)

Continued from page 3)
There is nothing particularly easy or enticing to the average man in handling a cow for 12 months in offihandling a cow for 12 months in officompared to the compared to the compar



A Monument to Intelligence

silo such as that of John Dickie, Brant lo., Ont., seen herewith, is a monument f the intelligence of the owner. He knows a good thing when he sees it. Photo by an editor of Farm and Dairy.

and disagreeable, due to having no higher motive than the necessity of getting them done, try for once the plan of lifting these unpleasant duties out of the commonplace by aiming to do them in the best possible way, a little better than anybody else. Get the boy imbud with the thought that the boy imbud with the thought that in the district and it won't be com-in the district and it won't be com-in the district and it won't be comhis driver is the most handsome one in the district and it won't be com-monplace work to him to keep it groomed. Imbue the boy with the thought that his cow can be at the thought that his cow can be at the top of her class if given the necessary attention and weighing the mill on any other extra work will not prove tiresome or monotonous to him.

ITS ALL IN THE GAME
All boys like to play. The pleasure
derived is in proportion to the spirit
we put into it. Men are but grownup boys and all like to be on the winning side. As long as we're "doing
things" we don't mind the bumps.
Dairy farming along the line of
Records is one of the best and most
interesting games we can engage in
today. If we play it hard we win big.
The seeming objections that loom up
like mountains to the chicken hearted, disappear, fade away, before the
enthusiasm and gimp of the winner.
Brother Dairy Farmer, for the sake
of yourself, of your boys and any financial or social benefit you may derive. ITS ALL IN THE GAME

"Be not as dumb driven cattle,

Be a winner in the strife."

About all lack in da What is the vital lack in dairy farming today? Men. Enthusiastic men, men who have visions not farming today? Men. Enthusiastic men, men who have visions not dreamers, happy men, men that are ready to earn what they get, growing men. These will comple success in any business. How can we get them? Develop them, enthuse them, educate them and you have them.





"You can make your barn fire-proof, and cheaper than a wood barn, by using my 'George' Shingle and my Galvanized Corrugated Iron on roof and walls. This is thenew way to make barnseconomically.

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doesn't need these things." "Build or repair your barn the modern way. My new book shows how it is done. It pictures a barn from start to finish. Send for it, friends, and learn how to make the best kind of barn."

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The Pan 1901, howeve putting of t an operation no let up eve every exhibi time to time been made p then importa nual event. or four diffe sed the A herds of the wonder that to the front. to make spe duals, as this community s passing that R. R. Ness h It is not or

tation for pu has become f now comman who did not pure-bred her sistently to tainly reaping now selling fo ago would ha of pure bred the reputation

### COMMUNITY BREEDING OF AYRSHIRES IN CHATEAUGUAY

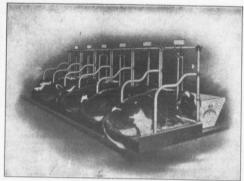
Gilbert McMillan, Chateauguay Co., Que.

HAT has community breeding dairies furnishing milk to New York in Ayrshires done for Chacter of the dairies furnishing milk to New York in Ayrshires done for Chacter of the dairies furnishing milk to New York in Ayrshires downs, one large concern taking 214 that it "has put it on the map," or in other words it has made Chateaurich with the benefit of its reputation. in other words it has made Chateau-guay the cynosure of Canadian stock-men. It has done even more material things than this. It has built barns and comfortable homes, inaugurated were up-to-date methods of farming, More up-to-date methods of farming, made farmers take a pride and re-spect in their vocation; in fact, made ordinary farmers business men. Brief-ly, this sums up the situation, but for the sake of making this more con-vincing, we will amplify these state-ments a little.

Just when Ayrshire breeding start-i in this district I am not sure, but as it is largely settled with Scotch, I think we are safe in assuming that the movement dates back to the time of the first settlers. We find records of Ayrshires from Howick being among the winners at the Columbian Exposition in 1893. In fact I believe

SUCCESS BEGETS SUCCESS
Now, that the benefit of its reputation to the district is being appreciated, new men are joining the pure
bred ranks rapidly. This is not confined to Chateauguay alone, but inc'udes the entire district of Beauthanois, until today I can name off-hand
50 men who are broading super bred 50 men who are breeding pure bred Ayrshires. This, like every other pro-gressive movement, gains impetus as grossive movement, gains impetus as it grows and from now on we may safely expect to see a more rapid in-crease. When one stops to consider the benefits derived from a community spirit like this, its success is not hard to understand

The large number of cattle to be found in a small area is one of the most potent factors in making sales, as the variety to choose from is greater, and the easy assemblage of the purchases afterwards is a big induce-



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of feeding, watering and caring for the cows. It saves feed, helps prevent tuberculosis, abortion, ruined udders and other cow diseases and ailments. It keeps the cows healthier, so they produce better milk and more of it. Those are facts! They have been proved hundreds and hun-

It saves half the work and time dreds of times by dairymen in all parts of the country-dairymen who are now making those savings and extra profits by using BT Sanitary Barn Equipment. And we want to show you how your barn can be made modern -how you can save half the work and time-how you can greatly increase your profits.



In Chateauguay, where Community Breeding has Long been Practiced

In Cantestaguary, where community precume has long open fractices without any definite breeding organisation, but with a fine friendiness covaries each other, the farmers of the Chateauguay district of Quebec have worked to the most famous breeding ground for Arphitres on the American continent. We most famous breeding ground for Arphitres on the American continent. We will be a subject to the continent of the

they were from the same "Burnside" they were from the same "Burnside": since made famous by the energetic "Bob," (R. R. Ness.) At that time they were hardly in the lead, but show records from then up till 1900 show that Chateauguay was gradually gaining ground as an Ayrshire centre.

GEOGRAPHY IN THE MAKING

The Pan American Exposition in 1901, however, started in carnest the putting of this district on the map, putting of this district on the map, an operation in which there has been no let up ever since, as the records of every exhibition o' importance held in this country will testify. From time to time, small importations had been made previous to 1904, but since then importations have been an annual event. In some cases we have nual event. In some seasons, three or four different consignments have crossed the Atlantic to strengthen the herds of the district, so there is small wonder that the section should forge to the front. While we do not aim to make special mention of individuals, as this is contrary to the real community spirit, we must say in passing that the pluck and energy of R. R. Ness has been largely responsible for the success of this idea.

It is not only, however, in its reputation for pure breds that the district has become famous. Its grade cattle now command attention, and men who did not feel justified in founding pure-bred herds, but who held on con-sistently to Ayrshire bulls, are cer-tainly reaping the benefit, high grades tainly reaping the beneat, high grades now selling for prices that a few years ago would have gratified the owners of pure bred animals. So great has the reputation of the district become, that cow buyers for the high class

ment to buyers from a distance. Today a buyer can come to Chateauguay and, at practically no expense; (he won't even need a livery, every breedto visit the neighboring herds), can review from 1,000 to 1.500 head of Ayrshires in three or four days. Just what this means it takes a man who is in the business to fully realize.

THE COMMUNITY SPIRIT

No local club has ever been formed, No local club has ever been formed, but the breeders take an active interest in the Canadian Ayrshire Association, and have given three presidents and a secretary to that organization within the past six years, which is something of a record in itself. There is no lack of "esprit decorps" among the breeders, every man placing the welfare of the breed and the reputation of his district before his own material interests. This, in no small measure, is accountable for the success attained, and these are really the fundamental principles for the success attained, and these are really the fundamental principles necessary for the success of commun-ity breeding. Unless all petty selfah-ness and jealousies are kept in the background, no district can ever hope to gain a name that will befome na-tional, or international, as has been the access with Chatasurans. the case with Chateauguay.

The greater the udder development The greater the udder development of a cow the greater its capacity for milk production. This development can only be controlled by breeding and then by feeding up to the capacity. General care and comfort also aid in reaching that capacity.—J. G. Taggart, B. S. A., Frontenac Oo., Ont.

## BT Sanitary Barn Equipment

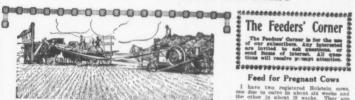
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Are you thinking of building or remodelling?	Plan Plan Plan Plan Plan Plan Plan Plan
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### Feed for Pregnant Cows

I have two registered Rolstein covar, one due to calve in about 5 six weeks and the other in about 15 weeks. They are just dry, What would you feed from now until they calve? I have a onlio, but have not in the calve in the ca

condition to produce a strong healthy calf and to make a good milk record than if she calved on the thin side as most of the cows of the country do. Grass is the very best feed for this Grass is the very best feed for this purpose, but in your case other feeds will have to be resorted to. For roughage silage, roots, clover, hay and fodder corn without ears are all desirable. Bran, middlings, cats and a little oil meal should prove most astisfactory for concentrates. From we will always the proper policy of the contract of the cont now until a day or two before calving now until a day or two before calving we would recommend a ration of 30 to 40 lbs. of roots, 12 to 16 lbs. of clover hay and as much of the corn fodder as the cows will eat readily. The grain feeds recommended are all safe and of a cooling character. The amount to feed will depend en-tirely on the cow herself. She should

be given enough to put her in good ondition, but not make her butcher fat. Some cows, in connection with the roughage mentioned, would find three or four pounds of a mixture of these grains a day sufficient while others would as readily consume 10 to 12 lbs. The herdsman must study others would as reason to 12 lbs. The herdsman must study the individual cow. Immediately be-fore calving the supply of feed should be relatively small

### Feeding Queries

Feeding Queries

(1) Should cotte be grashed or ground for dairy cows? (2) resulted and in what proportions would you drive and in what proportions would you drive the consisting of timethy hay and two gallon. of askim-milk consisting of the context of the cont

Yearling helfer calves gotting two galons of skim milk a day are fairly well supplied with protein in the milk ration alone and we helieve that more economical grain feeds can at han bran and linased meal. Curtist of that bran and linased meal. Curtist of the lowa Experimental Station the lowa Experimental Station ting of tests that he has conducted with various feeds for helfer calves asys: "The results of all investigations made at this station indicate that it is not only used. Yearling heifer calves getting that it is not only unnecessary but that it is not only unnecessary but poor economy and poor practice to use a highly nitrogenous product like use a highly nitrogenous product like oil meal in combination with separa-tor skim milk." In this case a com-bination of oat meal and corn in equal quantities could be fed to better ad-vantage. A little linseed meal might be added because of its value as a conditionative. Cotton seed meal if fed at all to young cattle must be fed in very small quantities and to young calves not at all. calves not at all.

calves not at all.

Two-pear-old heifers with calf
should receive enough feed to allow
them to attain a good body condition,
but should not be 'excessively fat.

Grass is the very best food for this
purpose, but where stable feeding is
necessary the food should be of a cooling character. Sliage, roots, clover
and hay are all desirable for rough-

age. Bran, middlings, oats and a little oil meal should prove satisfac-tory for concentrates. Heating foods such as corn meal or even cotton seed should not be fed to pregnant heifers.

### Ration for Dairy Cows

What do you think of the following ra-tion for fresh milk cows? Sliage, 36 the stimethy hay, 10 lbs. and a mixture of 150 lbs. bran, 160 lbs. oats, 50 lbs. lineed meal and 10 lbs. cottos seed meal fed meal and 10 lbs. cottos seed meal fed out of the country of

For a cow producing 20 to 30 lbs.\* of milk a day the ration mentioned is of milk a day the ration mentioned is deficient in almost every particular. Feeding standards call for 29 lbs. of dry matter, two rgd one-half pounds of protein, 13 lbs. of carbo-hydrates and one-half a pound of fat or its equivalent, and this standard agrees closely with the findings of practical consequence of the findings of practical that the property of the control of the c about 13 lbs. of starchy material, that is carbo-hydrates and fat. The weak-est point in the suggested ration is the timothy hay. If clover could be substituted for the timothy and 15 or 16 lbs. fed instead of 10, the ration would balance fairly satisfactorily. For large cows 40 lbs. of enslage and For large cows 40 lbs. of ensilage and 16 lbs. of clover hay would not be a bit too much of roughage and for a heavy producer a pound of grain to three and one-half pounds of milk would not be an oversupply. If clover cannot be secured we would advise that the amount of timothy hay fed be increased and that a small proportion of corn meal be added to the grain feed. The lack of clover hay necessitates heavy grain feeding for fresh cows and hence expensive feed

### Some Facts About Cattle Lice

B. Blanchard, Hants Co., N. S. It often happens that cattle are lousy at this time of year and unless some suitable remedy is applied to rid them of the lice considerable loss rethem of the free considerable loss re-sults. It is a big mistake to allow lice to work on cattle. Lice exact a terrible toll and it comes out of the pockets of the owners. I used to think that it did not make very much boseness of the owners. I used to think that it did not make very much difference and although the young cattle often were lousy at this time of year, I thought that they would soon get over it when they got out on to o grass and had a chance to brush themselves. Now I know better and I go after the lice promptly as soon as I find any about the cattle.

I have tried a great many different remedies for lice on cattle. One preparation that has always given me good satisfaction and which I like a little better than any of the others is Zenoleum. Recently a yoke of oxen that I keep for working in my orchard got very lousy and I went after them

Zenoleum. Recently a yoke of oxen that I keep for working in my orchard got very lousy and I went after them with the Zenoleum and had them with the Zenoleum and had them cleaned up in short order. I simply took about a gallon of water and poured about 12 tablespoonsfuls of Zenoleum into it as recommended us by the firm and I applied it to the oxen with a sponge. I took good care to wash every part of the body and to see that the coat was drenched and wet right through to the skin.

In a couple of weeks I found some more lice on them, these having got on the probably from the stalls of the probably from the stall of the probably from the stall probable of the probably from the stall probable of the probably from the stall probable of the probable probable for the course of the probable probable from the stall probable pr

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when we consider how much it costs to keep cattle in good condition and to make them put on flesh you will realize it is a very poor proposition to allow lice to feed on them.

### Massey-Harris Cream Separator

- Inside Information -

IT'S the Inside Information which counts when choosing a Separator.

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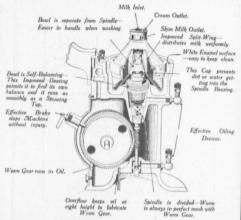
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You may yet reserve one of the best things in my coming crop of bull calves from **Prince Hengerveld of the Pontiacs**, and out of an A.R.O. dam. Enquire about it now.

Remember there are over 100 Holsteins in my herd for you to choose from. Write me of what you want.

### GORDON S. GOODERHAM

The Manor Farm, Bedford Park, Ont.

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There are 5 more in this 5th Annual Series, 1913.

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clean, honest, ABSOLUTELY GUAR-All clean, nonest, ADSOLUTELT GUAK-ANTEED advertising—mighty good company for your ad. to be in going out to prosperous Dairy Farmers exclusively!

"A Paper Farmers Swear By."

# MONEY IN POTATOES



### Don't let any of it slip through your fingers

If the average crop is good enough for you, you are going to miss the big profit on your potatoes. The extra bushels are what count. With potatoes at \$1.00 a bag they are gold. Don't let them get away

You should get 240 bushels to the acre. And you can if you start in early enough. Are you going to let bugs fly away with your profit? Are you going to sit down and let weeds and blight get in their work?

At the present high prices, the average yield of 120 bushels is not enough. It will net you \$48.00 to the acre over and above expense and labor. But expert potato growers have learned how to double the crop. The extra 120 bushels add \$80.00 per acre

to the profit, making a total clear profit of \$128.00 to the acre. What these men have learned has been gathered together in a little book entitled "Money in Potatoes." This is the best practical potato book we know. It gives you a chance to learn in a few hours facts that it took many years to accumulate.

The \$80.00 Coupon will entitle any bonafide farmer to a free copy while they last.

### THE \$80.00 COUPON



The Canadian Potato Machinery Co., Limited Galt, Ontario

As a Potato Grower I would like to have a free copy of this book.

Address

### A BIGGER, BETTER CROP OF CORN

(Continued from page 7) White Cap Yellow Dent will give good White Cap Yellow Dent will give good results. In those parts of Ontario east and morth of Toronto and north as far as Muskoka, in the southern parts of Quebec and in the eastern townships Dent varieties such as the Wisconsin No. 7. Leanning and White Cap Yellow Dent will be grown to address the Cap Yellow Dent will be grown to address the Muskowski of the Wisconsilly large southern varieties as as the Mammoth Cuban or Early Mary. varieties such as the Mammoth Cuban or Early Mastodon will come to a fair stage of maturity, but they are not to be recommended. In most cases where these large varieties are grown they have to be ensiloed at a stage in their growth where their composition is largely water and their food value very low.

very low.

Mr. A. C. Hallman, of Waterloo
Co., Ont., has a plan of his own for
seeding corn. He seeds a mixture of
Leaming and Wisconsin No. 7. In
years when seed is poor, we are the
case in 1912, at least one of the varieties is sure to grow, and Mr. Hallman is never disappointed in his Hallman is never disappointed in his crop. As he does not grow his own seed, the mixture of varieties is not a disadvantage. Three years ago Mr. Hallman carefully experimented with the two varieties mentioned and Reid's Yellow Dent. He found that the Wisconsin No. 7 was earlier than the other varieties, large in the stalk, well cared and leaved right down to the ground. This is the variety he would recommend to Ontario dairy-

WHERE MANY GET "BIT"

WHERE MANY OFF "HI" MANY OF "HI" MANY dairymen, outside of southwestern Ontario, where any variety of corn will grow, have got "bit" by following too literally the results of experiments at the O. A. C. Referring to a recent report of Prof. Zavita' experiments we find that on the Evengmental plots the Event Zavitz experiments we find that on the Experimental plots the Eureka produced 24.68 tons of green feed to the acre, while the Wisconsin No. 7 produced only 17.92 tons of ensilage. ti swell to notice, however, that the Eureka produced only 2.71 tons of ears, while the Wisconsin No. 7 produced 4.07 tons of ears, and would therefore make a much heavier and therefore make a much neavier and more valuable silage. Also the Eureka required 104 days to come to full tassel, while the Wisconsin variety was tasseled in 89 days. We can pro-vide our dairy cows with water more cheaply than by preserving it in a silo in the form of large southern corn. When corn is seeded in drills the standard seeding is 42 inches apart in

the row, and the plants six to eight inches apart in the drill. When seeded in hills, and this method is advis-able where the land is particularly able where the land is particularly weedy, three feet each way should be allowed. It is here that many dairy farmers are making a mistake that makes it impossible for them to ever grow a good crop of corn so long as they follow present methods. In some sections of eastern Ontario corn rows are invariably only two feet apart, and with the stalks almost as thick in the drill as they will stand. We should not forget that corn takes the greatest portion of its nutrient from the atmosphere in the form of carbon dioxide, hence the necessity of lots of air room. We should also rememof air room. We should also remember that the formation of starch and augar, which comprises a good portion of the nutrient value of the orn plant, is formed under the tection of the ray of the sun, and the rays of the sun, and dills a good distance apart. It is the lack of sunlight that explains the of air room. sickly appearance of this thickly seeded corn.

WHEN PLANTING THE CROP WHEN PLANTING THE CROP Corn may be sown as soon as soil and weather conditions permit, that is when the soil is warm and dry, from the 15th to the end of May. If no special corn planting machine is

available, the ordinary grain seeder may be used by closing up a part of the seed spouts. When planting in hills and by hand cheap hand seeders hills and by hand cheap hand seeders can be secured that are quite satisfac-tory. In this case the land must be marked off in three-foot squares, pre-ferably with a corn marker\*drawn by marked off in three-toot apuar-, by ferably with a corn marker-drawn by a horse. Such a marker-a can be cheaply constructed by taking a six-inch rail nine or 10 feet long and inserting, a peg every feet long and draw it lengthwise and then crosswise of the field. The amount seed will depend on its percentage of germination. When sowing for the field, the amount of the field of the pend on its percentage of germination. When sowing the first varieties and 30 lbs. of the film twarieties and acre is sufficient. With hills, 15 lbs. of fiint and 18 be of dent corn will meet requirements. The newly nilment requirements. The newly nilment requirements. lbs. of flint and 18 lbs. of dent corn will meet requirements. The newly planted field may be rolled to firm the soil around the seed, but the rolled to soil around the seed, but the rolled to flind a light harrow. A scheme frequently practiced nowadays is to attach a light smoothing harrow directly be. practiced nowadays is to attach a light smoothing harrow directly be-hind the roller. It will not greatly increase the draught, and the two operations are done at the same cost as the one

few days after seeding, say the A lew days after seconds, say the third or fourth in warm weather, or the fourth and fifth in cool weather, a run over the field with a slant tooth a run over the neid with a siant tooth harrow or a light smoothing harrow will break the crust destroy any weeds that may have terminated and help warm the soil. When the corn help warm the soil. When the corn has been up a few days and can be seen distinctly in the rows, it is good seed distinctly in the rows, it is good practice to run over it again with a light smoothing harrow, passing over the rows crosswise. This operation will not tear up any corn worth men-

tioning

BILIGENCE IN OULTIVATION

BLIGENCE IN OULTIVATION

Betarnal diligence should characterize all later cultivation. Once a week is not too often to go over the field with the cultivator. A point of particular importance is to cultivate the value of the control of vances until the cultivator teeth pene-trate the soil only a couple of inches. The feeding roots of the corn are near the surface, and deep cultivation cuts

the surface, and deep cultivation cuts off this source of supply for the crop. Only in exceptional circumstances should the rows be ridged.

If the proper varieties are selected, if the land is prepared and the crop cultivated according to the instructions given herewith, there is no reactions given here with the control of Outside Co son why the average crop of Ontario should not be 15 tons instead of 10 tons. We also believe that the avertons. We also believe that the average acreage on our dairy farms could well be increased, perhaps doubled. It will be noticed that corn requires very little hand work. Moderni tyent wention makes it possible to cultitude corn in just half the time that was necessary until three or four years ago. Cooperation among neighbors will solve the silo filling problem. Let us go out this year for a bigger, better crop of corn than we were grew before.—F. E. E.

Such is t Som

Apri

T woul or no owes to da dairy cat is indebt for liftin the poor the splene other har the foren who stood favorites most unp tions imp stein-Fries were so h the develo ada, it wa else, was r of the e Breeders' ring and Hallman provement breed. W steins owe Mr. Hallm

The Spr day are t jects in v 25 years m the stable. Holstein is words. "I cow in my that is to a producer and great breeders ar that will me of their al making offs will produce herself."

And Mr. working out gether of yo aged 10.000 a shallow co



Cows such

Production, in his 25 ye two-year recof milk and for her dan has a seven days; himself was officially tes man's herd some of the Korndyke.

### A RESULT OF 25 YEARS OF CAREFUL BREEDING

### Such is the Herd of Mr. A. C. Hallman, Breslau, Ont., the father of the C. H. B. A. Something of Mr. Hallman's Ideals as a Breeder and Their Practical Results as Evidenced in the Spring Brook Holsteins of To-day.

I T would be difficult to say whether or not Mr. A. C. Hallman, the veteran breeder of Breslau, Ont., owes to dairying as much as pure breed dairy cattle owe to Mr. A. C. Hallow dairy cattle owe to Mr. A. C. Hall-man. On the one hand, Mr. Hallman is indebted to pure bred dairy cattle is indebted to pure bred dairy cattle is indebted to pure bred dairy cattle for lifting him out of debt and from the poor and impoverished farm on which he started many years ago to the splendidly equipped 170-acre farm on which he now lives. But on the other hand, Mr. Hallman stands in the foremest rank of those pioneers who stood by their black and white most included the splendidly of the splendidly of

AN IDEAL SOUGHT FOR

The Spring Brook Holsteins of today are the rerook Holsteins of today are the rerook 25 years of
breeding and selection with three objects in view—produce constitution and desirable conform. For
25 years milk scales have been
the stable. Mr. Hallman's ideal of the
the stable. Mr. Hallman's ideal of the
Holstein is best expressed in his own
words. "I wouldn't have a shallow
cow in my herd," said he. "A cow
that is to be a reproduced as well as AN IDEAL SOUGHT FOR that is to be a reproduced as well as that is to be a reproduced as well as a producer must have lots of depth and great constitution. Too many breeders are running after the cows that will make big records irrespective

that will make big records irrespective of their ability to produce record-making offspring. I want a cow that will produce a calf that is better than herself." herself."

And Mr. Hallman has succeeded in working out his ideal. Last year his milking herd, comprised a most altogether of young cova and milking herd, comprised the portion of them two-year-cide, are aged 10,000 bs. of milk. There is not a shallow cov in the stable. They all possess good depth at the heart and bread baskets that indicate their abilbread baskets that indicate their additive to handle economically large quantities of food. Mr. Hallman is most rigid in his selections and any animal that does not come up to his ideal is disposed of; and this does not mean that it is sold out of the herd! It is beefed! "I would not sell to any other



Considered by Many the Greatest Sire of the Breed in Canada

Mr. A. O. Hallman, Breslau, Ont., recently refused \$8,000 for his herd sire, \$8ir\$ for his herd

Photo by an editor of Farm and Dairy.

A SON OF FONTIAC KORNDYKE

Some months ago Mr. Hallman was
under the necessity of selecting a new
sire for his herd that would be good
enough to retain and improve the
nough to retain and improve the
high standard of Spring Brook Holsteins. On looking over some of the
heat berde of America. Mr. Hallman
heat berde of America. Mr. Hallman
hally decided on Sir Korndyke Bon,
a son of Pontiac Korndyke. From
this sire he has so far had 12 heiters
and eight bill calves. These calves
are all straight, growthy animals,
are all straight, growthy animals. all straight, growthy animals.

breeder, cattle that I do not consider Mr. Hallman, however, considers that good enough for myself," remarked he has a bull that will get him splendid stock and would not part with him.

selecting Sir Korndyke Boon In selecting Sir Korndyke Boon Mr. Hallman got a sire that for breed-ing cannot be excelled in this coun-try. Old Pontiac Korndyke is gentry. Old Pontiae Korndyke is generally accredited to have been the greatest sire of the Holstein breed, he having 77 of his daughters with A.R.O. records and three of his daughters have been World's ecord cows. In fact, the majority of lower with records running over 33 the cost with records running over 33 lbs. of butter in seven days are of Pon jac

Korndyke stock. Mr. Hallman's bull has 87½ per cent. of this desirable blood, its dam, Fairview Korndyke Boon, also being a daughter of Pontiae Korndyke. Mr. E. H. Dollar, from whom Mr. Hallman purchased his bull, has a high opinion of Fairview Korndyke Boon, and told one of the editors of Farm and Dairy, who visited him last summer, that he expected her to make a 37 or 38-lb. pected her four years old she producerous. and show that Pontiac Korndyke blood nicks in remarkably well with Mr. Hallman's females. Mr. Hallman's females.

"THE BEST IN CANDA." SAYS ONE MAN

Sir Korndvic Boon is a splendid
individual. He has a strongly masculine head, carries himself with spirit
and has the substance, indications of
constitution, and the symmetrical
conformation that would make him a record. At four years old she produced 32.17 lbs. of butter and 529.5 lbs. of milk testing 4.86 per cent. fat in seven days. She has a 30-day record of 130.31 lbs. of butter; a three-year-old record of 26.70 lbs. of butter, and old record of 20.70 lbs. of butter, and in two years and two months she produced 18.97 lbs. of butter. In none of her tests has the milk of this cow tested less than 4.65 per cent fat. One tested less than 4.60 per cent lat. One of her tested daughters has just made 17 lbs. of butter as a senior yearling. It will thus be seen that Mr. Hall-It will thus be seen that Mr. Hall-man has secured a buil that on his sire's side has no equal and has for his dam a cow that is not only a big producer, but as well is a producer of high-testing milk. Fairview Korndyke Boon is in a fair way to make still higher records, which will materially increase the value of Mr. Hall-man's buil and of all his offspring.

Wayne DaKel Rutse Mid Suid

Wayne DeKol Butter Maid 2nd. in conformation and production, is typical of the females in the Spring Brook herd. As a two-year old she produced 16.5 lbs, of butter in seven days. As will be seen by the illustration of her on this page she has good depth, great capacity, as indicated by a well developed middle, has a shapely udder and is a fine handler. In fact, fine handling qualities are a fact, fine handling qualities are a characteristic of Mr. Hallman's Holsteins. Standing near her was Paulseins. Wayne DeKol Butter Maid 2nd, ine Gerven. At the time of our visit, Mr. Hallman was getting this cow ready for a record; and if large udder development, and the second of t ready for a record; and if large udder development and the conformation that indicates feeding capicity mean anything in milk production, she will do well. Equally favorable mention might be made of the other females in the herd.

Mr. Hallman might well be proud of his young stock. Apart from being big, growthy fellows of fine conform-ation, Mr. Hallman's youngsters are the finest handlers we have ever seen. the finest handlers we have ever seen. Their hair is so mossy as to more resemble fur, and their hide is of the pliable kind that indicates a good deer. Mr. Hallman can spare a few of these. Intending purchase of the state of the seen The stables at Spring Brook Farm

(Continued on page 35)



Cows such as these, Bred both for Production and Reproduction, are Typical of the Spring Brook Herd of Holsteins, the property of A. C. Hallman, Breslau, Ont Cows such as these, Bred both for Production and Reproduction, are Typical of the Spring Brook Herd of Holsteins, the property of A. C. Hallman, Breslau, Ont Production, constitution and destrable conformation: To get cattle possessing all three of these qualities has been the object of Mr. A. C. Hallman, Breslau, Ont. in his 25 years as a Holstein breder. The spring Brook matrons here represented are typical. As a Sadie Paulinie, 6932, to be seen on the left, he as a official to you are rooted of 381 like of milk and 12.75 feets from the seen of the seen of the seen of the left, he as a official to the seen of the left, and the seen of the left, he as a official to the seen of the left, he are official to the seen of the left, he are official to the seen of the left, he are official to the seen of the left, and the seen of the left, and the seen of the left of the seen of the left, and the seen of the left, and the seen of the left, and the seen of the left of the seen of the left, and the seen of the left of the seen of



# Pro-fat Molasses Meal

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Name and Address

DYER says: "A one cent postal to me NOW may mean many a \$1 say

(75% Dried Malt, 25% Pure Cane Molasses)

The wonderful results obtained by the large dairies and dairymen around Toronto by feeding our Pro-fat dairy feed has led this company after many requests from dairymen, to add as pounds of pure Cane Molasses to each 75 pounds of Pro-fat. The result being a molasses meal without an equal, as the following guaranteed analysis will show:—Protein 20%, Fat 5%, Fibre 13%. Compare this with other molasses meals offered to the public and it will leave no doubt in your mind as to the truth of our claim. After a test at the T. Eaton Company's Farm, Georgetown, and other Dairy Centres, we have decided (in order to introduce this meal) to make the following proposition to Dairymen throughout the province:

### 30 Days' Trial

We will ship on thirty days' trial, freight paid, one ton of Pro-lat Molasses Meal to any responsible dairyman in the Province of Ontario with an absolute guarantee (fed pound for pound in place of other meal or concentrates) to produce more and richer milk for less money. If it fails to do this there will be no charge for the meal. If it is all we claim for it, the charge will be \$1.40 per hundred, or \$2.8.00 for the ton. Dairymen who have recognized the value of Cane Molasses for dairy herds have an opportunity here of trying a genuine molasses meal of real merit without running any risk whatever. It is the only molasses meal endorsed by the authorities of the O. A. College, Guelph. Send your orders in or write to us for more particulars if you have any doubt about this offer. This meal is equally good for horses; no dairyman can afford to be without it. Write for list of dairymen who have already used it. We also have this meal for Calves and Hogs.

### Feed Pro-fat Molasses Meal and Watch the Milk Flow Increase

THE FARMERS FEED CO., LIMITED

DEPT. A., 108 Don Esplanade TORONTO, ONT.

### Alfalfa, the Greatest Dairy Roughage

(Continued from page 6)

"Pasturing alfalfa is not recommended, but I find that the second cutting of alfalfa comes in about the time that other pastures are short. I have frequently turned the cows on it, and the extra flow of milk is such that no other pasture produces. This pasturing may be earried too far, but I do not think the cows ever did my alfalfa any harm, and it has done the cows a whole lot of good and at little expense."

A COST OF \$3.82 A TON

Mere estimates on the cost of producing any crop are apt to be un-reliable. One of the few farmers in Ontario who keeps accurate track of producing all his crops is R. E. Gunn, of Ontario Co. Here is his estimate of the cost of producing an aere of alfalfar yielding four tons in three cut-tings. Rent, \$5: cutting, \$1.20; ted-ding, \$2.10; colling, \$0: mowing and drawing in, \$2.97; seed on four-year rotation, \$1; manure, \$1.29; machinarges, \$00. Total, \$15.27, or \$3.52

"Do we consider it advisable to have a considerable acreage?" asks Mr. Gunn, and gives his own answer. "We had 10 acres of alfalfa four years ago and have 125 acres now. We have never experienced any trouble in getting a good catch of alfalfa, nor have we ever seen our land in better producing condition than after a crop has been plowed."

The area suitable to alfalfa growing is not all found in Ontario, although so far it has been most extensively grown in that province. We have seen excellent crops growing in Nova Scotia, New Brunswick and in Quebec. Some of the finest stands we have ever seen were on the Macdonald College Farm. Mr John McIntosh of Ormstown, Que., has also grown alfalfa successfully.

A SUCCESS IN MANITOBA

"Alfalfa is a complete success on this farm," writes W. C. McKillican. Superintendent of the Experimental Farm at Brandon, Man. "We have it growing on very heavy clay land in the river bottom, on rich sandy loam on a higher level and also on very nearly and location gravelly upland. In each property of the gravelly upland. In each gravelly upland. In each gravelly upland. In each gravelly upland in the gravelly upland. In each gravelly upland in the gravelly upland and the gravelly upland. In each gravelly upland upland upland upland upland. In each gravelly upland upland upland upland upland upland. In each gravelly upland upland upland upland upland upland upland upland upland. In each gravelly upland upland. Upland u

it is usually beseficial."

Alfalfa is being grown commercially in the Lethbridge district to the extent of several thousand acres by the aid of irrigation, though it can be successfully grown in all sections without irrigation. In the dryer sections of Alberta, G. H. Hutton, B.S.A., of the Experimental Farm at Lacombe, believes that alfalfa will produce more hay than any other per-ennial forage crop. Alfalfa has been successfully grown as far north as Fort Vermilion, thus including all of the dairy districts.

Alfalfa is no longer an experimental plant. There are many reasons why every dairyman should grow lots of it. The best reason is that he can't afford



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O. A. C. No. 21 BARLEY, choice
threshed and not scoured. Ten bushe
lots. 85 cents. Best cotton bugs 25 cent
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P"Geed Luck" Feeds State feed and scratch feed and strit, bore sorap, ground bone, oyster shell etc., and all Poultry much cor lower than others can feel or feed as a low or lower than others can can craw or than others can can craw or the craw of the craw o

### The Call of The North

Do you know of the many advantages that New Ontario, with its offers to the prospective section of the prospective these rich agricultural lands, obtainable free and at a nominal cost, are already producing all cost are already producing the section of the world?

For literature descriptive of this great territory, and for information as to terms, homstead regulations, settlers' rates, etc., write to

H. A. MACDONELL.
Director of Colonization,
Parliament Buildings,
Toronto, Ontario



Apri

D. An Great small fa February Clark of ment of acres, debees. A belaims he as lots of the country we county we country we clark. they are quarter to their

Mr. D. Angebee man fir built the at and makes

only half of keeper has mer. If h his or her take care of and the be any part of as long as May, that on summer I will give have done.

ner bee cin di his so colonies. Now we ha is in the the We have a homes as which holds is piped all have hot ar ment, kitchydrants in and sprayin We also hav all applian and extract we have beyears. If the few years of fer badly. r place a plas We have

We have on our one completed a capable of 1 my sons we short course tends to try he has gone Barred Rock I will let ti Dairy know

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All "ARLINGTON COLLARS" are good,

but our CHALLENGE BRAND is the best

nitary Steel Stalls

Feed and Litter Carriers

The best Carrier ever made

Barn Doo Hangers

### Resessessessessesses N APICULTURE Koossassassassassassassa e

### A Living from Bees

D. Anguish, Middlesex Co., Ont. Great are the possibilities of the small farm. I see by the C. B. J., February issue, that Mr. J. W. Clark of Brant county, gives a statement of what he produced from 25 for the country of the country of the claims he had \$3.781. Expenses he claims he had \$3.781. Responses he claims he had \$3.781. Responses he claims he had \$3.781. Responses he claims he had \$3.781. Response he claims he had \$3.781. Response he claims he had \$3.781. The country can be duplicated in any other country. There are several bee-keepers in Middlesex county who are doing as well as Mr. Clark. The only difference is that they are only occupying from one-fluxter to one acre, and devoting all of their time to bees; or I may say D. Anguish, Middlesex Co., Ont.



Honey Bees Did It

Mr. D. Anguish, Middlesex Co., Ont., is a bee man first, last and all the time. He built the attractive home here illustrated and makes a good living, and then some, from his bee yard.

only half of their time, for the beeonly half of their time, for the bes-keeper has to work only in the sum-mer. If he has taken good care of his or her bees in the fall, they will take care of themselves in the winter, and the bes-keeper can take trips to any part of the world he may see fit, the world has the see that the see the May, that is back by the first of May, that is the best are packed on summer stands not be the see the seep I will eige you a history who all his world.

I will give you a hint as to what we I will give you a hint as to what we have done since we came to the ban-ner bee county (Middlesex). We landed in this county 13 years ago with 90 colonies of bees, and a small debt. Now we have as nice a home as there is in the thriving village of Lambeth. We have all the is in the thriving village of Lambeth. We have all the conveniences of city homes as we have an elevated tank which holds 55 barrels of water, that is piped all through the house. We have hot and cold water in the have next, kitchen and bathroom, also hydranis in the barn and beev-and, by the state of the lawn. We also have 500 missing or the lawn. We also have 500 missing of the lawn. all appliances to produce both comb and extracted honey by the tons, as we have been doing for a number of years. If there happened to come a years. If there happened to come a few years of reverse we would not suf-fer badly, neither would we have to place a plaster on our home.

We have started another industry We have started another industry on our one are plot. We have just completed a double-deek hen-house, capable of housing 200 hens. One of my sons went to Guelph and took a short course on poultry. Now he intends to try to eclipse Mr. Clark, for he has gone into pure bred poultry—Barred Rocks and Rose and Single Comb Rhode Island Reds. Later on I will let the readers of Farm and Dairy know he succeeds.

### Seed Corn

We have 4,000 bushels of Seed Corn-leading varieties grown in Kent County, and cured in our own cribs, which we will sell in small quantities —on the cob or shelled. Dent varieties ... \$1.40 per bushel Flint "... \$1.75 "

Special prices on orders of 10 bushels

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M. W. SHAW & CO. MERLIN, ONT.

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For best results ship your live Poultry For best results snip your live Foultry to us, also your Dressed Poultry, Fresh Dairy Butter and New Laid Eggs. Egg cases and poultry crates supplied.

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The DAVIES Co. Toronto, Ont.

If you are building or re-building this Spring-you need the

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CIRCULATION STATEMENT
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OUR GUARANTEE

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FARM AND DAIRY

### THE DAIRY SITUATION

The dairy industry of Canada is progressing; but it is not progressing as it should. The total value of the dairy products produced in the Dominion last year were valued by the Dairy and Cold Storage Commissioner at \$105,000,000. This is a small increase over the year previous. In the same year the number of dairy cows shows a falling off of several thousands from the number kept in 1911. Our export trade in dairy products declined, not only relatively. but actually, the value of cheese exported in 1912 being almost two and one-half million dollars less than in the previous year. In the case of butter, Canada is now an importing country. This falling-off is explained in part by an increasing population and hence an increase in the demands of the home market. But with such a large area suitable for

ment of the industry sufficient to meet both home and foreign demands. We may well ask what factors are hindering the extension of dairying.

In the first place, we need better cows. There are enough cows in the country now to supply the growing home demand and to maintain and increase our export trade. trouble is that many of these cows are not paying their board. average production of dairy cows in Canada is only a little over three thousand pounds of milk a year. We may, however, look for a better day. More interest than ever before is being taken in cow testing, due largely to the enthusiastic work of Mr. C. F. Whitley, and breeders of pure bred dairy stock report that never before in the history of the trade in Canada has the demand for good stock been so keen

In the second place we must grow more suitable crops. We need a larger acreage devoted to corn and more siles Instead of, as in the case of Ontario, thirty-three per cent. of the dairy farmers growing alfalfa, one hundred per cent, should be growing this greatest of all milk producing crops. A good acreage of corn and alfalfa on every dairy farm would mean more milk at less cost.

But at the basis of all improvement must be more interest on the part of dairymen themselves. Too many of us are accustomed to regard dairying as a kind of a side line and the milking as chores. Dairying, where properly conducted, is a business worthy of the first attention, and when it gets this attention it is the most profitable branch of live stock farming Farmers, we believe, are coming to see the merit of the dairy cow as a money maker. In the growth of this new interest we foresee a great expansion of the dairy industry in Canada.

### THE NATURE OF MONOPOLY

Every millionaire-making trust derives its immense profits from some form of monopoly Some trusts already are world-wide in their operations. William E. Cory, a former president of the United States Steel Corporation, testified in 1910 that there was an understanding with foreign rail manufacturers in which each corporation agreed not to compete with the others in their own countries. Mr. Andrew Carnegie, before an investigating committee recently, further testified that competition in steel within the United States is not possible, because the corporation of which he is the head have cornered all the best ores. The Standard Oil Company, too, cannot be reached through the lowering of the protective tariff, as there is a world-wide agreement among leading oil dealers who own most of the oil wells. Where lies the monopoly in these two cases?

The steel and oil trusts represent a form of monopoly that is fraught with much danger to humanity. They represent a monopoly of the resources

of the earth itself. Did the good Creator, when he placed iron ore in the bosom of the earth, intend that that ore should be connered by any one concern? Has any combine of capitalists any moral right to take unto themselves the God-given wealth of the earth, to keep others from using what they are not using themselves and set an exorbitant price on the small portions that they deal out from year to year? Similarly, were the oilfields intended to make millionaires out of a few oil magnates such as John D. Rockefeller?

We contend that concerns such as these, which have secured a monopoly of some natural resource, should not be allowed to benefit unduly, but that, through taxes, much of the benefit should be taken by the state for the benefit of all the people. Every natural resource should be taxed at its full value. For instance, valuable coalfields held out of use should not be taxed as if growing scrub spruce, but at the value of such a proportion of the wealth they represent as is readily available Such a system of taxation is in line with that endorsed by every farmers' organization in Canada.

### WHY COOPERATION FAILS

It is a mistake to assume that business methods that have proved most satisfactory in the city are equally applicable to the country. It is this tendency to "townificationize" country business that explains the failure of so many of our so-called cooperative societies. We say "socalled," because many of these societies are not really cooperative in nature, but are formed on the joint-stock plan. There is an essential difference between joint-stock and cooperation that makes the former peculiarly adapted to the town and the latter most desirable in the country. Speaking before the South Commercial Congress at Washington, Sir Horace Plunkett, who established the cooperative system in Ireland, emphasized the difference between these two systems of doing business.

"The ordinary joint-stock corporation," said Sir Horace, "is a pooling of business for more economic or thorough conduct of an investment of capital for profit. The majority of those who join part with all control of their business. The farmers' combination is wholly different in its purpose. He who enters it does not wish to part with his business or with its control, and he does not seek an investment for his capital. joins with his neighbors with the sole object of bettering the conditions under which he conducts his own business."

Hence it is that a farmers' organization, formed on the joint-stock or capitalistic basis, almost always breaks down. The control of the profits of the joint undertaking falls into the hands of those who happen to have the most stock in it. In the truly cooperative concern the reward of capital is limited to a fixed percentage and the remainder of the capital is divided among the partici-

### Protection and Wages

Protection and Wages

The average wages of the 72,571

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Ganada in the year Butteries of the result of the second o

pants in proportion to the business they each do in the concern. This is the form of cooperation that has been so successful in Ireland, that has made Denmark one of the most talked of countries in the world, and it is also the system on which our own most successful cooperative concerns here in Canada are based. It is the failure to adopt the truly cooperative principle which rewards every man according to the business that he does rather than the money that he invests in the stock of the association, that explains the failure of many cooperative enterprises in rural Canada to accomplish the purpose for which they were formed

### BOOK FARMERS

The book farmer was once a subject of ridicule. By book farmer, we mean the man who studies dairy papers and all agricultural text books available in an effort to inform himself on the problems of his occupation. But the book farmer has made good. Our most successful farmers are all more or less bookish. If any further proof were needed of the practical dollars and cents value of dairy literature to a dairy farmer, it is afforded in a review of the cow census work conducted by W. D. Hoard of Wisconsin, and published in a recent bulletin.

Conditions in Wisconsin, which is almost entirely a dairy state, are very similar to conditions as we find them in any of the dairy districts of Canada. The owners of four hundred and sixty-four herds investigated, having six thousand three hundred and three cows, were registered as readers of dairy papers. They fed their cows at an average cost of \$34.78, securing \$1.42 for each dollar spent for feed, and had a net profit of \$14.54 a cow. The cow owners, whose minds were not illuminated or their methods improved through the influence of dairy literature, had seven hundred and fifty-three herds. composed of nine thousand one hundred and twenty-two cows. They fed their cows for \$35 each, and had an average annual profit of \$1.85 a cow as compared with the average profit of \$14.54 a cow made by the "bookish" ones. Of the non-readers fortyeight per cent. actually lost money in following the dairy business.

A further point brought out in con-

nection the gre country. ed by da tors ger profitab exactly cessful investiga great m were ma silage, 1 good, co buying o ment the words, th "books"

April

Most their box not paid they will city.

Of cou peculiar o mobile a ceived m orable an this it is Norval A ager of th recently Adcraft ( criticisms "The 1 in advertis what a tre

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Farm and D "A Paper F

nection with this great dairy census, the greatest ever conducted in any country, is that the points emphasized by dairy papers and dairy instructors generally as those necessary to profitable cow keeping, correspond exactly with the practice of the successful farmers whose methods were investigated by Governor Hoard. The great majority of the dairymen who were making money were feeding onsilage, had cows of dairy type, had good, comfortable stables, and were buying concentrated feeds to supplement those grown at home; in other words, they were doing just what the "books" tell us we ought to do.

Most farm boys earn more than their board and clothes. If they are not paid for that additional work they will soon find their way to the city.

### AD. TALK

Of course you have noted the peculiar display of the Ford automobile advertising. It has received many criticisms, both favorable and adverse. Because of this it is interesting to note what Norval A. Hawkins, sales manager of the Ford Motor Company, recently said before the Detroit Adcraft Club in answer to the criticisms:

"The Ford Company believes in advertising. It knows full well what a tremedous power advertising really is. The right sort of advertising should reduce the selling costs by increasing the demand and consequently lowering the cost of manufacturing and distributing.

"Ford's small space and peculiar copy are being commented on all over the country. Some of the comments are favorable—but and some are unfavorable—but at any rate, so long as interest is excited, the ads. are probably read, and we benefit accordingly.

"To-day there are 500 things offered to readers' attention when there were there were twenty a decade ago. News and stories, gossips and books and advertisements almost without end, fairly yelling for attention. If more of us got into the receiving end of our advertising the copy turned out would probably pull more prospects, and, you know, to-day's prospects are to-morrow's business builders to a far greater extent than to-day's buyers.

"Advertising is not unlike any other operations in business requiring a few well-grounded principles—backed with an ordinary supply of common horse sense.

"Besides, an advertisement must make a successful appeal to the eye if it is to force the hand to the pocketbook; so use taste in the lay-out."

It is worth your while to think over Mr. Hawkins' statements also to note in passing how the Ford Motor people value and use Farm and Dairy—

"A Paper Farmers Swear By"

### Anent Demonstration Farms

"Subscriber," Ontario Co., Ont.
So Dr. G. C. Creelman tisinks that
the demonstration farms will be a
failure, his main reason for thinking
so being that there was a slovenly
farmed 50 acres next the Agricultural
College Farm at Guelph,
I would like to ask Dr. Creelman
what his methed would be of demonstrating good farming. Mere telling

I would like to ask Dr. Creelman what his method would be of demonstrating good farming. Mere telling people has little weight. They want to see the problem worked out. In my neighborhood at one time the farmers thought of nothing more than plenty to eat and wear. What cash they had outside of this went to keep up the social part of life. The thought of maintaining fertility or of making improvements of any kind never seemed to enter their heads. They considered that tiling was burying their money, improving buildings was spending money they would make the seement of th

AN INSTANCE OF IMPROVEMENT I remember particularly one 50-acre farm, all cleared and tilbable land. I remember farmed the second of the second

The new man thoroughly tiled this place. He tore the whole fence system right out and up in a pile for the buzz saw. He arranged the farm for a four-year rotation of crops consisting of corn, oats, clover and pasture. He remodelled the house and also the barn buildings. Now he has been offered \$4,000 for the property, but asks \$5,000.

but asks \$5.000. In the meantime while he was making these bihanges everybodys eyes
were on him. They admired his clean
corn fields. They noticed his oat crop
increase from 20 bushels to 50, and
even to 70 bushels an acre later on;
other crops accordingly. His neighbors became ashamed of their dirty
corn fields and their low crop producorn fields and their low crop prodution. They watched him and took pattion. They watched him and took patded reformation in the whole locality.
I believe the credit is due to this one
man.

man.
This is a sample of what a demonstration farm could do for any community. All will not benefit therefrom, but those with spirit will. No wethod ever devised would ever move to better things that man on the 50 acres next the Agricultural Farm, but thank goodness all are not like him.

The Ontario Agricultural and Experimental Union is prepared to distribute into every remarked to contario, material of high quadratic material of the Union's experimental work are advised to write Prof. C. A. Zavits, Ontario Agricultural College, Guelph, Ont., for full information as to the 30 experiments that will be conducted.

# TRADE in your old separator on account of a new DETAVAL

An up-to-date De Laval Separator will, on an average, save its cost every year over any other separator.

In addition to the actual saving in more and better cream there is also a saving in time of separation and cleaning, in easier running, greater durability, and fewer repairs. Because of these savings more than 40,000 users of inferior

savings more than 40,000 users of inferior and worn-out separators of various makes last year took advantage of the De Laval exchange allowance and traded in their machines on account of De Lavals.

USERS OF OLD DE LAVALS, on account of the many improvements in the modern De Laval over machines sold 1 ot 0.5; years ago, including closer skimming, e sier running, better oiling, etc., will also find it to their advantage to exchange their old De Laval for an up-to-date De Laval.

SEE THE NEAREST DE LAVAL
AGENT. He will tell you how much he
other make, toward the purchase of a new De Laval office giving make, number and size of your present machine,
and full information will be sent you.

DE LAVAL DAIRY SUPPLY CO., LIMITED

# "MONARCHS" Make Farm Work Light

A willing, easily-moved "Monarch" Engine saves hours of work sawing wood, pumping, gridning, cutting silage, cream separating, etc. It pays to have one. The separatech has spark retarder, throttle, and the separate has spark to see the separate has spark to see the separate has sparked by the search of the separate has sparked by the search of the search of



Get our "red circle" folder for a post card. It explains every feature.

CANADIAN ENGINES Limited, DUNNVILLE, ONT.

THE FROST & WOOD CO, Limited, 11

Montreal, Que., St. John, N.S. SMITHS' FALLS, ONT.

# BIBBYS CALF MEAL

CREAM EQUIVALENT FOR RAISING CALVES AND YOUNG PIOS

GRITAINS & BUICH MIGHER PERCENTAGE OF REAL NATUE, THEN OTHERS

ADDS BY LEARNING MERCHANIST, OR GREET FROM WE RENNIE OF LIMITED

TORONTO - MONTREAL - WINNIPEG - VANCOUVER

### The Barns at Lakeside Stock Farm, the Property of Mr. Geo. H. Montgomery



great practical W. F. Kay, M.P. feed and care.

thus being a rent-paying, mortgage-lifting kind of cow to keep around. Can you wonder, then, that it afforded one of the editors of Farm and Dairy great pleasure two weeks ago to go carefully through two great herds of high producing show type nerds of high producing, show type Ayrshires at Phillipsburg, Que., these herds being at the Lakeside Stock Farm and at the Ravensdale Stock Farm, owned by Mr. Geo. H. Montgomery and Mr. W. F. Kay respectively! While making these forbids us giving all in entirety at this time, and therefore will be held over for Farm and Dairy readers in future issues.

It was over 10 years ago that Mr. It was over 10 years and on the state of the to breed the best in pure-bred Avrshire cattle. They both became interested in the pure-bred Ayrshires about the same time, and being good and profitably can do,—went compensates entirely for the disad-by they were enabled to provide buyers. And buyers get full advan-and individuality is, because the superstance of the handless and the superstance of the su themse was united and individuality in herd sires, and since prices are kept down much lower this at only half the cost it would enthan they would be out in a larger, tail for any one herd alone. The re- better known and handier-to-get-at sult of this policy is most remarkably centre. evident in the superior class of show able yearling and 18-months-old bulls evident in the superior class of snow and yearling and is-months-old bulls yard type and high production Record of Performance Ayrshires, cow of the best of imported sires and after cow and many of them in these qualified Record of Performance two herds to-day

Their latest purchase in the way of a herd sire is Auchenbrain Sea ber of bulls at both of these farms, Foam, the first prize and champion and we thought at the time what an imported and shown by R. R. Ness, some one wanting a car-load or for favorably known to Farm and Dairy needing a herd sire and who could go readers. He was gotten to take the to these farms and take their choice place of Barcheskie Cheerful Boy, a of the best. Even for a grade herd place of Barchekie Cheerful Boy, a grate herd grate bull, which preceded him. and which was unfortunately lost through touch with Mr. Montgomery or with blood poisoning, caused from wire getting into his stomach. A picture of "Cheerful Boy" appears in connection with this article, as does also meetion with this article, as does also another one of their great bulls. Montgomery does not his blood poisoning, caused from wire getting into his stomach A picture of "Cheerful Boy" appears in connection with this article, as does also another one of their great bulls. Mr. Montgomery does not his Lakeside Stock Farm himself, He soil for producing all ords of corn inclusives. He farm a superior one for inclusives. Which all the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the puts in a great deal of list and the put of the puts in a great deal of list and the put of the puts in a great deal of list and the put of the breeder or up-to-date cattleman can the farm, however, going corn in its natural succulent state, as a glance, with this information and these illustrations before him, picture in his mind the superior class of there in the summer, since he has his true in his mind the superior class of Ayrshires that to-day are in the herds at the Lakeside and Ravensdale Stock. Bay. He has since starting into the Ayrshires that the summer in the village on the farms. Both Mr. Montgomery and Mr. Eay have always been enthusias—tice about their Ayrshires; they have

HERE is something always fas-cinating about the Ayrshire of their herds has been concerned. cow. She appeals to the rich as Just at the time of writing we have well as to the be-Ness, writing in the absence of Mr. Ness, who is in Scotland, and she says

because of her of them: "They will have nothing but comeliness, her ability to take mals for their herds." care of herself As is only to be expected, both of better than can these men took up some years ago the other breeds, and progressive work of keeping records because of her of daily milk production for their inversal practical districts. dividual cows; during recent years tility in making they have been qualifying their cows in the Canadian Record of Performance. Thus, to-day, having given attention to the production of their cattle, always demanding that their Ayrshires have good teats, and taking into the herd so many of the best imported stock, heifers and cows, as well as the superior imported herd sires, which they have purchased, they have in their herds and offer for sale a selection of stock probably diffi-

cult to surpass or equal elsewhere.

There is one handicap under which these men have worked, and this the location of their farms. They are located considerably out of the way respectively! While making use visits and inspecting the stock we gained a great deal of information and many photographs, which space spective buyers. The little village of Phillipsburg is a summering place on Missisquoi Bay, at the head of Lake Champlain. To reach it you take the Central Vermont Railway from Montreal, 52 miles to St. Armand Station; one of the farms, and you are at this terested in the pure-bred Ayrshires Ayrshire centre. As a matter of fact about the same time, and being good the ideal situation of both the Lakeneighbors, they did as good neighbors side and the Ravensdale stock farms We priced some most desirdams. We were surprised at the low Their latest purchase in the way price asked. We noted a goodly num-Ayrshire male last year at Toronto, opportunity they would afford for f Howick, Que., who is so well and several breeders who may now be

# A STORY IN WORD AND PICTURE OF TWO SUSSIFUL AND PROGRESSIVE AYRSHIRE BREEDERS

Men who, for over ten years have been at the business of breeding thest in Ayrshire Cattle and lately qualifying them in the Canadian Record of Performance. Foundation stock purchased from the best available and suplented year by year since with the choicest brought out by that noted importer

many years' experience. He, along have given over 10,000 lbs. of milk, with Mr. Montgomery, is right up on while qualifying in the Record of the breeding of Ayrshires, too. As a Performance, and several between consequence this herd has had the 9,000 lbs. and 10,000 lbs. of milk in constraints in the several between consequence this herd has had the 9,000 lbs. and 10,000 lbs. of milk in business man's as well as that of the ed outside of the county fairs save at practical breeder and feeder. Mr. one time a couple of years ago, when Kay lives right at home on his farm; they went to Sherbrooke and captured his father had it before him. He their goodly share of the best prizes now represents his own constituency offering.

of Missisquoi, Que., in the House of The bull, Auchenbrain Sea Foam, Commons, or as you might nut it. he was in this herd at the time of our

of Missiagoi, Que., in the House of Commons, or as you might put it, he is an M.P.

The bull, Auchenbrain Sea Foam, was in this herd at the time of our visit. He headed Mr. R. R. Ness's Junior Ayrshire herd at Toronto and 250 acres of the finest arable soil at Ottawa last fall, Mr. Ness having

and breeder, R. R. Ness, of Howick, Quebec. The Barcheskies, The Hot Mains, The Authenbrains, etc., and right royally good blood predominates throughout the herds. Information and photographs secured by additor of Farm and Dairy, who visited these farms two weeks ago.

we noted a young bull a year old last strong cow, deep and of good size, we noted a young bull a year old last strong cow, deep and of good size, November from the imported cow possessing the desired type, and has a Barcheskie Derby, now qualified in pleasing level udder, as indeed has R.O.P. This fellow is sired by Bar practically all of the stock in the R.O.P. This fellow is sired by Bar-cheskic Cheerful Boy. He is straight Lakeside and also in the Ravensdale and deep and of great length, excel-herds. lent in heart girth, and with a head ient :n heart girth, and with a head just such a one as you would like. An of Glenora, the first cow Mr. Montother young bull over a year old is gomery bought when starting, and her out of the imported cow Morton daughter, Snowdrop of Glenora, and Mains Greenside, and by Cheerful heavy the stable mate. He working cattle and very attractive, dam gave milk enough to nuality is working cattle and very attractive,

We'd like to describe in detail Sallie dam gave milk enough to qualify as a with udders pleasing in shape, and of two-year-old — something over 7,300 such quality that when milked out



Partial View of the Buildings at Ravensdale Stock Farm.-W. F. Kay, M. P.

mention here.

Then Mr. Montgomery is into horses also, pure-bred Clydosdales being his favorites We noted in his stables a dandy pair of Clydosdale mares, which Mr. Noss brought over.

One of these is Rose of Lee, in feal by Baron Barleighe, a son of Baron's Pride: the other Rose Company. Pride; the other Rose Cooper. Her Prince; the other Rose Cooper. Her foal of last year, a horse colt by Sir Spencer, was also in the stable, he being an unusually good one, well put up, having a good set of legs, good bone, deep in the chest, well balanced and possessing a very nice full eye.

It was Mr. Kay and his Ayrshires of Performance. we journeyed especially to Phillipsburg to see. It was through his kindly interest that we went over his kindly interest that we went over to the Lakeside Stock Farm and got the foregoing information about the Ayrshires there as well. Mr. Kay was Ayrantes there as well. Mr. Kay was home during the Easter recess of Parliament. When we arrived he had just come in from a ride on his Thoroughbred stallion, Floral King a great racer in his day, and of the kindest disposition. Since we found Mr. Kay in his new horse stable we first looked over his Thoroughbreds and then his pure-bred Clydesdale mares and the stallion Baron Barleigh, by Baron's Pride. He works Clydesdale to look at.

Clydesdate to 100a as.

Having looked over the horses we repaired to the Ravensdale comfortably-fitted stable, where the Ayr-shires are quartered; and they are a to Mr. Ness. Mr. Kay especially shires are quartered; and they are a to Mr. Ness. Mr. May especially dandy lot. Many times the space we wants to get rid of these two as he have available would be required to needs the room. He priced them away adequately set forth the merits of the down at only \$75 each. In bull calves Ravensdale Ayrahires in which Mr. Kay takes such delight and makes his profit. On entering the stable the first one we noticed was Giory of Ravensdale, a four-year-old, qualified ported cow mentioned before, and last year with her first calf. She is which is now piling up a good record. a cow of Mr. Kay's own raising. She in R.O.P. and making her is a thick, strong heifer, and can do the work as the Record of Performing apecially good. One is out of Rose of Senniville. an R.O.P. cow, over and again as a tree-year-old at Sheri imported cow Barcheskie Lady Marpleasing individual of correct type. One over some pleasing individual of correct type. One milk in one year, a strong prooke, and qualified in R.O.P. with garet, also of approved Ayrshire type under the property of the

thing of approved conformation, two the imported 'Little Kilmorry Gwenthing of approved conformation, two the imported "Little Kilmorry Gwen-years old; the imported cows, Ardine doline"—the very low-set, thick, Pomona, and Morton Mains Green-straight kind, and her daughter, her side, both qualified as two-year-olds in first calf next her; the two-year-old side, both qualined as two-year-olds in arst call next her; the two-year-old RO.P., a right good kind to buy, Ravensdale Lovely Rose, out of the deep and straight, long in the quarter imported cow Barcheskie Favorite and just the kind that a person would Rose, also in the stable and which had and just the kind that a person would want for a mother to a bull he would buy (the latter is the dam of one of the yearling bulls offered for sale); another imported heifer, Netherhall Kate, bought at the Ormstown sale last year; Cygnet of the Willows, a good stamp of a heifer and a great milker, qualified with over 9,000 lbs. milk: many others too numerous to milk; many others too numerous to mention here.

Instration it is the correct type and it is being proved doubly correct by the splendid records Mr. Kay is piling up in the Record of Performance

The young heifer calf from the last mentioned cow is from Barcheskie Cheerful Boy, four of his heifers being in the herd, they all being of a most excellent kind. Morton Mains Kater-ina, a four-year-old is another of his imported cows, as is also Morton Mains Glamourie, very typy Ayshires, very low-set, and therefore giving a little suspicion of being under size. These are now running in the Record imported cows, as is also Morton

The stock bull kept at this herd is Hobbsland Jolly whose photo we took and reproduce with this article. You can see that he is a grand breeding bull with wonderful strength of con stitution, lots of size and showing masculinity to that extent where it robs him slightly of that uniformity of balance, which he might otherwise have. He was imported by Mr. Ness

Several bull calves attracted our attention particularly for being re-markably good and of such excellent breeding from R.O.P. dams. One of these is 18 months old, by Barcheskie Cheerful Boy and out of Clarice of Ravensdale, one of Mr. Kay's own breeding and qualified as a two-yearleigh, by Baron's Fride. He works these right along seen to the stal-old, with 7,600 lbs. milk in R.O.P. Ilion, which is a really good worker. He is a well-developed, strong-constinon, which is a real year of the is a went developed in besides being all you would want in a tutioned bull, straight and good in tions and names of others write Mr

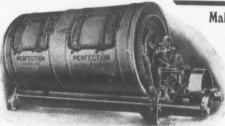
> While there is much that is worthy of note about the older Ayrshires in this herd there is even much more occasion for comment on the younger stuff. The heifers and heifer calves are a very worthy lot. We might take columns to properly mention and describe a Peter Pan two-year-old heifer, and Buchan Norah, Ravens-



The Ayrshire Cattle at "Lakeside" and at "Ravensdale" are of the very but brust and from Imported Stock of which the above individuals are representative The Ayrshire Cattle at "Lakeside" and at "Ravensdate" are of the very being and from Imported Stock of which the above individuals are representative. It is over 10 years since Mr. May commenced the breeding of hele earn lines on their respective farms at Philipsburg, Que. They have always worked in together ordinarily would care to purchase. The result is to-day evident in several they have be tide after it advantage of the best stock available, using bulle better than any one breeder ordinarily would care to purchase. The result is to-day evident in several tides of the several to the several tides of the sev

lbs. Space does not permit us to show limp and loose like an old rag; mention all of the other bulls, some Betsy of Lakeside. a daughter of Bess 10 in number, which we noted as being specially good. One is out of Rose won first with her as a two-year-old of Senniville, an R.O.P. cow, over and again as a three-year-old at Sher-Another is out of Caprice of Lakes side, a grand, strong, big, well-developed two-year-old, of good type relatively on the constant of the constant grand gr R. R. Ness; ner grandmother, uar- gran, seep one, or correct type, as greater delight to look these cattle chaugh Enchantress, being in the you may see from her photograph restable and now a cow about 12 years produced in connection with this ar- Since we must hurry along we shall old, having been imported by Robt. ticle; a helier out of Barcheskie give but briefest mention to Shella of Hunter & Sons, Maxville, and is a Derby, and by Cheerful Boy, a sweet Ravenedale, Ravenedale, Ravenedale Snowdrop;

(Continued on page 36)



Make Greater Profits from Butter

just a mere living from your Butter Profits. Get the very highest prices for your product.

The "Beaver" Churn uses very little power when operating and all gearing is at one end and easily accessible—a great time saving feature.

With a "Beaver" Churn, you get "More and Better Butter, and Greater Profits." Write us to-day for complete information about it. Mail a card addressed: Dept. B.

W. A. DRUMMOND & CO., King St. East, TORONTO, Ont. (Creamery and Dairy Supplies)

OFIL

Lessens Fire Risks-Cuts Down Insurance

Fire Insurance Companies rate RU-BER-OID Roofing as "First-Class", and insure at the "base" or lowest rate buildings covered with it. RU-BER-OID will not catch fire from flying cinders or burning brands, and the one-

piece, air-tight, fire-resisting RU-BER-OID Roof helps to smother a fire starting within.

KA-LOR-OID (Colored RU-BER-OID) has the same fire-resisting qualities, and in its soft, permanent shades of Red and Green it makes most attractive roofs.



BEWARE INITATIONS ONE GENUINE UNLESS THE

APPEARS ON WRAPPER



¶ Every farmer is a large buyer and seller—and whether he is buying feeding stuffs, fertilizers, seed, etc., or selling live stock, grain and potatoes—unless he has a Scale on the Farm he cannot tell whether or not he is the victim of short weight.

Short weights on purchases and sales soon take the cream off the farm profits. But a Wilson Scale places the Farmer's business on a business-like foundation.

¶ Every farm will pay a profit if all the profit is received but what farm can stand constant leakage of a few pounds here and a few pounds there? Is it any wonder that profits are some-

times consider-THIS BOOK FREE they cught to be.



Perhaps this "leakage" thought is new to you.
Perhaps you have grown accustomed to letting others do the weighing for you.
Perhaps you have grown accustomed to letting others do the weighing for your share of perting your share of profits. You will be interested in our book "How to Stop the Leaks," which we are willing to send free to Famers.
Do not let another season pass. Stop the leaks now. Send for your copy to-day.

93 ESPLANADE EAST



You can do this without

extra expense to yourself. The "Beaver" Combined The "Beaver" Combined Churn and Butter Worker opens the way for you. It is so carefully built that it does away with all loss and waste. You know just when to take out your batch of butter.

Do not be satisfied with

\*\*\*\*\*\*\*\*\*\*\* Creamery Department Butter makers are invited to send contributions to this department, to ask questions on matter relating to butter making an too suggest subjects for discussion. Address subjects for discussion. Address letters to Creamery D Dartment

\*\*\*\*\*\*\*\*\* Creamery Problems

Creamery Problems
Frank Herns, Chief Instructor for
Western Ontorio.
The creamery industry in Western
Ontario are judy expanding, especially in the problem of the period ritory of competing creameries will be narrowed to the point where, in some cases at least, the output will not be sufficient to insure a profit-able business. It is to be hoped the able business. It is to be hoped the creamery industry will not suffer from the mistake made in the cheese indus-try which in some sections of Ontario built too many small cheese factories. Possibly one commendable feature of the smaller factory is that less ground ritory of competing creameries will the smaller factory is that less ground the smaller factory is that less ground will be covered by each wagon which should mean more frequent collec-tions. This should tend towards a better quality of cream.

If the cream could all be pasteur-ized it would improve the quality of the butter. Pasteurization will be encouraged through a better and cheaper method of cooling the cream

encouraged unrough a better and cheaper method of cooling the cream than that now in use. In some instances where creameries have started in sections formerly given over to home dairy buttermaking, most of the cream is sent only during the warm weather. This issure-ly a mistake as it makes the creamery season too short, increases the cost of manufacturing and throws qualities of home dairy butter (often of poor quality) on the market during the syring and fall months, which serious approach and the second that the second the price of good butter. It is also not considered that the second the price of good butter. It is also not considered the second that the sec

GOOD BUTTER IS CREAMERY MADE
The present creamery system is
based on the constantly increasing
and insistent demand for butter of and insistent demand for butter of uniform quality and such better can best be produced in the creamery. Some farm dairies turn out good butter that finds satisfied consumers, but when the cream can be sent to the creamery and there made into butter creamery and there made into butter of uniform quality by an experienced but that it is in the best interests of cream producers to patronize the local creamery during the whole season.

son.

If the patrons will visit the cream-ery occasionally, see the cream tested and encourage the buttermaker to excry occasionally, see the cream tested and encourage the buttermaker to explain points on which the patron is in doubt the differences which sometimes arise between patron and buttermaker would soon disappear. Variations in the test of cream from month to month are almost bound to occur and if the patron will study the causes of these variations he will conclude that the test is not always to blame. The ohief causes are: Variations in the per cent. of fat in the milk, inflow, temperature, speed of machine and quantity of flush water.

WIDE VARIATION IN PRODUCTION

WIDE VARIATION IN PRODUCTION

The old creamery sections many proper the great possibilities for increasing the

April third to

producti tation p There The 1 fat per e

25 to 50 48 produ ed 75 to £125 lbs... lbs. of fi This p provement from the tention milk an skim mil

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M. F. I realiz subject in maker and siderable of parts of ( cream systematic continued ing a flagrade of a disadvanta weary of told us bef date in the likely to be tion and c

grading: ed the Fo a dairy con December. view, of in tem. Noti patrons are est Creame

The grad introduced vince where common. is one of th Ontario cr put forth. ried on suc

authorities

occurs

(25)

tation period.

There were 125 herds and 752 cows.

The highest average lbs. of milk fat per cow per herd was 187.5.

Forty-eight herds produced between 25 to 50 lbs. of fat per cow per herd; 48 produced 50 to 75 lbs.; 22 produced 175 to 100 lbs.; six produced 100 to 252 lbs., and some produced over 125 lbs., and some produced over 125 lbs.; bit points out to 150 lbs.; six produced 100 lbs.; s

227 bs., and some produced over 125 iss of fat.

This points out in no uncertain way the wide field that is open for improvement in increased production meaning would in time build up here's that would average doubte the quantity of milk and fat per cow and furnish skim milk to raise a still larger number of young steck for beef purposes. There is probably no more important work to be done in creamery sections

cream grading, we should not hesitate to advocate it to our patrons. We hope, that in the near future. Ontario creamerywen and patrons will favor its unanimous adoption

### Why Tests are Low

By "Butter Boy," Victoria Co., Ont. Cream tests will soon be going down. Patrons will be kicking. It always seemed funny to me that pa-trons could never understand why their tests should go down and at the same time it always seems the most reasonable thing in the world to them that their tests should go up. I have never yet had any trouble in explaining to a man just why his tests went But to me one is just as funny as the other.

Of course it is easy to understand why the test does go down from now on. Cows are freshening everywhere,



A Dual Purpose Factory such as is Ever Becoming More Common

The growth in winter dairying has made a winter market for milk and cream necessary. This market is best supplied in many districts by a combined chose and butter factory such as the Quinte factory of Prince Edward Co. Ont. here all limstered.

Illustrated.

### The Need for Cream Grading

M. F. Jackson, Brant Co., Ont.

I realize that cream grading is a subject in regard to which both the subject in regard to which both one maker and the patrons will need con-siderable education, especially in the parts of Ontario where the gathered parts of Uniario where the gathered cream system was established and continued on the old method of pay-ing a flat price regardless of the grade of sweetness. Considering these disadvantages we should not become weary of well doing, as history has told us before, that new reforms come slowly. I believe if we are up-to-date in the manufacturies and of the date in the manufacturing end of the business, our patrons will be more likely to be progressive in the produc-

likely to be progressive in the production and care of raw material.

Coming back to the subject of cream grading: last November I persuaded the Forest Creamery Co. to hold a dairy campaign in the month of December, with the chief object in view, of introducing the grading system. Nothing definite was done at our meetings regarding the grading system, but I am satisfied that our patrons are in a better position to accompany to the progression of the progression of the produced that the produced in the produced that the produced in the produced that the produced th patrons are in a better position to accept a grading system, when the Forest Creamery Co. sees fit to introduce it, than they were before our cam-

The grading system is convincing in itself from the fact that it is being introduced and carried on in a province where extremely long hauls are common. The matter of long hauls is one of the chief objections that the Ontario creamerymen and patrons put forth. If this system can be car-ried on successfully in Alberta, why not in Ontario?

It occurs to me that when dairy silo.
authorities agree on such a subject as Ont.

than that of convincing the producers milk is not as rich as it was a month of the possibilities and value of cow or so ago, while the cross while the cross and the convention of the possibilities and value of cow or so ago, while the cross of the cros or so ago, while the cream screw in the separator remains at the same old place. Consequently, the cream is, proportionately with the milk, poorer in fat. I also believe that in poorer in fat. I also believe that in winter the milk is colder when separ-ated and that cold milk gives a thick-er cream than does the warm milk al-though there is a greater waste of fat in the skim milk. We know these facts perfectly, but what are we going to do with the patron who doesn't or won't understand them?

One of the mistakes that butter One of the mistakes that butter makers are making is to keep the pa-tron in ignorance of his declining test until the end of the month and tell him. If he is of a particularly pugna-cious character there will then be trouble right away. Most of us are cious character there will then be trouble right away. Most of us are connected with our patrons by 'phone and I always make a practice of let-ting the patrons know through the month how his test is going. I have some patrons whom I know will make a fuse whom the total. a fuss when the test declines, and a fuss when the test declines, and al-ways keep a dup'icate test bottle for them so that, if necessary, they can see their cream tested right before

Patrons should understand that the dishonest buttermaker is not the one who allows their test to decline in the spring or from month to month, but spring or from month to month, but the one who gives them the same test, or approximately the same test right along. It is natural that the tests should vary. A uniform test all the year round is apt to be an indication of dishonesty.

The silo and dairying should go together. On Wofe Island in this county there are 30,000 acres. All the land is good for dairying and yet on the whole area there is only one also.—A. Rankin, Frontenac Co.,

SELL WORLD RENOWNED **EMPIRE** 

Cream Separators and **STA-RITE Gasoline Engines** 

MAKE MONE

AHE demand for our machines is so great that we must run our factory nights and must establish more local agents to take care of our customers.

agents to take cate or our customers.

If you want money—real money—you can
make it selling EMPIRE Cream Separators
and STA-RITE Engines. No others sell
so easily, or give such good service.
Canada is speedily becoming a great dairy

Other things fail but dairying does not.

Prices of wheat and other products are uncertain but prices for dairy products are
steadily rising.

Dairymen must have separators and engines. No other separator runs oe asily or quietly as the EMPIKE. No other needs so little attention or so few repairs. You know these tention or so few repairs. You know these was the engineer of the e Dairymen must have separators and engines.



THE EMPIRE CREAM SEPARATOR CO., LTD.

Creamery For Sale

**Agents Wanted** Oreamery, running summer and winter. Very lerge make. Everything in fluviolass order, refer make. Everything in fluviolass order, refer make. Everything in fluviolass and refrigerator. Large stable with sluve and other buildings. 6 acres good land. Close to town and railroad. This is one of the best dairy districts in Ontario. Write NELSON SCHATZ. - BADEN, ONT. A man wanted in every dairy district to collect renewals and get new subscriptions. Hustlers needed who will cover the district thoroughly by spring. State occupation and if can work entire or spare time.

FARM AND DAIRY, Peterboro



Revolutions



HAT is the wonderful speed at which an IHC THAT is the wonderful speed at which an IHC separator bowl turns. The rim of a six-inch bowl, running at separating speed, is traveling at the rate of nearly two and a half miles a minute, faster than the swiftest express in that ever ran. Such speed as this means strain on shafts, bearings, and a separator, such strain as can only be rendered harmers and such seast adjustment of strength, flexibility, and quality of material and weest adjustment of strength, flexibility, and quality of material and weest adjustment of strength, of this its must be made mechanically right, or it soon ceases to be useful as a separator. The machine that meets these conditions and sells at the right torice is an useful as a separator. The sells at the right price is an

> IHC Cream Separator Bluebell or Dairymaid

I H C separators have that carefulness of adjustment and balancing of moving parts which make for durability and easy running.

There are points in the construction of I H C separators, such as the heavy phosphor bronze bushings, trouble-proof need bearing, cut-away wings, durit and mills-proof spiral gears, etc., which make I H C separators, beyond any doubt, the best of all to buy. There are four convenients of the construction of the convenient of the con

International Harvester Company of Canada, Ltd BRANCH HOUSES At Brandon, Calgary, Edmonton, Estevan, Hamilton, Lethbridge, London, Montreal, N. Battleford, Ottawa, Quebec, Regins, Saskatoon, St. John, Winnipeg, Yorkton



IRON AGE Wheel Hoes of

The Bateman-Wilkinson Co., Limited

Highest Price for Cream I.-We supply cans and pay express

II -Test every shipment upon arrival and send a statement for same.

III.—Pay every two weeks and cash checks at par. the cast par.

It costs you nothing whatever to give our system a trial.

Let us send you a can and enable rou to try a few shipments.

For fuller particulars write

The Berlin Creamery Co. Ontario

CREAM WANTED Highest Oity prices furnish cans, pay all charges, remit promptly. Haven't paid less than 32c for two months. Write TORONTO CREAMERY CO., I.TD., Toronto

### Cheesemakers

Mr. Ballantyne's prediction that within five years Canadian exports of dairy produce will cease, threatens to come true. Butter, once an imto come true. Butter, once an important tiem in our export trade and already ceased to leare Canadian ports and instead thousands of will be brought in from the United States and from New Zealand this year. Figures furnished by the dairy year. and cold storage commissioner show a serious decline in our cheese exports for 1912 as compared with previous

Many factors may be brought forward to account for our declining exports, but I believe that one of the factors seriously hindering our forfactors seriously hindering our for-eign trade is that we are not produc-ing the right quality of goods. It is a well-known fact that Danish and Irish butter were both preferred to Irish butter were both preferred to Canadian and quotations sent out by leading dealers on the other side, show that now New Zealand cheese sells at a premium over the Canadian The green cheese evil is slowly but surely giving the New Zealand pro-

CREAMENT CO., LTD., Toronto

Semakers

Make big money in your sparse time get time general majority of our cheeses. In hot weather the who hold cheese. In hot weather the who hold cheese. In hot weather the who hold cheese in hot end to hold cheese. In hot weather the who hold cheese in hot weather the who hold cheese in hot weather the who hold partitional to the cheese as in page as soon as possible when there are still green and before they have been appared to the cheese as the page of the cheese and page of the cheese as the page of the page of the page of the cheese as the page of th duct an entrance on English markets.

FARMER'S GARDEN

S. without real serious meaning to be the control of the installation of a cool-curing room by this transfer because the installation of a cool-curing room to cool-curing room to the installation of a cool-curing room to cool curing room to cool-curing room to cool-c

I do not believe that factory needs I do not believe that factory needs to be as large as some people think to make a cool-curing room a profitable makes a cool-curing room and profitable factory that the pairs Division. Ottawa, has told me that a 30-ton factory can well afford that a 30-ton factory can well afford that a 30-ton factory can well afford to install a cool-curing room and can easily pay off principal and interest in three or four years. Patrons and proprietors of factories would do well to get together to discuss this subject of cool-curing and begind the property of polying the property of the property of the property of easily the property of the property of the property of the property of experience of the property of th

### An Old Country Opinion

Lovell & Christmas, London, Eng. In our opinion, the quality of Canadian scheese in 1912 was not equal to that of previous seasons, the September and October makes, espec-September and October makes, espec-ially, leaving much to be desired. The most noticeable defects were lose-ness of texture and excess of moistness of texture and excess of moisture, which caused great shrinkage.
The cheese did not improve the keeping iif, in many instances developing ill flavor. We consider that his result is attributable, in a large measure, to the extremely wet season which was remained.

the extremely wet season which was exceptioned.

We may add that similar defects to those found in the Canadian cheese have also been present in the New Zealand cheese this season, the majority of which have contained an excess of moisture, causing the tex-

GILSON ENGINE GOES LIKE SIXTY



Anybody can operate the simple "GOES LIKE SIXTY Energy Ready for work the moment you get it. Ready for work the moment you get it. The simple expense, plutely guaranteed. You ny your own farm before set-Every engine absolutely guaranteed. 101 in try this engine on your own farm before set ing for it. You take no chances. The "GOES LIKE SIXTY" Line has an enine for every purpose. All styles and sizes from GILSON MANUFACTURING CO., LIMITED

### 98 York Street, GUELPH, ONT "FARM DAVIES" WAY"

THE WILLIAM DAVIES CO., LTD.

CRUMB'S IMPROVED STANCHION



Message to Cheese-makers

THE life of the average Cheese-maker is not exactly a bed of Roses. His troubles are many and constant. Not the least of these troubles is giving each patron his proper supply of whey -no more and no less. Another trouble has to do with keeping the cheese-vat sweet and wholesome. Other troubles relate to the actual making of the cheese—the problem being at all times how to make the best cheese at the lowest cost and with the least trouble. We claim that the Cheese-Maker's troubles and problems are very satisfactorily solved by

WEED" DAIRY APPLIANCES

N this advertisement are given brief particulars relating to four equipments which are worthy in every respect. They represent the best mech

anisms yet produced for the making of high quality cheese and for lessening the Cheese-Maker's lessening the Cheese-Maker's troubles. These equipments may be described as

Sanitary Modern

"Leal's" Steam Agitator THE "Leal" Milk Agitator does away with



'Tweed" Steel Cheese Vats MADE entirely of Steel, no wood to rot out in AVA no wood to rot out in a season. Easy to keep clean and sweet. Perfectly Sariitary. No places for the milk to lodge in or decommits to lodge in or decommend around under laps over and around under laps over and around the laps over the latest to work on. Pitted with goars at each out so can be raised or lowered inch, by raised or lowered inch, by lover, by lovers. Prices quoted on application.



"Tweed" Steel Whey Tank

THE "Tweed" tank will hold when you is a satisfactory manner. It is Sanitary and can be kept clean with little trouble-very important in this day of rigid Government inspection.

Made of '4-inch steel boiler plate. Will last 25 years, and so the best investment any factory can make.



The "Hohnsbehn Automatic Skim-Milk Weigher

THE Hohnsbehn Automat-THE Hohnsbehn Automatic ic Skim Milk Weigher will weigh whey as accurate to an be done on a seale. The Cheese-Maker supplies each part on with cheese representing the roun with cheese representing the round of a sealer of the sealer of the result of the

We draw particular attention to Hobisbehn's Automatic Skim Milk Weigher. Literally it is the patron a friend. Where this device is in-stalled, no auton can draw more belief progreg quantity of whey. By the old method the patron helps himself is progreg quantity of whey. By proper share, and some—the late concer-getting ling more than their proper share, and some—the late concer-getting ling more matching. The Holinsbehn Whey Weigher doesn't cheat, but treats all all

Send for Complete Catalogue of "Tweed" Dairy Appliances, "Tweed "made equipments can be relied upon in every respect; they are sanitary, modern and of the best quality.

THE "Leal" Milk Agitator does away with the usual costly equipment, and is therefore well within the result of the state o The Steel Trough & Machine Co., Limited of one man.

No engine—no line shaft—no pulleys and not belting required. Run at any speed.

ture to shrinka be hop will be son's n large la prices t

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Two Shall be aller farmer antee th be paid Royal C vestigate ern Ont Ottawa the losse over \$1 have los Faith su cheese p

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"Two r farmer frome as bei one is the compelling buying of an 'unace marked 'ac make it a merchant t cheese befo in the afor the part of able by 'fis ing mercha

the amount plan of co bonds is no farm produ shipment is Western Pr katchewan out West t very much dairy farme The only di grower ship two shipmer while the de shipments co difference in products so THE

"Previous farmers lost ers. They a legislation, any grain de m'ssion mere

prices to rule as compared with 1911.

### Two Methods of Protection

Shall irresponsible cheese merchants be allowed to deal longer with the farmer without giving a better guar-antee that the cheese purchased will be paid for? Speaking before the antee that the cheese purchased will be paid for? Speaking before the Royal Commission appointed to vestigate the cheese business of East-ern Ontario, Mr. R. B. Faith, of the Ottawa Valley Journal, estimated the losses due to the failure of cheese buyers during the last 15 years at over \$1.000,000, of which farmers have lost more than one-half. Mr. Faith suggested two methods in which cheese producers might be protected. cheese producers might be protected.
Mr. Faith said:

ture to be loose and open and the shrinkage to be very great. It is to shipment to do business without first be 'hoped that the faults mentioned will be remedied in the coming season's make of Canadian cheese.

The English home make was very transact.

"It will not go into detail as the "It will

transact.

"I will not go into detail as the matter is fully covered in the Grain Act, which amended up to 1910 fully protects the Western farmer from coses through failures. Or fellow-farmers in the West ship their gelow-farmers in the West ship their grain with perfect safety to the dealers and Winnipeg. Port Arthur and Fort William. the Government bond protecting them in the event of the dealer failure in business.

ing in business.
"Since the Government has seen fit "Since the Government has seen fit to come to the rescue of the Western grain grower, providing legislation practically making losses impossible, thousands of dairymen in Eastern Ontario and Western Quebec feel that they are entitled to similar protec-tion, both industries being identical in method of marketing and bringing in the same amount of wealth in pro-



Fully Equipped to do the Square Thing by the Cheesemaker

In the foreground may be seen Mr. J. A. Anderson, Stormont Co., Ont., and his covered milk house. In the background to the left is the ice house. Mr. Anderson is prepared to eliminate his share of the 30 per cent of defects in cheese that are attributed to the carelessness of patrons.

is preserved to eliminate his share of the 50 per cout of defects in cheese that are attributed to the carelessness of patrons.

'Two methods of protecting the farmer from loses have appealed to me as being fairly practicable. The one is that lezislation be enacted compelling merchants engaged in the buying of cheese to send instead of an 'unaccepted' cheque, a cheque marked 'accepted' by their bank, and make it a criminal offence for any merchant to sell or dispose of any cheese before it has been paid for as the part of the cheese. In seller to the part of the cheese he melcet on the part of the cheese he melcet on the part of the cheese. In seller to make the production in order to the part of the cheese has been paid for as the part of the cheese. The part of the cheese has been paid for as the part of the cheese house over the part of the cheese house of the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the cheese has been paid for as the part of the part o

out West transact their business on very much the same basis that the dairy farmers do here in the East. The only difference is that the grain grower ships all his wheat in one or two shipments in the fall of the year, while the dairy farmer makes weekly shipments covering a period of six to eight months. This makes the only difference in the marketing of the two products so far as payment is concerned.

### THE WEST GETS RELIEF

"Previous to 1901 the Western farmers lost considerable money an-nually through failures of grain dealers. They asked for protection, and the Dominion Government enacted the Dominion Government enacted legislation, making it impossible for any grain dealer, track buyer or com-mission merchant who does not pay

er. Some farmers have gone out of cows entirely. The tendency is to-wards fewer cows and better cows. We would keep more cows if we had the labor."—Jas. Shelton, Middlesex

"There is plenty of feed, stock is in good shape and we expect an aver-age make."—Robt. McMillan, Mid-

age mase.—Root. McMillan, Middle ex Co.

"Prospects for the season are fairly good with the number of cows the same. Labor is very scarce."—J. W. Symington, Lambton Co.

I have worked in factories in both Eastern and Western Ontario and a weak point in Eastern factories that weak point in Eastern factories that I see is the lack of curd sinks. If you take the curds out of the vat into a sink you can control mixture to perfection, while in the vat you work in a puddle of whey.—J. E. Proudlov, Peterboro Co., Ont.

### Turn Waste Land into **Profit**



M P OW

A Well Cleared Field of Stumps Split so they will Burn Easily

YOU are losing money every day by allowing Stumps and Boulders to occupy the richest and most productive parts of your farm. Why not remove them with CXL Stumping Powder. The cheapest and quickest method known for clearing land.

Write To-day for our Free Booklet

CANADIAN EXPLOSIVES LIMITED MONTREAL, QUE. VICTORIA, B.C.

### CREAM CREAM

Sweet or Sour

We are buyers of Cream and will pay the highest price for it per dutter Fat test. We will supply the came. Make prompt returns by Bank raft, payable at par, at any Bank in any town. We will operate the year around. References Bank of Montreal.

THE BOWES COMPANY, Limited 74-76 Front Street E. Toronto

### The Record Breaker

HE Standard Gream Separator has justly been asked "The Record-Breaker" by creameries remarkable with the acceptance and some remarkable with the acceptance of the remarkable with the standard college, Guelph, at Dominion of Canada Experimental Farms, Ottawa, at Warton Greamery, and others. The report of the records made by the



at the Eastern Dairy School at Kingston, and at the Kerwood Cheese and Butter Factory, were published a short time ago. They prove that the Btandard Cream Separator was unequalled for closes-kinming. They go to show that right lace in Canada is made the "World's Greatest on Canada is made the "World's Greatest on Canada is made and the "World's Greatest on Canada is made to the control of the Canada Cream Separator write unliked by the Standard Cream Separator write us. We will gladly send you particulars.

But the best record of all, will be the record the Standard will make for you in everylast use in your dairy, experies the first standard for the standard standard standard standard standard standard in the standard sta

### The Renfrew Machinery Company, Limited

Head Office and Works: RENFREW, CANADA

Agencies Everywhere in Canada.

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THE pleasantest things in the world are pleasant thoughts, and the greatest art in life is to have as many of them as possible.-/. Foster.

### . . . Rose of Old Harpeth

By MARIA THOMPSON DAVIESS "Copyright, 1912, The Bobbs-Merrill Company" (Continued from last week)

N point of fact it was a thick and impenetrable veil that the Senator had for long hung before his face from behind which to view the face from behind which to view the world at large. And through his mouth, as through a rent in the smile, he was wont to pour out a volume of voice as musical in its drawl and intensified southern burr as the bass note on a well-seasoned

He was performing the obligato of a prohibition hymn for the group of farmers around him when he caught sight of Everett as he came across the street. Instantly his voice was the street. Instantly his voice was lowered to a honeyed conversational pitch as he came to the edge of the porch and held out a large, fat, white hand, into which Everett laid his own by courtesy perforced.
"I'm delighted to see you, Mr. Everett, suh, delighted!" he boomed.

Everett, suh, delighted!" he boomed.
"And in such evident improved
health. I inquired for you at Bolivar as soon as I returned and I was
informed that you had come over
here to find perfect restoration to
health in the salubrious climate of
this wonderful town of Sweetbriar.

this wonderful town of Sweetbriar. I'm glad to see your looks confirm the answer to my anxious inquiries. And is all well with you?"
"Thank you, Senator, I'm in pretty good shape again," answered Everett with a counter smile. "Ten pounds on and I'm in fighting trim."
"The wood were said approach."

pounds on and I'm in fighting trim." The words were said pleasauth, but for the life of him Everett could not control the hostility of a quick glance that apparently struck harmlessly against the veil of smiles. "That there ten pounds had oughter be twenty, Senator, at the rate of the Alloway feeding of him, from milkhouse to cellar preserve shelf," said Mr. Crabtree from behind the counter where he was doing up a pound of tea for the poet, who found it impossible to take his who found it impossible to take his eyes off the politician. "Miss Rose eyes off the politician. "Mes. Rose Mary ain't give me a glass of but-termilk for more'n a week, and they do say she has to keep a loaf handy in the milkhouse to feed him 'fore he gets as far as Miss Amandy and the kitchen. We're going to run him in a fattening race with Mis' Rucker's fancy red hog she's gitting ready for the State Fair and the new Potest habby young Master Tucker Potest of the State of

"So there's a new Poteet man, and named for my dear friend,
Mr. Alloway! My congratulations,
Mr. Poteet:" exclaimed the senator
as he pumped the awkward horny
hand of the embarrassed but proud hand of the embarrassed but proud Mr. Poteet up and down as if it were the handle of the town pump. "I must be sure to have an introduc-tion to the young man. Want to meet all the voters," he added, shak-ing out the smile vell with energy. And at this very opportune mo-

ment he looked down the Road and espied a procession of presentation approaching. The General in the midst of the Swarm was coming at a breaknets speed and clasped firmly in ,his arms he held a small blue bundle. On his right galloped Tobe with Shoofly swung at her usual dangerous angle on his hip, and Jennie Rucker supported his left wing, with stumbling Petic pulled along between her hand and that of small tween her hand and that of small tween her than the student of the rest of the Potect seven, the Ruckers and the Nickols, with Mrs. Suffier and the five little dogs bring-

ment he looked down the Road and

ing up the rear.
"Well, well, and what have we here?" exclaimed the great man as he descended and stood in front of

he descended and stood in front of the lined-up cohorts.

"It's the Poteet baby," answered "It's the Poteet baby," answered "It's the Poteet baby," as well as formed him to show you. He's go-ing to be a boy; they can't nothing change him now. Shoody is a girl, but Mis' Poteet didn't fool us this time. Besides if he'd been a wirl time. Besides if he'd been a wirl we wouldn't a-had him for nohing."

we wouldn't a-had him for nohing."
"Why, young man, you don't mean
to discredit the girls, to you?" demanded the Senator with effective the
propriating glance in the direction
of Jennie, Peggy and the
bunch of assorted pink and shue
little calico petticats. "Why could
anything be finer than a sweet little
girl?" And as he spoke he rested
his hand on Jennie's tow-pigtailed
head.

"Well, what's sweet got to do with well, what's sweet got to do with it if we've got too many of 'em?'' answered the General in his usual argumentative tone. "Till little Tucker comed they was three more Tucker comed they was three more girls than they was boys, and it wasn't fair. Now they is just two more, and four of Sniffle's puppies is boys, so that makes it most even until another one comes, what'll just have to be a boy." And the General cast a threatening glance in the direction of the calico bunch as he sessued this ultimatum to feminine Sweethriar.

issued this ultimatum to remine.
Sweetbriar.
"PII ask Maw," murmured Jennie
bashfully, but Miss Peggie turned up
her small nose and switched her
short skirts scornfully as the men

on the porch laughed and the Senator emitted a very roar in his boom-

to emitted a very roar in his booming bass.

It will be well have to settle that late. The said in his most propitating urge well well her was a be cast with the late. The said in his most propitating urge well well be well be well as smile over the carry the young. "Hadn't you better carry the young. "Hadn't you better carry the young and back to be restless," he further remarked, taking advantage of a slight souirm in which young Tucker indulged himself, though he was not at all uncomfortable in Stonie's arms, accustomed as he was to being transportationed as he was to being transported in any direction at any time by ed in any direction at any time by ed in any direction at any time by ed in self-ull hint of dismissal the Senator best down and bestowed the Senator best down and bestowed the this skilful hint of dismissal the Senator bent down and bestowed the imperative political kiss on the little pink Poteet head, smattered one or two over Shoofly and Pete, landed one on the tip of Jennie Rucker's one on the tip of Jehnie Rucker's little freckled nose and started them all up the Road in good order as he turned once more to the men in the

But the advent of the Swarm had served to remind the group of his friends that the time for the roof-tree gathering was fast approaching, and Mr. Crabbree was busy filling and Mr. Crabbree was busy filling half-forgotten supper orders for im-patient waiters, while most of the men had gone up or down the Road in the wake of the scattering Swarm. For a few minutes the Arabor and Everett were left on the porch steps

"I hear from some of the men that "I hear from some of the men that you have been able to do some prospecting in the last weeks, Mr. Fevreett," remarked the Senator, casually, from behind the veil, as he accepted and lighted a cigar. "Itst knocked around a bit," and "The whole Mississippi Valley is interesting geologically. There is quite a promise of oil here, but practically no outcrop."

"Your examination been pretty thorough—professional?" queried the Senator, still in an equally careless voice, though his little eyes gleamed out of their slits.

(Continued on page 34)



Your Examination Been Pretty Thorough?

m-

ro-

d.

# 

Are We Growing in Grace? The Lord make you to increase and abound in love one toward another and toward all men, even as we do toward you.—I Thess., 3:12.

Do we pause frequently along the pathway of life to ask ourselves whether or not we are growing spiritually or deteriorating? As in any other kind of work it is impossible to be at a standstill in God's work. When we accomplish some good thing in this world, do we not sometimes stop to congratulate ourselves in that we have done something to lighten another's burden or have made the way brighter, for a short time at least, for someone? Then is there not a sometime of the congratulate of the congratula Christ we will realize that our best is but a step forward towards making us but a step forward towards making us more like Him. We see all through the world to-day that it is the men and women who accomplish most who are honored with the heaviest respon-

We know that no two people are low:

fashioned alike; therefore, we can Oh, heart of mine, we shouldn't worry
readily see that each one has his own so,

The Upward Look steady advance. For instance, some What we've missed of calm we couldn't have, you know, steady advance. For instance, some What we've met of stormy pain, must be improved if he is to make a steady advance. For instance, some of us may be inclined more than others to selfishness. We do not like to admit this fault; but if we do realize admit this fault; but if we do realize our shortcomings what a vast field lies before us we may in-crease, not in selfaths, but in self-sacrifice. It is only by the self-sacrifice. It is only by the self-our outlook and seeking to live or others that we will be able to over-come this obstacle of thinking only of our own petty desires. If we de-sire to help others we must get away from self and study our fellow-crea-tures—their surroundings and their tures,—their surroundings and their characters before we can accomplish the greatest good.

Another way in which we may ad-Another way in which we may advance is in cultivating our minds to look on the bright side instead of the dark. We are all prone to cross the dark. We are all prone to cross the bridges before we come to them. We may unconsciously let fall little words of discontent that, while they may be in our minds only for the moment, leave an impression on those moment, leave an impression on those around ur and cause them also to look on the dark side. On the other hand, on the dark side. On the other hand, we never know the boundless good we may do by being optimistic ourselves may destriving to get others to see the silver lining of the clouds. James Whitcomb Riley forcibly expresses this idea in his little poem, "Just be Glad," a part of which we quote below:

have, you know.
What we've met of stormy pain,
And of sorrow's driving rain,
We can better meet again,

For, we know not every morrow can be sad; So, forgetting all the sorrow we have

had,
Let us fold away our fears
And put by our foolish tears,
And through all the coming years
Just be glad. had

-R. M. M.

### The Opening of Spring By Ella G. Flanders

The crocuses are budded, the early The crocuses are budded, the early birds are calling, the brook is singing on its way and something tells me even though the winds haven't lost their icy chill, that spring is on the

To those born and bred on a farm the early spring days bring with them a desire for labor and out-door them a desire for labor and out-door work. It has been my custom to plant each year something that will be permanent in the flower garden, and as I look out upon the hedge row of hardy roses, the lilacs, laburnum and honeysuckles that have been and noneysuckies that have been planted from time to time there is a feeling of satisfaction, for they serve as land-marks for the passing years, and by their fragrance and beauty bind us more closely to our homes.

Many of the old-fashioned flowers are coming into their own in these days, and receiving more attention than many varieties of late introduction. Among them the hollyhock is a favorite—and in clumps, hedge rows and as screens to hide unsightly rows and as recens to hide unsightly places they have no equal. Although regarded as pereunials, and non-regarded as pereunials, and non-regarded in the house this month and transplanted as soon as danger from frost is over they will often bloom the first season. I have found they are not always true to seed but they are not always true to seed but. bloom the first season. I have found they are not always true to seed, but many of the sports are of wonderful-ly delicate shades and colors and are often as desirable as the standard varieties.

. . . Mold can be kept from the top of preserves by putting a few drops of glycerine around the edges of the jar before screwing on the cover

27 St 55 If it is necessary to catch the If it is necessary to catch the thread through the right side when sewing hooks on dresses, a neat fin-ish may be obtained by making French knots where the threads ap-. . .

When hemming children's dresses on the machine use a fine cotton, No. 90 or 100; then, when hems or tucks must be ripped to lengthen the dresses, you will find the fine thread easy to rip. Often a quick jerk will be all that is necessary to pull it out.



Add water to milk-You weaken the milk. Add soft wheat to flour-You weaken your flour. Cheapens it too.

Soft wheat costs less-worth less. Soft wheat flour has less gluten less nutriment.

Your bread is less nutritious, sustaining, economical.

Soft flour has less strength, less quality gluten. Giving less good things for your money and

things less good.
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ADDRESS	
PROVINCE	

NAME

### A Canadian Farm Home

Time was when "conveniences" and Time was when "conveniences" and "the city" were mentioned in the same breath. Such however, is no longer the case. We have found that the farm home is exactly what we make it. Today, at the price of a new binder the farmer can equip his home with many conveniences that new binder the farmer can equip no home with many conveniences that make life more livable for the whole family and house work much easier for the wife or mother. There are family and house work much easier for the wife or mother. There are now many homes in the country thoroughly well equipped, but even among well equipped homes, that of J. W. Richardson, Haldimand Co. Ont., is an exception. It is one of the most complete farm homes that one would wish to see.

The residence itself as will be seen

ive. The manner in which our hostess turned her plants to display all of their good points explained her suc-cess in their culture. She is in love with them.

We noticed that the walls were painted instead of papered and Mrs. Richardson explained that they found Richardson explained that they found that the paint could be easily washed off and made to look fresh at any time. A paper border next the ceiling set the wall off and relieved it of the plain look that painted walls too often have.

Riverside Farm is in the natural as region and the Richardson's gas region and the Richardson' have taken full advantage of this con-Ohe, is an exception. It is one or have taken full advantage of this content most complete farm homes that venience. There are several gas wells on the farm and Mrs. Richardson the farm and Mrs. Richardson by the illustration herewith, is a and the house is fitted throughout



The Home and Family of Ontario's Best Dairy Farm

Mr. J. W. Richardson, Caledonia, Ont., his wife and two daughters, may be here seen in front of their fine home. First stace in Ontario in the Inter-Provincial Price Farms Competition conducted by Farm and Dairy or the Richardson family. The minute of it is that Mr. and the Richardson family. The minute of it is that Mr. and the Richardson family and turn of it is that Mr. and the Richardson family and credit for the part that they have taking fluctually Riverside Farm what it is,—one of the best dairy farms in Chanda.

large and imposing brick structure. with gas chandeliers. Out on the back One of the advantages that the farm-veranda Mrs. Richardson called our or has over his city coush in the estatention especially to a large refrigitabilishing of a real home, is in his erator which she considers an inesurroundings and the Richardson's timable boon to the housewife. It also that there was the statement of the consideration of the statement One of the advantages that the farmer has over his city cousin in the establishing of a real home, is in his surroundings and the Richardson's have taken full advantage of their opportunity. The effect is pleasing from the first. The road on which once drives to the farm is lined with tree.

Nearby is the Grand in the many contractions of the contraction of the contractio drives to the farm is lined with trees. Nearby is the Grand friver and surrounding the home itself are spacious lawns and beautiful trees. These are things that every farmer can well afford. They cost little and add much to the attractiveness of the country home. The best that the city man can do is to make his very immediate surroundings bleasing. A short disavroundings bleasing. A short disa surroundings pleasing. A short dis-tance away is the inevitable succes-sion of brick walls, dirty streets and

the roar of street cars.

Right alongside of the square front Right alongside of the square from hall is the business office where Mr. Richardson keeps his books, pedigrees and records. A typewriter, in the management of which Mr. Richardson's daughter is expert, facilitates correspondence and pays for itself away wear that it takes correspondence and pays for meself every year that it is used. Passing through the office we enter the drawing room which, like all of the rest of the first floor of the house, is rest of the first floor of the house, is finished in hard woods that grew on Riverside farm. Off of the sitting room is a very, large bay window which Mrs. Richardson uses as a con-servatory. Between the windows are mirrors which throw back a reflection of Mrs. Richardson's splendid plants. Her begonism were especially street. Her begonias were especially attractmost goes without saying that there is running water and a bathroom.

We have not here space to describe all of the good points of the Richardson home or of the care that is lavished on it to make it attractive. We will let the illustration between speak for itself. A feature that attracted our particular attention and one that must goo long way towards explaining the success that has attended the proprietors a laving attended in the proprietors attended in the proprietors of the family down to the youngest child family down to the youngest child seemed to be interested in the success of Riverside. And this is as is should of Riverside. And this is as it should be.—F. E. E. . . .

If you are troubled with ants try a little quick lime in the infested places. This will drive away any places. And kind of ants.

It pays to invest in a meat grind-er, so much can be saved by its use in turning tough, cheap meat into tender appetising dishes, and in pre-paring meat for warming over it is indeed a great help. They are not very expensive, and, with ordinary care, will last a lifetime. See that it is throughly clean and dry before nutting it away. putting it away.

Anri

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french Eld Gloves
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backs: colors: tan,
brown, white, black,
navy, etc.; sizes
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Gluranteed French
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If you're a light sleeper, turn on the half minute taps before you go to bed. If you sleep heavily, set the five-minute call and you can slumber then without the get-up worry on your mind.

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carry Big Ben downstairs into the living room so that the whole family cau use him to tell the right time by He stands seven inches tall and his great hig open face can be seen distinctly across the largest room.

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Our Country Women

Mrs. W. J. Root, Bruce Co., Ont. The women living on our farms to-The women living on our farms to-day have many advantages over their city sisters. Hence it is that we are constantly hearing the cry of "Back to the land."

Our men and women of learning know that health and happiness are know that health and happiness are gained from the pure air and sun-shine of the country, but few there are of our city sisters who can afford a five weeks' vacation during the

are of our city sisters who can afford a five weeks' vacation during the summer that they may go to the country and enjoy the fresh air and quiet. The country woman is now receiving much attention. Ways and means are being provided that her work may be reduced and a system of work is being taught which will make it possible for her to have more time for improving the mind and educating herself that she may be able to take herself that she may be able to take herself that she may be able to take herself that interest in the tonies. an intelligent interest in the topics of the day. It is also a privilege and duty for her to give time to the educating and training of her children. MAKE USE OF OPPORTUNITIES

We should all take an active part in the social life around us, entertain our friends and attend regularly the meetings of the Women's Institute meetings of the women's inserting where we may receive help and encouragement in our work. Then we can also keep in touch with one an-other by the use of the telephone. We should endeavor to have good reading matter coming into our reading matter coming into our homes; this is now delivered daily by the rural mail.

It should encourage us country peo-It should encourage us country per ple to hear such notable men as the professors of our universities state that it is the influx of young men and women from the country that has that it is the influx of young men and women from the coulity that has kept the moral principles of city peo-ple on as good a standing as they are Then let us lift our heads with pride. Let us break down the monotony of country life. If we avail oursalves of all the opportunities that may be ours in the country as well as the blessing fresh air and sunshine we cannot of fresh air and sunshine we cannot fail to appreciate the country as an enjoyable place in which to live. Where can we see Nature in all its beauty better than in the country? What can stir our hearts like the morning sunies when all mature is norning sunrise when all nature is awakened out of sleep and every bird puts forth its sweetest strain of music and every breath is filled with the scent of new mown hay. And can we look upon Nature's beauty without thinking of the God who made it? Who can enjoy all this better than the country woman?

. . . Do Away with Spring Cleaning

By Mrs. W. C. Kohler bring and housecleaning!" "Spring "Spring and housedeaning: gonand one of the ladies at the thim-ble party. "I just dread to have spring come, because of the masty housedeaning. It's all very well for people with servants to talk about the people with servants to talk about the beauties of spring flowers and warm days, but I never feel happy till the house is in spick and span order."

Several other ladies echoed the

groan, but one newcomer in the neighborhood said that she cleaned house whenever she thouht it neceshouse whenever she thoult it neces-sary, without waiting for spring, and did not dread the task very much. Of course, the others wanted to know how in the world she could she such a thing, and she replied that it was because she had no carpets in her house.

CHEAPER THAN HARDWOOD

CHRAPER THAN HARDWOOD

"I once visited in an elegant house where they had hardwood floors," she explained, "and I was fascinated with the idea of having a word that could be kept clean. After own the could be kept clean. After over, and commended to have rugs instead of carpets, myself. Of course, hardwood floors were beyond my purse, but I just painted them or stained them, as

seemed best. The bedroom floors were

seemed best. The begroom nows were painted all over, but downstairs I just did the edges of the rooms."
"But what did you do with your carpets?" inquired a lady. "I should

carpets?" inquired a lady. "I should think it would be very expensive to throw them away and buy rugs."
"I didn't throw them away." said the newcomer. "The parlor Brussels I had made into two rugs at a small land made into two rugs at a small but had not the parlor brussels." I had made into two rigs at a small cost—one for the parlor and one for the sitting-room. I had to buy the border, but then two rooms were provided for. The dining-room carpet was worn out, so I made a drugget was worn out, so I made a drugger by sewing three strips of new rag carpet together and putting fringe around the edge. I could have made a much nicer rug if I had planned to have stripes just at the ends, but I will know better next time.

CLEANING MADE EASY "For the bedrooms I have yard-andone-half rugs home-made, to put on both sides of the beds, and in front of dresser and washstands. You have no idea how easy housecleaning is now can easily shake or beat the short account account of

NTHUSIASM is, the element of success in everything. It is the light that leads and the strength that lights men, on and up in the great struggles of scientific pursuits and of professional labor. It robs endurance of difficulty and makes a pleasure of duty.

\*\*\*\*\*\*\*\*\*\*\*\* rugs, mop the floors, sweep down the walls and wipe the woodwork, where it used to be a terrible task to get all the furniture out of the room or lift it off the carpet. Occasionally I get it off the carpet. Occasionally I get the men to carry the mattresses and springs out into the sunshine to air, but usually I manage the cleaning

And you really like the rugs as And you reany like the rugs as well as the carpets?" inquired the hostess. "Don't the floors look rather

hostess "Don't the fleors look rather—well, rather property of the complete of

and I am sure it is much easier.

"It is very easy to make six or eight new rugs every winter and have them fresh and dainty for spring, where making a whole carpet would be quite an undertaking. I never well or have to the old way of having will go back to the old way of having a regular tearing-out every spring and fall. Not as long as I have my

senses, anyway."
"I am going to try that plan with
one room," said the hostess. "If I
like it, I'll do the rest of the rooms." like it, I'll do the learn and Home.

What Needles to Use

A good list to follow when sewing by hand, and one that an experienced needle-woman suggests for the varineedle-woman suggests for the vari-ous numbers of needles and cotton, includes: A No. 9 needle for 70 and 80 cotton, when hemming and tuck-ing; a No. 8 needle for 50 and 60 otton for plain sewing, overhanding, and overstitching; a No. 7 needle for 40 and 50 cotton for buttonholes; and a No. 7 needle for 36 and 40 thread for gathering.

thread for gathering.

When working buttonholes or gathering, it is well to rub the thread over a small piece of beeswax. This will keep it from knotting and will also help it to resist strain.

If a new broom is soaked for half and hous in strong bring it will read hous in strong bring it will read house in strong bring it will read house in strong bring it will read house in strong bring it will read the strong bring it will be strong bring it will be strong bring it will be strong bring it will read the strong bring it will be strong bring it

an hour in strong brine it will re-main crisp much longer.

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Apr TH MI

A MAN it was ter wi know a n horses mu know the ther. So I told

He said of pay me fire which we have a care with a car

washwoman
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A. HUTCH

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J.H.Conne

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### THIS WASHER MUST PAY FOR ITSELF.

A MAN tried to sell me a hod it was a fine horse and had ter with it. I wanted a fine know a nythin g about horses much. And I didn't know the man very well alther.

know the man very well either.
So I told him I wanted to try the horse for a month. The property of the proper

no back proof it wanted thinking.

A single was a single

with the control of them, in less than half the time they can be washed by hand or by any other in the can be washed by hand or by any other in how it will wash a tub full of very dirty clothes in Six Minutes. Lanow noother machine even invested can do that, without wearing the work a case; that a child can run it aimout a strong wearing, and it don't wear the way all other machines do.

way all other machines do.

So, and I to myelf, I will do with my reso the clothes it is not to the control of the control of

Address me personally: O. U. MORRIS, Manager, 1900 Washer Co., 367 Yonge St., Toronto, Ont.

### Seed, Grain and Potatoes

Biberian Oats, clean and pure, 70c pe bus. No. 21 barley, from hand selecte seed, absolutely pure, \$1.25 per bus. En pire State, Delaware and Satisfactio Potatoes, aif from selected registered seed \$2 per bug. Cash with order, bags free A. BUTCHINSON, MOUNT FOREST, ONY

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### Connor Ball Bearing Washer

Your clothes last that much longer. In that way the washer soon pays for itself. And then continues to save fo Saves labor, Runs on ball bearings so easily, so swiftly, it almost runs swiftly, it almost runs itself. Write for booklet, giving full description.

J.H. Connor & Son, Ltd., Ottawa, Ont.

### \*\*\*\*\*\*\*\*\*\*\*\*\* **GRANGE NOTES**

\*\*\*\*\*\*\*\*\*\* Elgin County Grange Meet

Eigin County Grange Meet
The annual meeting of Elgin.
County Grange was held in the St.
Thomas Court House on the Method of Arthonia Court House of Apple attendance. Owing to the Worldy Master,
Bro. W. Wardell. Master of Apple Grove Grange, cccupied the chair.
The committee appointed at the last meeting to report out advisability of getting a Grange of getting a Grange of getting a Grange of getting a Grange of the Medical St.

The committee appointed at the last meeting to report out advisability of getting a Grange of getting a Grange of the Medical St.

The committee appointed at the last meeting to report out advisability of getting a Grange of the Medical St.

The committee of the Medical St.

The Committe meeting to report on the advisability of getting a Grange Room in St. Thom, a for the converge Room in St. Thom, a for the converge Room in St. Thom, a for the converge Room in the the Young Women's or Young Month of a room in their new buildings. The teport was referred back to the committee to work out the details. The following resolution was moved by T. Hunt, seconded by Neil E. Burton: "That considering the superior qualities of the lands on the lake shore counties, burdering on Lake Erie shore counties, burdering on Lake Erie west of St. Thomas and the wealth and progressiveness of the farmers in

and progressiveness of the farmers in those counties, and the large number of growing towns and villages thereof growing towns and vinages there-in, and considering the greatest bene-fits to the greatest number and the financial result, this Grange is of the opinion that the Hydro-Electric Commission should extend its line from St. Thomas to Windsor, on what is known as the Southern route."

PRESS MISHIPHERENTATION
This motion was thoroughly discussed and carried unanimously,
Bros. Hunt, Burton, Futcher, Spague
and Lyie were appointed as a committee to attend the meeting of the
Commission to be he'd the next day,
Mr. Frank Bainard, Glanworth, Ont.,
Jalante to the Dominium Grance PRESS MISREPRESENTATION delegate to the Dominion Grange from Forest Rose Grange, gave a very interesting and concise report of the meeting held in Toronto in January and called attention to the fact that the newspapers had stated that the Grange was opposed to the good roads movements, rural 'phones, etc., orange was opposed to the good roads movements, rural 'phones, etc., through the haste of the reporters to take in their copy before the discus-sions on the subjects were over. Mr.



The Joy of The House Wife Mrs. J. W. Richardson, Haldimand Co., Ont., is particularly proud of her fine begonias. A few of them may be seen in the ll'ustration herewith. Who has a display of plants to match it?

Neil Burton also spoke along the same

The next meeting will be near Aylmer by invitation of Dufferin Grange in Malahide on Thanksgiving Grance in Malabide on Thanksgiving day. The ideas of the color of the Clara Humphries; Flora, Miss Carrie Futcher; Stewardess, Miss Mary Bell McBane





I like moths, but they don't like me, I have o disagreeable odor. I take away all your rouble and worry with moths. Try me, You're

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Worst Cases Yield To Douglas' Egyptian Liniment

Mr. J. L. Boyce, secretary of the Nap-ance Driving Park Association, has had a good deal of experience with thrush on horses' feet, and has tried various remehorses' feet, and dies. He writes:

"I have cured bad cases "I have cured bad cases of discossed feet or thrush on horses with Egylactions, after calomel, sait, coal oil, etc. had completely failed to do the work. Don-sider it a waste of time to use anything but Egyptian Liniment for thrush."

but Egyptian infilment for invasion.

Such an emphatic statement from an experienced borseman speaks volumes for Douglas' Egyptian Liniment. Another man who has found it most effective is Mr. John Garrison, Morven, Ont. He

says:
"One of my horses had thrush so bad
that his feet became offensive, and the
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Liniment, and in a short time my horse's
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International Stock You certainly do need it Food during Calving Time. You need INTERNATIONAL STOCK FOOD for the cows and you STOCK FOOD for the cows and you need it for the calves.

It will keep both cows and calves in good states and seep these digestion sound. It put the state of the common states are considered to the common state of the common s national Stock Food Co., Limited, TORONTO

### Rose of Old Harpeth

(Continued from page 28) friendly tone, as if the hint had failed to make a landing. The cun-ning in his own glance and tone he was shrewd enough to hide. "That was about all—nothing that

was worth taking up then," answered the Senator carelessly, and at that moment Mr. Crabtree came out to join them.

to join them.

In a few minutes Everett threw
away his cigar, glanced across at the
Briars, where he could see Rose
Mary and Uncle Tucker establishing
Miss Lavinia, in her high company
cap, in the big chair on the front
out, of the back door of the store
and across the fields toward Boliver.
He stopned at the Rucker side fence He stopped at the Rucker side fence He stopped at the Rucker side fence and entrusted a message to the will-ing Jenny, and then went on into the twilight in the direction of the

the fwilight in the direction of the lights of the distant town.

And as he walked along his mood was, to say the least, savage, and he cut, with a long switch he hap pick-ed up, at some nodding little wind bells that had begun to show the colors along the side of the road.

He was hungry and he was having



Playmates and Friends

He answers to the name of "Jeff." His mistress is Miss Anna Brethen, daughter of c. A. Brethen, Peterboro Co., Ont. One does not need to be told that these two are the best of friends. Just look at the Photo by an editor of Farm and Dairy.

are the best of reiesses. Just note at interpretable process.

—Photo by an editor of Farm and Dairy.

—Photo by an editor of Farm and Dairy.

It is upper in detached visions. Now
Rose Mary was handing the Senator a plate of high-piled supper rolls, each with a golden stream of butter cascading down the side, and as her cascading down the side, and as her bright probably she was helping to the probably she was helping to the side of t

(To be continued.) . . .

Graniteware should not be left to dry over a hot fire, as the heat in expanding may cause the outside to

### 

The Sewing Room

Patterns 10 cents each. Order by number, and size. If for children give age; for adults, give bust measure for waists, and waist measure for skirts. Address all orders to the Pattern De-partment. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### SPORT OR MANNISH SHIRT, 7793



The shirt that is made in true man. The shirt that is made in true man. The shirt that is made in true man. The shirt that is made up in the shirt that is made up in the shirt that is made up in the shirt that is and it is shown in the wash-able slike that never able slike that never a

This pattern is cut in sizes 34, 36, 38 and 40 inches bust measure.

GIRL'S SAILOR DRESS, 7785



Every variation of he sailor costume liked for the the sailor costu is liked for t younger girls. T middy blouse th middy biones that a consider the constraint of the commended, but some girls like the regulation biones, and it can be cut off and finished as abown in the back wite. that

shown in the back view.

For the 12-year aize will be needed 5% yards of material 27 inches wide, 5 yards 36, or 3%, yards 44, with 1 yard 27 inches wide for the collar, shield and trimming, and 3% yards

This pattern is cut in sizes for girls 8.
12 and 14 years of age.

### THREE-PIECE SKIRT, 7796



THREE-PIECE SKIRT, 1798

The skirt with a narrow front panel in the pa

BOY'S KNICKERBOCKER SUIT, 7686



April A Resu

are of al Holsteins.

only stee struction sanitary : As a fa man's object the farm what I fe is the way mean that feed. Co ducers as

more conc grows abo with the n of wheat p oil cake a also grows that he m pulp of the To give Spring Bre give a hist the Holste

Hallman's men man's fathe Holsteins Hall his father in 1888 and since elapse ly and fait chosen bree FOU Perhaps Mr. Hallma stein was th

the formati tablishment was the first It wa initiative the was called a forward the stein Assoc own records going in wi Arts Associa fluence was were adopte breeders and reason to be was he who the present Holstein regi Nor have

been directed his breed. Farmers' In judge at least to Pacific, which he nov his time, der in judging emethods he ha has used a si the first rou criticised by l who themselv adopted his breeder, impe

showing of r still retain th made them fa when he was our leading work also they a son of Por head of the he in a better po to supply a f class hours spent w invested by ar ing for the b course he price

While Mr.

### A Result of 25 Years of Careful Breeding

(Continued from page 17)

are of almost as much interest as the Holsteins. Mr. Hallman has used only steel and concrete in their construction. They are well lighted, sanitary and built to last forever.

SELF SUSTAINING FARM A SELF SUSTAINING FARM
As a farmer and feeder Mr. Hallman's object has always been to make
the farm self-sustaining. "I grow the farm self-sustaining. "I grow what I feed and feed what I grow," is the way he puts it. This does not mean that Mr. Hallman does not buy mean that Mr. Hallman does not buy feed. Cows that are as heavy pro-gducers as his are, demand something more concentrated than home-grown grains. Each year Mr. Hallman grows about 20 acres of wheat, and with the money realized from the sale of wheat purchases such feeds as bran oil cake and cotton seed meal. He also grows a few sugar beets in order that he may have a claim on the beet

that he may have a claim on the beer pulp of the sugar factory. To give a history of Mr. Hallman's Spring Brook herd of Holsteins is to give a history of the development of the Holstein breed in Canada. The Latinagie have aver been Holstein the Holstein breed in Canada. The Hallman's have ever been Holstein men. Away back in 1885 Mr. Hall man's father imported Holsteins from Illinois. There were among the Holsteins brought into Canada. Mr. A. C. Hallman in partnership with his father started to keep Holsteins in 1888 and in the 25 years that have since elapsed has worked continuously and faithfully for the good of his chosen breed.

POLYMBE OF HERD BOOK
Perhaps the greatest cricic that
Mr. Hallman has rondered the Helstein was the part that he proven in
the formation of the Canadian Helstein Breeders' Association, and establishment of the Herd Book. He
was the first president of the Association. It was on Mr. Hallman's own
initiative that the special meeting
was called at Guelph at which he put
forward the proposition of the Holforward the proposition of the Hol-FOUNDER OF HERD BOOK forward the proposition of the Holstein Association conducting their own records department, instead own records department, instead of going in with the Agricultural and Arts Association, where Shorthorn in-fluence was strong. His suggestions were adopted in full by his fellow breeders and Mr. Hallman has good reason to be proud of the fact that it was he who laid the foundation of the present successful system of Hulstain recitartation. Holstein registration.

Holstein registration.

Nor have Mr. Hallman's efforts been directed solely to the good of his breed. Agriculture generally, has benefited from his services. As a Farmers' Institute lecturer, as a judge at leading fairs from Atlantic to Pacific, and from the work to Pacific, and from the work to the comparation of t methods he has ever been a leader. He has used a silo for 25 years and built the first round cement silo in his county. Like most pioneers he was criticised by his well-meaning friends, who themselves 10 or 20 years later adopted his methods. He is also a breeder, importer and exhibitor of Tamworth said. Tamworth swine

While Mr. Hallman has not b showing of recent years, his cattle still retain the show yard type that made them famous a few years ago, when he was a well known figure at our leading shows. In official test our leading shows. In official test work shows in the good With a son of Portins Today good. With a son of Portins Today in the son of Portins and the son of Portins of the son of Portins and the son of Portins of the son of Portins of the son of the so

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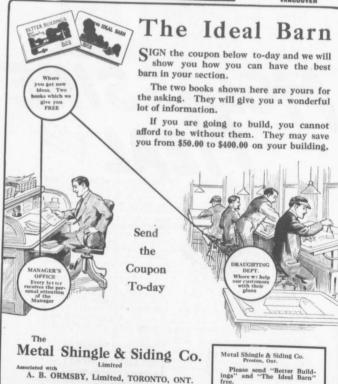
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### A BSORBINE A Story in Word and Picture of Two Avrshire Breeders

(Continued from page 23)

(Continued from page 28)
dele Coquette by Cheerful Roy, and a
pair of heifers out of Barcheskie Roy
vorite Rose and Barcheskie Roy
Rose. Six of the young heifers in
one stable are all from the one bull
Hobbsland Jolly, mentioned in the
foregoing. They testified admirably
to the remarkably good breeding qualto of their sire. Several of these
Mr. Kay's herd
Before concluding we must make

Mr. Kay's herd.

Before concluding we must make
mention of Ravensdale Flirt, who,
sire is qualified in R.O.P., four of the
daughters qualified being in Mr.
Kay's herd. All through the Ravendale Ayrshires have every appearance
of being heavy workers. They possess dale Ayrshires have every appearance of being heavy workers. They possessabundance of size, capacity and constitution, capacious, shapely udderwith large, easily-milked teats. Just in this connection it is interesting to the state of the s in this connection it is interesting to note that as long ago as early in 1908 Mr. W. F. Stephen, Secretary of the Ayrshire Breeders' Association, at



A Result of the Storm

Western Ontario farmers can run up a good bill of damages against old Mother Nature for the recent gale. This inverted corn crib is in the County of Oxford.

described to the recent gale. This inverted corn with is in the County of Oxford Huntington, Que., writing in Farmand Dairy of the Ravensdale Ayrshires, said of them: "One thing I pertendary notioed in the herd was that the cows have all good udders and large teats." Thus it is evident that this most desirable characteristic has been bred into these Ayrshires. Similar to Mr. Montgomery's manager, Mr. Symington, Mr. Kay dosnot attempt at all to force his cows. The records he has made are such as could be greatly increased and could be equalled by any one with these ame cattle on ordinary feed and care. For a grain ration he feeds a mixture of bran, oats, gluten feed and care the second of the second of the county of the c

At another time we will have n At another time we will have more to say in Farm and Dairy about Mr. Kay's farm of 250 acres, and also about Mr. Montgomery's farm A. goodly number of photographs, which we secured two weeks ago on these farms, will be published in Farm and Dairy from time to time. In closing we cannot refrain from commenting we cannot refrain from

In closing we cannot refrain from commenting upon the admirable pra-tice carried out in both of these here of raising all of the heifers to matu-ity and weeding out underisables and selling off cows as they mature. It has made possible the great uniform-ity of these herds, which you would be pleased to go and inspect and to bu-from them the stock you may be wanting. Neither Mr. Kay nor M. Montzomery are anyious and Montgomery are anxious to sell ary females just now. If you can use one or more of their bulls, then get in touch with them for we assure you that they have the right kind and a price most reasonable.—C. C. N.

Scours is a germ disease. Make war on this germ.

he plowed ridged and In the sp bushel of l seed to the

April

fallow gas excell formed us fields of quing the property in the property of th

As a gen hered to it plant corn, as the corn next year ad to alfa grows a co clover and standby. derived fro seed. Mr. dressing an quent appl in the wint least expen The River entirely of numbers, al

at the time cows of whi ly all have ance tests have been they have every part for instance were among Holstein class At Calgary, pion herd, male and fe of Mr. Richs There is no breds and g said Mr. Ric be able to n our sales of pmore to us in cheques."

THE BU There are accommodation stock is amp and a good stock as well barn where under Mr. R ervision. The years ago as oughly remodate. The loughly well is increased of whitewash litter carrie the stock co of the calf p stanchions in fed. Mr. Ric if the calves time after fe Richardson's tracted our a dirty pails as of scours,"

The Richard 60 acres of connection wit ings are three ure of

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Roya fers e bull in the nirably g qual ms i

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(37)

### THE STORY OF A PRIZE WINNING DAIRY FARM.

(Continued from page 5)

link the pass three years always following this same method.

As a gonard rule the rotation adhered to is to break up a field that has a general rule to rotation adhered to is to break up a field that has not a fine to follow the same to the same to fall wheat as soon as the corn is not follow the same to read in the winter when it can be done at expense

The Riverside herd is now compose entirely of pure bred Holsteins, and numbers, all told, 80 head. Of these numbers, all told, 80 head. Of these, at the time of our visit, 36 were milk cows of which 25 were milking. Near-ly all have been officially tested and have A. R. O. and Record of Performhave A. R. O. and Record of Performance tests that do them credit. In the 20 years that the Richardsons have been breeding pure bred stock they have sold animals in almost every part of Canada. Last year for instance, stock bred at Riverside were among the leading winners in Holstein classes all through the West. At Calgary, particularly, the chample of the control of the Richardson's skill as brooker. "There is no comparison between pura breds and grades as profit makers." "There is no comparison between pura-breds and grades as profit makers," said Mr. Richardson. "We would not be able to make the good living that we do without our pure bred stock as our sales of pure bred stock are worth more to us than the milk and cream cheques."

more to us than the milk and cream checues."

THE BULLDINGS AT SUFBRIDE.

There are two sets of buildings on the Richardson farm and house the accommodation both for eattle and stock is ample. All of the milk cows and a good proportion of the young atock as well, are kept in the main barn where they are more directly under Mr. Richardson's personal supervision. This barn was erected many years ago and has since been thoroughly remodelled and made up-to-date. The basement stable is thoroughly well lighted, which lightness is increased by frequent applications of whitewash. It is equipped with little carriers crement floors and of whitewash. It is equipped with all the carriers crement floors and for whitewash. It is equipped with the stock comfort above and to keep the stock comfort above and to keep the stock comfort above the Mr. Richardson drew our attention, were the stanchions in which the calves are fed. Mr. Richardson has found that if the calves are kept tied for a short time after feeding they do not suck each other. Another point in Mr. Richardson's management that attracted our attention were the clean calf pails. "We can't afford to have dirty pails around," said Mr. Richardson. "They are a prolific source of secure." ardson. "They are a prolific source of scours."

PRED IS NEVER SCARCE

The Richardsons grow as much as
60 acres of corn in a year, and in
connection with the two sets of buildings are three large silos. With such

(Continued from page 5)

he plowed the field again, worked it, a plentiful supply of ensilage and ridged and top-dressed in the winter. In the spring he seeded it with a bushel of barley and 20 lbs. of alfalfa the seed to the acre. At the time of our thin the first place is never a scarcity of feed at Riverside.

There is a bigger labor problem on the first place, he produced to the stand of alfalfa fashion. In the first place, he professed of quack glass with success during the pass three years lowers three fields of quack glass with success during the pass three years lowers and this will have been first to the first place he produced the first place is a grown of the fifth rate fields of quack glass with success during the pass three years lowers for his men. Instead of the fifth rate fields of quack glass with success during the pass three years lowers for his men. Instead of the fifth rate heads on flords a home of which any lower has been first to break up a field that has been first to 10 years in alfalfa, blant corn, seed to fall wheat as soon as the corn is removed, and follow the next year with barley and oats seed of the seed of the farm to acrop that can be handled ed to alfalfa. Mr. Richardson also grown a considerable acreage of red clover and timothy, but alfalfa is the standby. A considerable revenue is derived from the sale of red clover seed. Mr. Richardson also grown a considerable acreage of red clover and timothy, but alfalfa is the standby. A considerable revenue is much cheaper than manual labor, of residence in the standby and and his meadows receive frequent applications. This top dressing and his meadows receive frequent applications. This top dressing and his meadows receive frequent applications. This top dressing and his meadows receive frequent applications. This top dressing and his meadows receive frequent applications. This top dress in the winter when it can be done at the pass of the standby. A considerable across of the pass of

MANY SOURCES OF INCOME

So far we have spoken only of the dairy features at Riverside Farm; but Mr. Richardson does not believe in Mr. Richardson does not believe in putting all of his eggs in one basket. He believes that several departments are more profitable than one special-ty and among other of his money-makers he numbers hogs, horses, wheat, honey, apples, clover seed, small fruits, cherries, poultry and small fruits, cherries, poultry and eggs. In fact, the hogs bring in more done of the smaller side lines is worked for all there is in it. "When one has not time to pay attention to any branch of his farm work it is time for him to drop that branch," was the tritle semark that explained the board of the smaller was the control of the smaller was the sm

one trite remark that explained the progressive management that characterised every department of the farm. The second of the second every department of the farm. The second every department of the second every depart burenasing concentrated feed. The hogs are fed as cheaply as one could well imagine. In winter they receive roots, alfalfa chaff and meal; in summer clover pasture and the run of the orchard.

A REALITIFUL HOME

Improving their farm and stock has not taken all of the time of Mr. Richardson and his son. They have fund time to plan and build one of the finest farm homes we have very visited. A description of this splendid home and its beautiful surroundings will be found in the Household Department of Farm and Dairy this week. In the home one finds the utmost cooperation. Mrs. Richardson is just as interested in Holsteins as is her husband. And that Mr. Richardson is just as interested in Holsteins as is her husband. And that Mr. Richardson takes an interest in his wife's special charge, the home, is proved by the up-to-date labor-sawing devices with which it is equipped. "The success of Riverside has been largely due to the cooperation of all the members of the cooperation of all the members of the Capital William of the Capital C of the family," writes Mr. Richard-

Renew your subscription NOW.

# Economize on the Milk



Raise Healthy Calves Like These RAISE THEM WITHOUT MILK

You can do it with

### CALFIN

"The Stockman's Friend (Made in Canada.)

Now that milk is so high in price and sells so readily, it will be wise to feed Caline and sell the milk Caline has been most successfully used at Macdonald College and has given excellent results wherever it has been the largest and best equipped dairy farms in Canada. It will pay you to try Caline. Ask your dealer for a 160-lb. bag of Caline as a trial. You will soon be back for more. If your dealer does not handle it write us direct.

NOTICE:—
If you would like to try Calfine, and cannot secure it from your dealer, send us a money order for \$2.75 and we will ship you 100 hbs. as a trial and pay the freight on same to any station in Ontario south and east of Sadbury.

Compare this price with that asked for other calf meals. (Sure ours is worth a trial).

(y ours is worth a trial). Feeding instructions will be sent each reader of this paper who applies to us for them. Write us to-day and learn how to raise your calves at much less expense than it has been coeting you in

Remember Calfine is made in Canada. You pay no fancy price for it like you do for calf means of foreign manufacture. There is

BUY CALFINE and try it on those new-born calves of yours.

DO IT NOW

Canadian Cereal & Flour Mills, Ltd. TORONTO, CANADA

### ORDER AT ONCE

OU'LL soon be fertilizing your soil. While we can promise prompt shipment of HARAB Fertilizers, we cannot be held responsible for any railroad delays that might occur in ansit. To make sure of having

# HARAB **FERTILIZERS**

you need them urgently, place your order at once. We make 14 different HARAB Fertilizers—each one the best for its particular purpose. If you haven't a copy of our Fertilizer Guide Book, write for a copy.

The Harris Abattoir Co., Ltd., Toronto

Nothing Else

In Them

Germination Test ..... 98 per cent. Weight Test .... 45 lbs. to bush.

Grown on the famous Angus MacKay Seed Farm at Indian Head. They are simply great. Price while they last 90c per bush; bags free. No order taken for anything less than 3 bushels.

MARQUIS SPRING WHEAT from the same source. Sample of the same calibre as the Banner Oats. Finest we ever saw. Price 2.15 per bush.; bags free.

RED FYFE SPRINC WHEAT, also grown on the Angus MacKay seed farm, from registered seed. In fact it is eligible for registra-tion, but the Government, as usual, was too slow in scaling the bags, so it is our loss. Special price, \$1.60 per bush.; bags free.

See our advertisement in last issue of Farm and Dairy, April 3rd, page 406 (or 10), for other seeds.

### GEO. KEITH & SONS

Seed Merchants since 1866

124 KING STREET EAST

TORONTO

### FAIRVIEW FARMS HERD

Sons of PONTIAC KORNDYKE, ready for service in the near future or younger, sons and daughter of SIR JOHANNA COLANTIA GLADI, whose three first anguleter to be officially retend average below. In particular two year-olds, and sons of RAO APPLE KORNNULL in and AG APPLE KORN DYKE STILL be retained by KORNDYKE DIE to be world. Write me for anything that you want in first-class fieldsteins. Offers HEUVELTON, NEW YORK

THE SECOND ANNUAL

Woodcrest - Oakland Sale

# Holstein-Friesian Cattle

Woodcrest Farm, Rifton, Orange Co., N.Y. MAY 28th, 1913

HEAD

Government Tested, and Thus Eligible for Shipment into The Dominion Without A Retest

Included in the number will be the World's Champion Heifer with first calf, Tirania Lady Aouda 5th A (32.3 lb. at 3 years), and Woodcrest Colantha Pietje (20.44 lb. at 23 months), the only junior 2-year-old to produce over 20,000 lb. of milk in semi-official yearly test.

The Woodcrest-Oakland Sale will be a good place to buy Holsteins of the money-

making kind. Woodcrest Farm

Oakland Farm Rifton, N. Y. Weedsport, N. Y.

E. M. HASTINGS, Sale Manager Lacona, N. Y.

PRICHMOND CO., QUE.

DANVILLE, April 2.—We are having cold weather, with high winds; no snow, some processing the processing the processing the processing to full swing and some very segaring is in full swing and some very segaring is in full swing and some very segaring to full swing and some very segaring to full support the processing as high price. Milk cows bring as high price Milk cows bring as high as a constant with the price of the pr

ONTARIO

HASTINGS CO., ONT. SIDNEY CHOOSENIO, MARCH BI.—We have experienced one of the worst aleet storms experienced one of the worst aleet storms are storms. It is impossible to estimate the storms of the storm

WELLINGTON CO., ONT.

are about as usul.—A. R. "nees and feed are about as usul.—A. R. "less and feed with the control of the control OXFORD CO., ONT.

OXIOID Co. OXI.

WOODSIOOK APTILL-We are having the average of the control of the

NORFOLK CO., ONT.

to Toronto.—A. M. McD.

STRIE VIEW, March 22.—A. very heavy rain covers of the view of the

GOSSIP FROM BROOKSIDE.

GOSIF FROM BROOKSIDE.

Mr. John Mokre. Brookside. Norwick, Ont., we have and Dairy as follows: "Brookside Area and Dairy as follows: "Brookside Area and Dairy as follows: "Brookside Area and the hard and the demand has been the long and the demand has been the beautiful and the demand has been the demand to sell. With the exception of a summer of the second of the

SEEDS FOR FARM

OUR FARMERS' CLUB
CORRESCIONATION OF THE PARMENS O

MR. BALLANTYNE'S OFFERING

MR. BALLANTYNE'S OFFIRING

Interested Arrabits men will note the exceptionally sood of which we have a complete the sood of Performance stock being offered by Serve W. Bullantyne, Starford, Ont. Bullantyne, Starford, Starford, Ont. Bullantyne, Starford, Starford, Starford, Starford, Ont. Bullantyne, Starford, S

A LITTLE INTERESTING AYRSHIRE

LORE.

After going through the Ravensdale and akeside herds and inspecting the

After going through the Ravendadie and Lakeeide herds and inspecting the Aryshires there two weeks ago and find Aryshires there two weeks ago and find Aryshires there two weeks ago and find the Aryshires there two weeks ago and find an accordance of the Aryshires there were thought it in their nomenclatures we thought it in creasing to let Farm and Dairy readers are prepared to the Aryshires and Arysh

fat.
"Mr. Andrew Mitchell, of the Barchekie Farm, was one of the foremost judge of Ayrahires in Scotland. He knew he to pick the good ones. Hence the fame the Barcheskies."

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# Stable Your Cattle The Superior Way

YOU cannot build or remodel your stable intelligently without my BOOK on SANITARY STEEL STABLE FIXTURES.

I want every man who raises stock to see my BIG BOOK on SUPERIOR SANITARY STEEL STABLE FITT-INGS.—If you have TWO OR THREE COWS—or if you have ONE HUNDRED—send for MY BOOK.—It illustrates and describes fully the most modern stable equipment made. If you are building or remodelling a stable get MY BOOK,—it will pay you.— I can put Sanitary, everlasting, convenient and comfortable Steel Stalis and Stanchions in for you for less money than you can put in wood.



If you keep cows, write me and I will send you my big book Free.



Let me show you what it will cost you to have a Superior Stable.



I want YOU to know all about my Superior ADJUSTABLE ROTATdifferent sized stock, and SIX other different designs of STANCHION,
COW STALLS, BULL PENS, MATERNITY PENS, OALF STANCHIONS,
and PENS, HORSE STALLS and MANCERS, WATER BOWLS, and
everything for a MODERN STABLE. Write for my BIC FREE BOOK
now, and State whether you intend to build or remodel, and how many
cattle you stable. Send a post card now to—

GEO. P. MAUDE, Manager

### Superior Barn Equipment Co. FERGUS, ONT.

The Largest Exclusive Manufacturers of Stable Fittings in Canada,

reads this offer

### BOYS! BOYS!!

A Pure-bred Pig For You BOYS!!

and anyone who

Also for the GIRLS, too

One bright boy only 10 years old got a pure bright boy only 10 years old got a pure bright. (a Torkshire Boar piz), and we paid him 85 and also, and it took him only three days to another boy, and 12 and money.

Another boy, aged 12, won two pure bred pigs and 86 cash for working only in his spare time during two weeks.

See the Boys in the Picture

These boys are very proud of their splen-did pigs, which we gave them for getting find the properties to Farm and Dairy. Say years and pairy to the Say years and pairy to the properties of the pro-tant years and pair of the properties of the pro-tant pair of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the properties of the properties of the pro-tate of the protection of the pro-tate of the protection of the pro-tate of the pro-tate of the protection of the protection of the pro-tate of the protection of the protection of the pro-tate of the protection of the protection of the pro-tate of the protection of the protection of the protection of the pro-tate of the protection of the protection of the protection of the pro-tate of the protection of the protection of the protection of the pro-tate of the protection of the protect

MASTER GRAYDON KNOWLES AND BROTHERS
Thom bow are standing with their Farm and Dairy fig to have their
taken. The property of t

We Give You Absolutely Free A Pure-bred Pig-Your Choice

Ask your father's friends and neighbors to subscribe to Farm and results of Farm that the copy. The them this copy. The copy of Farm and Dairy. They will be glad to seribe at once.

For getting only nine new subscriptions for Farm and Dairy.

We will pay you a liberal cash commission if you would rather have it for every new subscription you will give us from amongst your father's friends and neighbors. You are sure to be have helped Farm and Dairy.

if your father's friends and neighbors.

Four choice of Tamworth, Vortshire, or learning to the breed you want. May be the four pit or a sow pit, which was the pit of the pit o

Farm and Dairy, Peterboro, Unt.—
Dear Friends,—I have read your offer in Farm and Dairy,
April 10, and I will try to get nine of Papa's friends and neighbors to take Farm and Dairy even for one year. They will
be new subscribers to Farm and Dairy.

(Signed)

Farm and Dairy, Peterboro, Ont .-

Post Office ...... Prov. .....

FARM & DAIRY, PETERBORO, ONT.  (40)

44 Campbell Ave., Toronto, Ont

Clydesdale Fillies and Stallions

Smith & Richardson, Columbus, Ont.

FARMER'S SON, ACE 27, SINCLE
WANTS POSITION ON LIVE FARM.
Always been on farm, having charge of when the control of the contro



### Owl Brand Cotton Seed Meal

GUARANTEED ANALYSIS

\$32.50 per Ton F. O. B. Toronto

"You Need the Feed We Need the Money"

Crampsey& Kelly

Dovercourt Rd., Toronto

### \* MARKET REVIEW AND FORECAST

Toronto, Monday, April 7. Spring orders are coming in well; in most cases in ments, however, then ever before Payling the first property of the fact that leading financial experies the fact that the fact

cannot be considered to the considered control of the contro

163 125: Oblation No. 2. 286 to 56c and down to 70c for COANSE (BRAINS)

Deliverise of Ontario grains are so elow that trade is dull and interest at a low that trade is dull and interest at a low that trade is dull and interest at a low that trade is dull and interest at a low that trade is dull and interest at a low that trade is dull and interest and the feet of the feet of

EGGS AND POULTRY
Receipts of egrs at this market continue
somewhat small in proportion to the
somewhat small in proportion to the
points. But must be held at country
continues that the points are still on the down grade. Wholesale
dealers quote new laid eggs at the to 26
points. But the country continues the country.
Eggs retail at 50
points. But the country points.

Werehants quote their seeds to farmers
Merchants quote their seeds to farmers EGGS AND POULTRY

Merchants quote their seeds to farmers on a cwt. basis as follows: Alsike, No. 1, 252.55 to 83.150; No. 2, 84.59 to 825.50; red clover, No. 1, 825 to 825.50; No. 2, 831, timothy, No. 1, 87.50 to 88; No. 2, 86 to 85.50; alfalfa, No. 1, 819.50 to 820.50; No. 2, 817.50.

Merchants quote their aceds to farmers on a cett basis as follows: Alsiles No. 1, 1830 to \$8.50; receiver, Nat. 1830 to \$8.50; are clover, Nat. 1830 to \$8.50;

MONTREAL HOG MARKET
Montreal, Saturday, April 7-A feature
for the Staturday, April 1-A feature
of the he strong upward trode continues to
for the strong upward trode continues to
for the heat of the strong upward
for live hogs, they having scored a further advance since this day week of 25:
attributed to the author some extent is
attributed to the author of the continued good demand from packers here.
The continued good demand from packers here.
The continued good demand from packers here.

MONTREAL BUTTER AND CHEESE
Held to the continued good of the continued good good of the continued good good of the continued good of the con

Several new records were established to the third Annual Consignment Sale of the Belleville District Breeders (Juh held to Belleville, April 2nd. The highest price ver paid in Canada at public auction for Holstein cow was paid for the nine-year-dd cow May Echo Verbeile. She went to

### It Often Works Quick

Agincourt, April 1, 1913.

Farm and Daiey.

Farm and Dairy.
Peterboro. Ont.
Dear Sirs.—I have sold the 11month-sold buil I had advertised in
Farm and Dairy to Wm. Armiman Dairy to Wm. Armititle I got his
letter from the bound in 150 his
land more particularly about this
land, at the same time that I got
the first issue of the Farm and
bary containing the ad.
July 14. 1812.

W. A. Patterson.

Mr. Breeder, it would pay you to advertise your surplus pure bred live stock in Farm and Dairy! Fix up your ad. to-night and send it in to us and have it in Farm and Dairy covering several issues. It will cost you only \$1.40 per inch each time, and take your mes-sage to over 16,000 possible buyers.

CR/ Elmda

FOR SAI light colors sire of 10 up to 20 lbs butter in 7 No. 1. Da lbs. butter R.O. M. at 2 lbs. butter R.O. M., 330 dbs. butter R.O. M., 330 dbs. butter

FRED CARI



## This Engine Runs on Coal Oil

Every farmer can afford an Ellis Osal Oil Regine. They give far more power from coal oil than other engines do from gasoline. They are safe, as well as other particular of the second o

Stop 11.

FREE TRIAL FSR 38 DA75. You do n't have to take our word for it. We'll send an engine anywhere in Canada on Thirty Days' Free Trial. We furnish back at waiting for testing on your work. If it does not suit you send it back at waiting the start of the star

Absolutely guaranteed for 18 years. Write for free catalog and opinions satisfied users. Special offer in new territory.

S to 15 horse-power
We pay Duty and Freight Ellis Engine Co., DETROIT, MICH.

# Save Money on Your Cement Silo

THE last ten feet of your cement silo cost you more in time and trouble than the rest of the job put together. Save yourself this hard work and cut down your building cost by using the WATEROUS STEEL PLATE SILO TOP in place of cement.

The plate is rolled to fit 10 ft., 12 ft., and 14 ft. in diameter. Each The phase is routed to fit 10 ft., 12 ft., and 14 ft. in diameter. Each course is 4 ft, high. Two or three courses on top of your cement silo will raise it as high as you want at a moment's notice. If your corn or larger than you figured on you can add a course at any time. Plates come to you ready and marked for assembling. You can do the work yourself.

Besides being durable, storm, frost and shrinkage proof, the WATEROUS STEEL PLATE SILO TOP will keep ensilage 20 per cent, better than stone, cement, or wood, and it will cast you-complete with rivets—no more than the cement and gravel alone required for the same amount of concrete work. It's a money-saver every time. Write for prices, etc.

The Waterous Engine Works Co., Ltd. BRANTFORD, CANADA

"METALLIC" Ceilings

are artistic, sanitary and will last as long as the building.

In the kitchen and bath-

room they are of particu-lar sanitary value as they can be easily cleaned and

are absolutely rust-proof. While inexpensive, they give an air of distinction

690

TALLIC ROOFING

Do You

Want

To Get

Results

MANUFACTURERS

BRAND Dairy Testing Feed, Calf Meal, Baby Chick Feed, Poultry Mash, Scratch Feed and Groat-ine are giving excellent results. Good quality, reasonable prices. Write us.

CRAMPSEY & KELLY

Elmdale Dairy Holsteins

Limitate Party Holsveins
POR SALE—Two choice Buil Calves,
light colored, sired by Paladin Ormsby,
sire of 30 L. O. M daughters. 2 year-olds
sire of 30 L. O. M daughters. 2 year-olds
butter in 7 days. Pull sister to calf.
No. 1. Dam, B. O. M. 485 lbs mills, 19.12
lbs. butter in 7 days. Pull sister to calf.
R. O. M. at 2 yrs. 2 mos., 33 lbs. mills, 16.15
lbs. butter in 7 days. Pull sister to calf.
Butter in 7 days. Pull sister to calf.

H. O. M. At 5 yrs. 2 mos, alo me mins, no. in.

No. 2. Dam, R. O. M., 456 lbs milk, 19.43

No. 2. Dam, R. O. M., 456 lbs milk, 19.43

Bus butter in 7 days. Full sister to calf,

R.O. M., 350 lbs. milk, 16.65 lbs. butter in

7 days at 2 yrs. 1 mo old. For prices write

FRED CARR. - BOX 115, ST. THOMAS

TORONTO & WINNIPEG

to any home Write us for free book-

Charles Towns Town

AYRSHIRES

AYRSHIRE CATTLE AND YORKSHIRE PIGS

ATHORITIC LATITE AND YUNKSHIRE PIES.
FOr Saire-Ayrebire Cairee and Bulle,
ft for service. Yorkshire Pigs, 85.00
ft for service. Geo. Al the
above are forgatered, 65.00. Al the
above are forgatered, 65.00. Al the
above are forgatered in orders now,
with instructions re
alipment later. Apply to
BON. W. OWERS, Prop. . or ROBERT SINTON, Mas.
Ellerside Parm, Month Belle, Que.

TANGLEWYLD AYDSHIDES

ARGLEWILD AYRSHIRES

1 YOUNG BULLS (Sept. and Oct. 1981).

21 YOUNG BULLS (Sept. and Oct. 1981).

22 Ye of Same as 2-year-poles: Alfalfa Sept. 1981 of Sept. 1982 of Sept.

Burnbrae Ayrshires
Offer one 16-mos old Bull, it for service. His dam's R. O.P. Syr-old record, \$2.60 its milk and \$29 lbs. butter fat. His stree his milk and \$29 lbs. butter fat. His stree his milk and \$20 lbs. butter fat. His service G-dam. Primroso of Tanglewyld (1984), butter fat. Stree G-dam. Primroso of Tanglewyld (1984), butter fat. Stree His milk and \$25 lbs. butter fat. Stree His milk and \$25 lbs. Also a 3-weeks-old Bull Calf, a full brother to above. Both good, up-to-date in the fat his milk and \$25 lbs. Also a 3-weeks-old Bull Calf, a full brother to above. Both good, up-to-date in \$20.5 HUDSON & SON. LVN. ONT.

Of choicest individual morts, stred by Duke of Ayr. bede on (one of the best bull birdle) of Payr. bed on (one of the best bull birdle) of Payr. bed of P. cow (15.15 lbs. milk and 730 lbs. butter), and from dame of heavy miking strains. All ages. State about what age strains. All ages. State about what age strains and record information as to breeding and record information as to breeding and record information as to breed with the payr. W. W. BALLANTYER & SON. R. R. No. 3. . STRAIFORD, ONT.

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes, Imported or Canadian bred, for sale. Long distance 'Phone in house. R. R. NESS. . . HOWICK, QUE.

Ravensdale Stock Farm

PHILLIPSBURG, QUE. Special offering of Bulls, fit for service. Write for breeding and prices.

MISCELLANEOUS

MAXWELTON FARM Has some of the BEST JERSEY CATTLE in the land. Also BERKSHIRE SWINE. Make your wants known to the Manager,

MAXWELTON FARM

HOLSTEINS

Top-Notch Holstein Bull Calf For Sale

PONTIAC HERMES--The \$700 Bull This calf was born March 19, 1915, and is out of an A.R.O. grand-daughter of Pietertje Hengerveld Count DeKol.

He is a daudy more white than black, deep, straight and strong, good heavy bone, and strongly masculine in appearance.

First cheque for \$100 gets him. Write t ence or come and see him. I'll meet ou in Peterboro on appointment

JOS. O'REILLY, ENNISMORE P.O., ONT.

The Graceland Farm Holsteins

Foundation Cows

Susy DeWitt, 5 lbs. less than 800 lbs. utter 1 year.

Duchess D.K. Calamity, 22.39 lbs. R. of

Belle Mercedes Posch 21.32 lbs. A Sr. 3year-old.

1 daughter of Brook Bank Butter Baron.

1 daughter of Brook Bank Butter Baron.

1 daughter of Gladioius, 24(13) be, milk Bof P., and sire is no-shalf brother to the state of th

ELIAS RUBY, TAVISTOCK, Ont.

W. F. KAY, M. P., Proprietor.

R. R. NESS.

AYRSHIRE BULLS

THE PRICE IS RIGHT

### HOLSTEINS

### Bull Calves, a week to 3 mos. old, from SARA JEWEL HENGERVELD'S SON

JARA JARL HENUKKYELID JAYN
Whose dam produced 23:12 bis. butter in 7
days and was first cow to make over 100
day.—she is dam
of Sara Jevel in note day.—she is dam
of Sara Jevel in the day.—she is dam
of Sara Jevel in the lay of the lay
butter in 7 days: 12:37 lbs. in 30 fbs.
butter in 7 days: 12:37 lbs. in 30 fbs.
butter in 7 days. the lay
and the lay For full particulars address
B. E. HAGERMAN, HAROLD, R.M.D., ONT.

### OXFORD DISTRICT

The Holland of North America is the place to buy Holsteins of quality. The Third aroual sale will be held in the sity of Woodstock on March 25th 1914. Full list of breeders in the Oxford District with post office and station addresses sent on application to:

### R. J. KELLY, SECY, TILLSONBURG, ONT

North Star Holsteins Bulls ready for service, from R. O. M. dams, sired by a son of Natoye De Kol th. record of 26.12 lbs. in 7 days, 106.21 lbs. in 30 days, and nearly 21 lbs. 4th, record of \$2.22 lbs. in 7 days, 166.32 lbs. in 30 days, 26.32 lbs. in 7 days, 166.32 days eight months after calving—largest record in canada.

Also Females, any age, excepting heifer calving control of the cont

calves.
J. W. STEWART. . . LYN, ONT. LYNDEN HERD

High Testing HOLSTEINS For Sale High ItSHING HULDLELD IV SHIP Bulle, fit for service, once a son of spot-ted Lady De Kol. 27.56, and all sired by a son of Lulu Glaser, 5.77. Also Bull Also any Female of a milking age has a price. Write or come and see them. 5. LEMON. LYNDEN, ONT.

Elmridge Farm Offers Limitage farm Uniers tichly-bred young Holstein Bull. born dy 14, 1912, sired by Count Segis Walker eterfie, whose dam has world's record time of test. At 2 yrs., butter 22,2 milk ble.; at 3 yrs., butter 24,5 milk 67, at dam is a young own not yet tested—a dam is a young own not yet tested—a rite for page of a sister of May Echo. ALLOURT, ONT.

Ourvilla Holstein Herd Bulls of serviceoble age all sold. If you want them from here we would advise you to buy young. Only two Colantha Sir Abbekirk and from 2.17 calves left. Both are by Dutchiand and 23.76 lbs. 4 year-olds. Grand individuals 4 months old.

LAIDLAW BROS., Aylmer. Ont.

FOR QUICK SALE FOR QUICK SALE

Two Reg stered Holstein-Pricetan bull
alves, 1 month old, from richly bred
lims. Sired by Kintrom richly bred
lims. Sired by Kintrom richly bred
lims. Sired by Kintrom
lyke whose dawn is Messdow Breed Korn
lyke whose dawn is Messdow Breed
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STE. ANNE DE BELLEVUE, QUE.

Lyndale Holsteins Offers Bull, 12 mos old, nicely colored Weighs 600 lbs. His sire's dam and grand weighs 600 lbs. His sire's dam and grand and grand of the colored weighs 600 lbs. It is days with second calf. Her size in days with the first second calf. Her size in days with the second calf. Her size in days with the second calf. Her size in the second calf. Her size in the second calf. Her size is second calf. Her size

DAIRY FARM The Home of Lulu Keyes, the World's Record Senior 2 Year Old Cow
WE SELL BULLS AND

### BULL CALVES ONLY and offer now A Bull Ready for Service

Write or come to see him. His Pedigree showing High Records

D. B. TRACY COBOURG, ONT.

cossful of the three held by the slub, and the most successful flotzein sale of the kind ever held in Ganda. This was somewhat remarkable in view of the fact that the state of the control of the contro

Sale Toppers Other high-priced animals were the following: Jesse Inka De Kol, a seven-year-old cow with a record of 91 lbe of milk in a day, 26% lbs. in 36 days, and over 2500 lbs. in nine months. This cow was 2500 lbs. in nine months of the control of the co



May Echo Verballa

May Echo Verbelle

\$500. Rowdon Pride. a half-sister of May Scho. commond by the A. Kingston, was bought by G. A. Kingston, was bought by G. A. Kingston, was solven by the control of the

BURNBRAE AYRSHIRE OFFERING. Editor, Farm and Dairy, Burnbrae Ayrshires are coming out in fine spring shape and are ready for a good summer's Ayralires are coming out in fine spring hyralires are ready for a good summer? work, and are ready for a good summer? Are the control of the spring of the control of the c

He is a son of Hengerveld De Kol, who has 136 A.R.O. daughters, 8 over 30 lbs. but-ter, 7 days; 59 offers have made from 30 to 25%. Grand-sons and daughters of this great sire for saie from offi-cial record dams.

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A. D. FOSTER & SONS Bloomfield, R. F. D. No. 2, Ont.

Males, \$50; Females, \$100. Write for extended pedi-

GLENDALE HOLSTEINS

Batter crop of Furshred Holstein Bull Oalves and a limited number of Helfers, wheee three names at the Helfers, wheee three names at the Helfers, the Helfers of the Helfers, H. O. M. at 1 year 11 months (world's re-cord). Luis Keyen, 15,90 lbs, 18. O. P. ac a senior two-year-old (world's record), and as 1, year 12 months (world's record), and at 4 years (world's record). Prices as able. All correspondence promptly ans-wered.

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YOUNG COWS AND HEIFERS HOLSTEINS of different

Bafe in calf to a son of the great bull De Kol the 2nd's Butter Boy the 3rd. Also Yearling Heifers, and Heifer and Bull Calves for spring delivery. Write for

W. W. GEORGE, · CRAMPTON, ONT.

Two Holstein Bulls Fifteen months old, one from a twenty-one-pound cow. Good individuals. R. F. HICKS, NEWTON BROOK, YORK CO.

Avondale Stock Farm A. C. HARDY, PROPPIETOR.

HERD SIRES

Prince Hengerveld Piette, 2136 (59.52),

Ste. Piette 17nd Woodcrest Lad.

Dam, Princese Hengerveld De Kol,

Highest record De Kol,

Right Portine Artis Canada, 15.42 (7.324)

Right Artis Canada, 15.42 (7.324)

Ring Pontine Artis Canada, 15.42 (7.324)

Dam, Pontine Artis Canada, 15.42 (7.324)

Dam, Pontine Artis Canada, 15.42 (7.324)

Low Ladie A. C. HARDY, PROPRIETOR.

### "The Asylum Herd"

Hengerveld DeKol and Pontiac Korn-dyke, the two greatest sires the world has ever known, were raised and owned by us.

We have a few sons from daughters of cese celebrated sires for sale.

PONTIAC STATE HOSPITAL

MR. O'RILEY GOES IN FOR TOP-NOTCH HOLSTEINS.

MR. O'RILEY GOES IN FOR TOP-NOTCH

Holstein breeders generally will be intreested to know that the pure breed, and
A. H. O. backing, are being introduced
into Emisenore township, a part of
A. H. O. backing, are being introduced
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O'Riley had recently dispersed his entire
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to care to the control of the control
her has purchased has had to measure up
Annongst some of the good things Mr.
O'Riley has placed in his new herd as
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Annongst some of the good things Mr.
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ONE OF THE RICHEST COMES TO CANADA.

ONE OF THE RICHEST COMES TO CANADA.

The Pontiac State Hospital, Pontiace, Mich., announce the saie of a Holstein.

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The Pontiac State Hospital Holstein.

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The Pontiac Creamelle Korndyke and Heagerveid Bekol, to Hishard Clarko, Holstein.

The Pontiac Creamelle Korndyke and Holstein.

The Pontiac Creamelle Korndyke.

To Holstein.

The Pontiac Holstein.

The Po

WOODCREST SALE DAY, MAY 28TH. PONTIAC STATE HOSPITAL

When writing us about his sale day, and arranging for his advertisement in Farm and Dairy, Mr. A. S. Chaee, manager of the Woodcrest Farm, at Rifton, Ulster Co., N. Y., sends us some comment about some of the stock they will have about some of the stock they will have been been been some of the stock that the state of the

### HE TRIES IT AGAIN! SAY, YOU TRY IT!

Almonte, March 31, 1913.

Almonte, March 31, 1913.

Farm and Dairy.

Peterboro, Ont.

Last year I advertised my calves in Farm and Dairy and sold from taken to the properties of the

James Moore.

Yes, advertising does it! Try it for your stock. Fix up your and and send it to us for next issue, and have it go out to all "Our People" for several

Mr. Chase writes.— One of the choice animals in our consignment is a grant-daughter of Colontha 4ths Johanna and Piette Enda Wooder, at Ld. This heifer pletter and the second of the colontha and the second of the colontha and in the three days of 32 months, and in the making c.9543 list. of fatt. We shall also work she has given 0.059 list of milk, making c.9543 list. of fatt. We shall also prietted 27 months of 4 months, and the shall also of 4 months of 4

For Sale Holstein Bull Calf

Whose dam we bought from E. H. Dollar. Closely related to his 38-lb. cow. GEO. MOORE & SON. Proton Sta., Ont.

### LAKEVIEW HOLSTEINS

LAKLVIEW HULSIEINS
We are now testing some of the
daughters of Count Hengeweid Fayne
De Kol, and they are running from
18% lies with first call to 38 lies with
18% lies with first call to 38 lies with
25% county below the county
25% county built from these beffers
are offering at half their value, in
are offering at half their value, in
order to make room. They are sired
by Buelahand Cohantha Bir Mona. Come
built and their dame.

E. F. OSLER. - BRONTE, ONT.

### RIVERVIEW HERD

9 Young Bulls, from 2 to 12 months, sired by King Isabella Walker, whose sister, 3 nearest officially tested dams, a sister of his dam, and two sisters of his aire average for the eight 30.44 lbs. from R. O. M. and R. O. P. dams.

P. J. SALLEY. - LACHINE RAPIDS, QUE.

### CAMPBELLTOWN HOLSTEINS

A few sons of Korndyke Yesman Fundiac for sale. Also a number of Cowe and Heifers bred to him. Come to Tillsouthurs if you want to buy Holsteins and I will see that you get them. Farm, North Broad-way, Tillsonburg.

R. J. KELLY, . . TILESONBURG, ONT.



### MAPLE CROVE, CRESCENT RIDGE and WELCOME STOCK FARMS

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Make a special offering in a graudeou five
for service) of the \$1,000.00 King of the
for service) of the \$1,000.00 King of the
futter Kings, out of a 205-bib. Syear-old
Also Buil Gaives, sired by our great King
Lyens Hengerwick, who is beyond dispute
Lyens Hengerwick, who is beyond dispute
the bounding, having more over 10 ha
the Dominion, having more over 10 ha
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the milk in a day
rear ancestors, and being closer related
rear ancestors, and being closer related
from the company of the company
for the H. BOLLERT, R.R. NO. I, TAVISTOCK, ONT 

Owing to ill health I will Sell by Public Auction my Entire Herd of

Registered Holsteins

(All Young)

Registered Holsteins

### THURSDAY, APRIL 17, AT SLATE WINCHESTER,

The catalogues are ready. Send for your copy and in them get full par-ticulars of each individual, breeding, records, etc.

In this sale will be included a son of PONTIAC KORNDYKE, fit for service. He is 75% of the blood of this the greatest Bull that ever lived. Be at the sale and get him!

purchased this son of Pontiac Korndyke from Mr. E. H. Dollar, of Heuvelton, N. Y., early in the winter, I expect Mr. Dollar will be

Lunch will be served at noon on the premises. Carriages will meet all trains on day of sale. In case of inclement weather, sale will be held in the barn, since we have a barn 130 long by 54 feet wide thus giving plenty of room. Be sure to come to this sale. Write now for Catalogue. It is your last opportunity to buy a son of Pontiac Korndyke in Eastern Ontario this year.

EZRA F. SUMMERS, Prop., WINCHESTER, ONT.  April

The "mor seed depth drill stunt deep sagge "Cool I-bear usage

You from ting des aport The evaporand of The easily droug July.

# COCKSHUTT DRILLS SAVE SEED



### How It Gets More Crop

u.T

The "Cockshutt" gives you "more" crop from the sam seed by sowing just at righ depth in the center of the dill. No seed is killed stunted or delayed by too deep sowing from a machine deep sowing from a machine that the seed of the see

You get "more" crop also from the zig-zag, close set-ting of the disce only 6 inches apart, instead of 7 inches. The crop is so close thre evaporation is prevented, and sturdy growth insured. The ground cannot "crust" easily — a big cause of drought trouble in June and July.

HE drill you use must be able to make every seed it sows count towards your harvest. By construction and design, the "Cockshutt" Seeder sows at right depth, sows evenly, sows without choking, sows without clogging, sows without gathering trash, and sows I inch closer than ordinary drills, row beside row.

Learn everything about the "Cockshutt" Drill, and you will certainly buy it. Buy it, and it will give you 3 to 5 extra bushels of crop per acre, year after year.

RITE for Catalogue of Cockshutt Drills, or see the nearest Cockshutt or Frost & Wood Agent. He will gladly explain the Drill to you

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The "Cockebutt" is a speedy machine. The dises have ball bearings and a season's supply of oil The season's supply of oil The season's supply oil The

The net result of these features is the important one of saving you considerable wages during planting time, and the more important result of getting your seed in promptly to take full advantage of growing weather.

For Sale in Western Ontario and Western Canada, by

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BRANTFORD, ONT.

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When you invest good money in a wire fence you want that fence to LAST-to stay taut and staunch year in, year out, without needing repairs every spring
And you get fence that lasts when you choose "IDEAL" Farm Fence-it's made with you in mind-made to be THE fence for the man who

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Just Trust "Ideal" Woven Wire Fence The galvanising stays with it; the lock wor't looses under any strain a fence with control with law to the loose under any strain a fence with control with law to the law to th

Glad to send you details of all the many "IDEAL" styles \_there's one for every fence Drop a card for cata

The McGregor Banwell Fence Co Walkerville, Ontario

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YORKSHIRE PIGS, all ages, either eex. Choice Young Boars, it for service. Also Sows of all ages, bred and heavy with pig.—H. C. Benfield, Woodstock, Ont.

FOR SALE-Select Clydesdales and Hol-stein stock. R. M. Holtby, Manchester.

FOR TAMWORTH SWINE-Write John W Todd, Corinth, Ont. R. F. D. No. 1.

Strawberry Plants

I have choice Strawberry Plants for sale in large or small quantities at very resonable prices. WILLIAM B. LEAVENS
"Leavens Orchards," Bloomfield, Ont.

John J. Thanshill, White Station, que, when writing to Farm and Bairy recently the wood of the two comes and the wood of the w

BOLSTEIN-IRIESIAN NEWS
Farm and Dairy is the official organ
of The Canadian Holstein Friendan
Association, all of whose members
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MR. TANNAHILL BUSY.

John J. Trannahill, White Station, Que,
where the control of the control of



On Their Way to Convert Prairie Grasses into Holstein Milk

Growing wheat, marketing the grain and burning the straw, is a farming system that never appealed to Mr. W. J. Tyreglins, of Cagary. Alta. He has been in dairying ever since he went to Alberton and the man now established one of the finest Holstein herds in the province, number is 70 or 80 head. And he has made more money than his grain growing neighbor in the Hossarrnock Holstein herds in the growing neighbor in the Hossarrnock Holstein herds in the steins may be seen in the illustration.

March 25, on all animals seiling for \$300 or over;
Consigned by T. L. Dunkin, Norwich Conserved Trion Jessel, price \$300, now own-conserved Trion Jessel, price \$300, now own-conserved Trion Jessel, price \$300, now own-conserved Trion Jessel, white J. M. Pellatt, White, T. Consigned by C. Bollert and J. Leuwsler, Conserved Bachel Lee, \$300, T. L. Dunkin, Norwick Bachel Lee, \$300, W. R. Cowing, Innerkip, Ann. \$300, W. R. Cowing, Innerkip, Ann. \$300, W. R. Cowing, Innerkip, Ann. \$300, W. R. Cowing, Innerkip, Madam Pauline Canadam P

Woodstock.

Consigned by P. D. Ede, Oxford Centre-Centre View Gentle Canary Norine, \$250, 8ir H. M. Pellatt; Centre View Wayne Norine, \$300, 8ir H. M. Pellatt; Cornelia Posch Cornucopia, \$200, A. E. Cromwell, Norwich.

Posch Cornucopina, row, A. E. Stransver, Norwich, Norwich, Norwich, Norwich, Chromobile, Posch Carlot, Posch Carlot, Posch Carlot, Posch Carlot, Norwick, St. St. H. M. Pellatt, While J. S. Bettie, Norwich: Canary Butter Gr. Jack Carlot, Posch Carlot, Posch Carlot, Posch Carlot, Posch Carlot, Posch St. St. M. Walter, Burgeseville, Carlot, Posch St. St. M. Walter, Burgeseville, Jack Carlot, Posch St. St. M. Walter, Burgeseville, Carlot, Posch St. St. M. Walter, Burgeseville, Carlot, Posch St. St. M. Walter, Burgeseville, Posch Princess, St. St. R. M. Walter, Pollatt, Pollatt

Jennie Posch Princess, 8210, 817 H. M. Polinie V. Geo. Oliver, Bright: In Kol. Beauty, 8525. Louis Seebach, Schring-Tile. Gigned by H. Bollers, Cassal, Oliver, Bright: In Grand by H. Bollers, Cassal, Oliver, Bright States, 1988, 1989,

Oonsigned by Pred Bowe, Curries, Ont.: Canary Clothilde, Sizo, br. Consigned by Pred Bowe, Curries, Ont.: Consigned by Pred Bowe, Sizo, R. J. Kelly, Tillsonburg: Abbelser's Bright Belle, \$300, Sir H. M. Pellatt.

dairying ever since he went to Abertal line. Of Calgary, Alia. He has meen more than his grain growing neighbors. A few of the control of the

# What's in This Bag?

FERTILIZER

FERTILIZER-Yes, but what kind of fertilizer? This is the all im-

The average mixed fertilizer does not contain enough Potash to produce

the biggest crops.

Agricultural authorities will tell you that most crops remove from the soil two to three times more Potash than Phosphoric Acid. Yet the average mixed fertilizer contains about \$\foatstyle{S}\$. Phosphoric Acid and only \$\foatstyle{S}\$ proposed to the property of the

only revining.

If he cannot supply you and you are compelled to buy low grade fertilizer, add enough Potash to this to increase the Potash content to the required amount. If you will write us our experts will tell you how. We will also send you proof that

Decide now to get the right crop from your soil by using high grade Potash fertilizers. Your harvest will be larger than ever before—and of im-

proved quality.

If you want to, you can mix your own fertilizer at home-our Scientific Bureau will tell you how. We are at your service at all times with regard to proper fertilization of your crops.

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40.800 LBS MILK . FOR

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SIRE - HELENA'S BUTTER BULL

AGGREGATE WEIGHT OF 3 CALVES

AM - DEKOL MUTUAL COUNTESS

Hill-Crest

'De Kol Mutual Countess'

3 Years, 3 Months of age (2nd Calf)

Rauwerd Count De Kol Lady Pauline Jr. 5-Year-old, In

12 MONTHS

SIRE-Sir Admiral Ormsby DAM-Rauwerd Count De Kol Lady Pauline

Weight at II months 840 lbs. His Sister by Sire "Jennie Bonerges Ormsby," made 33 lbs. Butter in 7 days. His first Sister in milk by Dam made World's Record as Jr. 3-year-old.

De Kol Mutual Countess

DE NOI MULIAI COUNTESS
Dam of Dekol fad Oount Dekol and test sister in milk of "Hill forest promby Gount" and "H.C. Ormsby Book). He Bellewing records in milk and butter:
Milk 1 day, Jr. 5yr.old, 99.3 ba. (Can. Record).
Best previous 13.04 ho. 666 ba (World's Record).
Milk 7 days 8 mo. after calving, 4158 (World's Record).
Best previous 53.0.
Goodl. Best previous 53.0.
Best previous

Record).

Butter 1 yr. R. O. P., 880 lbs. (World's Record).

Best previous 78 lbs. in 8 mo. duration.
As a Jr. 5-yr.old (Ind. calf) she exceeds best

Ganadian 7-day Record made by cow any age, held
by "May Boho." by 60 lbs milk and 2.5 lbs. butter.

HILL-CREST HOLSTEINS have Type, Production, and Reproduction. Hill-Crest Herd Bulls each have a Dam and Gr.-Dam with over 20,000 lbs. milk in 1 year. We Self HOLSTEIN Bulls that WILL Reproduce these good qualities in a marked degree.

PRESENT OFFERING HILL-CREST ORMSBY COUNT HILL-CREST ORMSBY DE NOL

You want your next Bull to be something better? These two will fill the bill. Their Brothers head nearly all the Government Herds in Canada. Their Dam gave 92 lbs. milk in 1 day, 20,000 in

**Holsteins** 

MAKE 40.800 MILK

"After giving birth to

3 CALVES

Whose Aggregate Weight at 111 mos. is

2.555 lbs.

SIRE-Sir Admiral Ormsby DAM-Rauwerd Count De Kol Lady Pauline

Weight at 11 months-840 lbs.

His Sister by Sire made 33 lbs. in 7 days at 5 years, 832 lbs. Butter in 1 year R.O.P. at 2 years (World's Record).

His Sister by Dam at 3 years 3 months made 19.22 lbs. Butter, 415.8 lbs. Butter 10 months after Calving - World's Record. 20,686 lbs, Milk, 880 Butter in 1 year R. O. P. (World's Record for Jr. 3-year-old).

about II mos., (her sire is **full** brother to "Beauty Rauwerd De Kol," 119.6 lbs. in I day), and best of all, she has produced a "World Beater" in her first daughter to milk. These Bulls have World's

Beater" in her first daughter to milk. These Bulls have World's Record Sisters on BOTH Sides.

Send for extended pedigree, and know Why you should buy "Count" or "De Kol." Just take in their make-up. They look the part. If you want an ordinary bull, don't will be been these of the world will you want the BEST, we will be pleased to have you ask us to show you. Write, 'phone, or better, Come.—Yours for the Best in

C. P. R. Main Line To onto to Montreal G. A. BRETHEN, NORWOOD. ONT., Belleville District

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Yours truly, A. D. Foster & Sons.

St. Thomas, Mar. 17, 1913.
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Just consider for a moment what you get when you have your ad, in Farm and Dairy! Over 16,000 POSSI-BLE BUYERS get your message. These possible buyers are LOCATED ALL ACROSS CANADA, away down in Nova Scotia and New Brunswick, through the Provinces, and a big lot out in British Columbia! You get answers from these people. You discover exactly the state of the market. You get the most advantageous mar-

Frankford, March 14, 1918.
Mr. Chas. C. Nixon,
Dear Mr. Nixon,—From the
full page ad. you placed in
Farm and Dairy for me
Farm and Dairy grantfring.
It has proved to grantfring to the cheeps the provided to the provid



ket for your pure bred live stock. You get your own prices when your stock is worthy and you have confidence in it.

Consider Mr. Brethen's big ad. above this week, and Consider Mr. Brethen's big ad. above this week, and Mr. Gordon S. Gooderham's advertising in Farm and Dairy every week! How else could they get that information to you and to over 16,000 other possible buyers as well, and at so little cost?

Have you the stock and have you the desire to make the most of it, and make good sales for it now, and in the years to come? Then get touch with Farm and Dairy and arrange to have us put up invaluable service like this for you, and which will pay you well!

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# Greatest Cows the World

Valdessa Scott 2nd Beats

All Ages All Breeds

The World



Valdessa Scott 2nd.

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# Smashes All Previous Records to Smithereens!

Take off your hat to Valdessa Scott 2nd—the "Wonder Cow" of the world. She certainly is entitled to such recognition. She has more than done herself proud and accomplished a feat never before attained by any cow in the world of any breed or age.

In thirty days' test she produced 2933.9 pounds of milk and 165% pounds of butter. Her one day percord is 108.6 pounds of milk and 6 pounds of butter.

Her one week record (7 days) is 695.1 pounds of milk and 41.875 pounds of butter. What do you think of do you think of do you think of do you think of a week record 12 days is 695.1 pounds of milk and 41.875 menal! Unparalleled! Her milk tested 4.70 per cent butter fat.

All of the above tests were conducted by W. D. Golding and Prof. Alfred S. Cook, of the New Jersey Experiment Station. Naturally you wonder—what sort of ration was fed. Here are the words of her owner—he tells it in a letter just received. Finderne Stock Farm, Finderne, N. J.

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Gantlemen: During the gast two or three years we have been feeding your SCHUMACHER FEED and have secured gastering the gast two or three years we have been feeding your SCHUMACHER FEED and have secured gastering the year of the producting test. Used as a base with a good protein concentrate it is a winner.

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Now read what the owners of other World's Champion and World's Record Breaking cows have to say of this wonderful feed. Springvale Stock Farm-Home of Colantha 4th's Johanna.

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Gestlemer: — Rehylying to yours of the 3rd we are making Schumacher
Feed one-third part of our herd ration and we are getting results. Several
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Yours very truly.

Rosendale, Wis.

W. J. GILLETT.

Stevens Brothers Co., Nome of Pontiac Artis.

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The output of the outpu We count ourselves fortunate in finding a ration ments so fully as Schumacher Feed. Yours very THE STEVENS BROS. HASTINGS CO.





Colantha 4th's Johanna

d by W. J. Gillett, Rosendale, Wi is the champion long-distance cow of the world. Her official record for 365 days is 27432.5 pounds of milk, and 993.25 pounds of butter fat.

100 Lbs

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