

By "Your Uncle Henry

with him while he was finishing up

To my nephew's queston I repli "The West is a great country. But you know we have things here in On-

tario that they have not got out there

and I tell you Ontario suits me pretty well," "But," said my nephew,

well." "But," said my nephew "don't you think a fellow like m

IT PAYS TO HAVE A MAN

"Well," said I, "don't you think it would pay you to hire a man? If one man working with his own two hands

man working with his own two index, could get rich quick that way, why, man alive! all of the laboring men would be rich! I tell you it would pay you to have a man. Hire him by the year. Then see to it that he

has enough work to do that will bring

you in enough to pay his wages and a profit besides. It seems to me it is

time enough for you to think about going out West and looking for a

country of greater opportunities, when you have gotten to the limit

of the possibilities right here on your

own farm, where you have oppor-

tunities, comforts and many kinds of

advantages that you could never have

You have no silo. Yeen grow no corn. You have no silo. Yeen grow no corn. You feed the cows you have on hay and grain. These are expensive feeds. They will not make milk as well as corn fodder, or, better still,

corn ensilage, and they cost you much

mcre to produce. I know it would pay you to build a silo. It would pay

you to grow at least 10 acres of corn

on this 100-acre farm. "Then you should have some alfalfa.

You knew it equals or almost equals

bran in protein content-that protein

you know being the stuff that makes

wilk and muscle, and which is so ex-pensive to buy when you get it in mill feeds or other stuff you buy upon the

A WELL-TIMED CONCLUSION "Now before one ought to think of

going elsewhere, he ought to develop these things at home. He ought to do his best here, and then, if things do not go to suit, it is plenty of time

to change and lock for new fields to conquer, even over the distant hills, which always look so green."

Like the Dutch uncle that I am,

talked to my nephew about several other things along this line, about which I have been reading in Farm

'I see you do not keep many cows.

out West!

market.

his chores.



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(2)

Let The B-L-K Milk Your Cows !

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We have recently placed B-L-K Mechanical Milkers with two of the best milk dealers of the City of Ottawa. We have a number of users of B-L-K Milkers in Canada, the plants installed are giving Good Satisfaction.

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Great Xmas and Annual Breeders' No. - Dec. 5th THIRD ANNUAL **TORONTO FAT STOCK SHOW** and Second Annual Exhibit Union Stock Yards Poultry Breeders Association Union Stock Yards, Toronto Tuesday and Wednesday, Dec. 10th and 11th -1912 BRADE, PURE BRED CATTLE, HOGS, SHEEP, POULTRY **Executive** Committee MARTIN J. GARDHOUSE ROBERT MILLER, President J. H. ASHCROFT, JR., Gen. Mgr. PROF. GEO. E. DAY For Premium List and Entry Blanks, address C. F. TOPPING, Union Stock Yards, TORONTO

November 21, 1912.

to scold us over being such a long while doing up those chores

During the evening, before your Aunt Maggie and I left for home, my nephew introduced a new subject by getting out the Saturday's Glob reading to me a portion of Pete-Me Arthur's writing, which brought out another idea I would like to discuss.] will have to leave it for another time Lut before I close I will give you the main idea. Think it over and 12

main idea. Think it over a talk about it next time I write

talk about it next time I write. A NEW HORA YON US PARKNERS "The producer and the sale-man are twe entirely different beings. Anyone studying farm conditions is bound to see that farmers naturally fall into two classes — the producers and the traders. Those with a beau for business—who have a faculty for huming and calling, often provided buying and selling—often prosper, while these who rely on producing seldom prosper, and often become so seidom prosper, and orten become so discouraged that they even fail as producers. An investigating psy-chologist would certainly find a great choiogist would certainly find a great difference between the man whose bent is to deal with nature, and the one who is able to deal successfully with his fellow-men. The producer is 'don't you think a fellow like me-could get along much better out West? Of course yeu know I have things pretry cosy down here. I own this 100-acre farm, and it is a good farm too, and I have gotten now that I can get along and do nearly all of the work myself. I don't need to hire a man any more. But somehow I don't seem to get along the way I think I should." with nis fellow-men. The producer is entirely handicapped when it comes to getting a just reward for his laber. Therein it seems to me is the most difficult problem with which educa-tionists and economists have te deal."

Distribution of Seed

A distribution of superior sorts of and potatoes will be made durgrain ing the coming winter and spring to Canadian farmers. The samples for general distribution will ecnsist of general distribution will censit of spring wheat five pounds, white oats four pounds, barley five pounds, and field peas five pounds. These will be sent out from Ottawa. A distribution of potatoes (in three pound samples) will be carried on from several of the experimental farms, the Central Farm at Ottawa supplying only the pro vinces of Ontario and Quebec. samples will be sent free, by mail.

samples will be sent free, by mail. Applicants must give particulars in regard to the soil on their farms, and some account of their experience with such kind of grain (or potatoes) as they have grown, so that a promising sort for their conditions may be selected. Each application must be separate and must be signed by the appli-cant. Only one sample of grain and one of potatoes can be sent to each farm. Applications on any kind el printed form cannot be accepted. If two or more samples are asked for in

As the supply of seed is limited, farmers are advised to apply early; but the applications will not neces-sarily be filled in the exact order in which they are received. Preference will always be given to the most thoughtful and explicit requests. Ap-plications received after the end of

January will probably be too late. All applications for grain (and applications for grain (and Ontario and Quebec for potatoes) should be addressed to the Dominion Cerealist, Central Experimental Farm, Ottawa: Such applications require no postage. If otherwise ad-dressed delay and disappointment may occur

Applications, for potatoes, from farmers in any other province should farmers in any other province should be addressed (postage prepaid) to the Superintendent of the nearest Branch Experimental Farm in that province.-J. H. Grisdale, Director, Dominion Experimental Farms. which I have been reading in Farm and Dairs and practicing on my own farm. He agreed that I was right and that it would pay him to keep more stock, grow more cheap feed and have a silo to keep corn in, so that it would be in the best shape for feeding through the winter.

I would not be surprised to see in the next issue of the Holstein Friesand have a silo to keep corn in, so that it would be in the best shape for leeding through the winter. When we got back to the house we from it is a suppose that we will when we got back to the house we found it late: the worsen folks set in Dimick, Woodcreet Farm, N, Y.

Issue Each V

Vol. XXX

A Story of He Herds in

OST VI famil readers hav he has mad cattle. Mr. of being a his home fa eight miles the St. Lawr

It is only breeding pu he has mad lars and has stein herds visited rece Farm and his herd con of cows in r years 50 co averaged 12, each. This ible, but wit more about will realize sible to bring standard. to New York where it aver \$14 for 40 q cream. The the farm.

AN O The farm

lives was set father 76 yea 430 acres, of cultivation. are grown, in Mr. Dollar I has had a lit He intend

Mr. Dollar but left it wh became a ste dard Oil Com since met wit business expe this position. editor, "I obt ceived in any me what to c work, because has led me als thing done of repeat an unp Dollar got tir farm.

"Some of m said Mr. Dolla



HOW A GREAT HERD OF PURE BRED CATTLE WAS FOUNDED

V & A Story of How Mr. E. H. Dollar, Heuvelton, N.Y., Has, in Eight Years, Established one of the Greatest Holstein Herds in America. His Own Explanation of his Outstanding Success and Something About his Herd.

OST of the readers of Farm and Dairy are familiar with the name of E. H. Dollar, r or Heuvelton, N.V., but only a few of our readers have heard of the outstanding success he has made of the breeding of pure Holstein cattle. Mr. Dollar came within about eight miles of being a Canadian. That is, he was born on his home farm at Heuvelton, which is only some eight miles from the Canadian border just across the St. Lawrence River from the town of Prescott. It is only eight years since Mr. Dollar started beeding pure bred Holsteins. In the interval,

he has made thousands upon thousands of dollars and has built up one of the most noted Holstein herds in the world. When his farm was visited recently by an editor of

Farm and Dairy, we found that his herd comprised some 70 head of cows in milk. For the last two years 50 cows in his herd have averaged 12,155 lbs. of milk a year each. This seems almost incredible, but when you learn a little more about this great herd you will realize how it has been possible to bring the herd to this high standard. The cream is shipped to New York City, 430 miles away, where it averages, net on the farm, \$14 for 40 quarts of 40 per cent. cream. The skim milk is used on the farm.

AN OLD HOMESTEAD

The farm on which Mr. Dollar lives was settled on by his grandfather 78 years ago. It comprises 400 acres, of which 300 are under cultivation. Corn and clover hay ma are grown, including some alfalfa. Mr. Dollar likes the alfalfa, but has had a little difficulty growing it. He intends, however, to stick to bi

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Mr. Dollar was born and raised on the farm. but left it when he reached young manhood, and became a stenographer in an office of the Standard Oil Company. Much of the success he has since met with on his farm he attributes to the business experience he gained while he occupied this position. "From it," said Mr. Dollar to our editor, "I obtained a better education that I received in any school I ever attended. It taught me what to cut out, both as regards crops and work, because of their being unprofitable. It has led me also to keep a book account of everything done on the farm, so that I need never repeat an unprofitable experience." In 1899 Mr. Dollar got tired of city life and returned to the farm

"Some of my neighbors did a lot of talking," said Mr. Dollar, "when I started to run the farm, as they thought I lacked experience and would soon make a failure of it. It did not take me long to notice, however, that they were no farther ahead with their farm operations than they had been when I left the farm.

"When I started I thought one Holstein was as good as another. It took me some time to find my mistake. When I started I stocked up with only ordinary animals. That I had made a mistake by so doing did not come home to me until I had some young stock for sale. Then I found that almost all the other breeders had equally as good stock as I had, and that they also were trying to sell. I, therefore, had no special advantage over them, and it was not an easy mat-



Simple Sanitary Arrangements Such as are Now Common in Breeders' Stables

It was a common saying at one time that the better bred a man's stock the poorer ere his buildings apt to be. This is not so now. Breeders of pure-bred stock the wallse that good stock descrives good stabiling, and that good stable man along no nor the stabiling about the greater satisfaction that the breeder himself will get from lollar, flewington, N. Y. undings. The model stable have depicted is that of E. H s told in the article adjoining.

ter for me, a young breeder, to dispose of my surplus. I then suspected what I have since found to be true, that if a breeder has just a little better stock than his competitors he has no difficulty selling it, as that is the class of stock which the men with money are looking for.

WENT AFTER GOOD ONES

"When I found my mistake I had about 10 cows. They milked well, but were not high testers. I, therefore, decided to get rid of them and to purchase some of the best stock I could get hold of, even if I had to pay a pretty good price to do so. With this intention I started to hunt for such animals as I wanted. This search resulted in the purchase, seven years ago, of Pontiac Korndyke, for \$1,000, and a bunch of yearling heifers for \$100 cach. These seemed awful prices to me at that time, but now I don't think much of paying 1,000 for a good heifer and several times that amount for a high-class bull.

"Such success as I have had has dated from that time. Pontiac Korndyke soon developed into the streatest Holstein bull that ever lived. He has 84 officially tested daughters, whose average test is 4.08 per cent, of fat. Twelve of his daughters have official records of over 20 lbs. of butter a week, and all but one of them have been bred or developed here on my farm."

No better evidence of the great prepotency of Pontiac Korndyke need be furnished than the fact that bis daughters have all made much larger records than their dams. Pontiac Pet, one of his daughters, has a record of 25,340 bhs. of milk in a year. She was bred from a dam having a record of only 13 bhs. of butter in seven days. Pontiac Clothilde 2nd, with a record of 37.21 bhs. of butter in seven days, was out of a dam with a record of 33 bls. of butter. Another

of his daughters, Fairview Sadie Korndyke, with a 36.20 lb. record, was out of an untested dam. His record has shown him to sire good ones out of any kind of a cow. "I have bred a number of his daughters back to him with excellent results, including Pontiac Lady Korndyke, the cow which held the world's records for seven and 30 days," said Mr. Dollar.

SOME BIG PRODUCERS

In view of the large number of noted large producers included in Mr. Dollar's hird, readers of Farm and Dairy will begin to understand how it is that 80 animals in it averaged over 12,000 lbs. of milk for a year. Two of his animals, Pontiae Pet and Pontiae Darkness, between them averaged 25,000 lbs.

Other noted females in this herd included Pontiac Queen Korndyke, whose production last year exceeded 22,000 lbs. of milk, and who,

during the first five months of lactation this year produced over 500 lbs. of butter fat. Pontiac Lady Korndykke gave 21.800 lbs. of milk last year as a four-year-old, and last spring, after being dy less than six weeks, produced 38.02 lbs. of butter in seven days and 166.02 lbs. in 30 days. This great cow, when she made this record, raised the best previous 30 day record by over 11 lbs. She also produced 207 lbs. of butter in 60 days, which was about 40 lbs. greater than the best previous 60 day record.

Still another great producer last year was Bell Pittertije De Kol Parana. She gave a little over 20,000 lbs. of milk in the year, and lacked only 12 lbs. of producing a ton and a half of milk in a month, which was more than twice her own weight. Not being a high tester, she has not got as good a record for butter production as some of the other animals in the herd, although 1192 (4)

she has the exceptionally good record of 30.11 lbs, of butier in seven days as a seven-verar-old. Another animal worthy of mention is Lady Korndyke Pauline De Kol, with a record of 20.14 lbs. of butter as a four-year-old. Last year, she prodaced just a few pounds under 21,000 lbs, of milk after dropping twin calves.

THE OLD BULL'S DAM

The dam of Pontiac Korndyke is another proof of the ability of a good cow to transmit her qualities to her offspring. She was Bell Korndyke, and produced a calf every year until she was 21 years old. "I saw her," said Mr. Dollar, "when she was eighteen years old, and she then did not appear more than eight years of age. She has a record of $\mathfrak{B}5.77$ lbs, of butter and 509.8lbs, of milk in seven days. Her average per cent. of fat was 4.04."

Another bull in this herd which has already proven his worth is Sir Johanna Colantha Gladi. Mr. Dollar paid \$2,000 for him when he was two months old. At that time he was the highest bred bull living, being out of Pontice Gladi, which as a four-year-old had produced 32.01 lbs. of butter in seven days. The average test of his two nearest dams was 33.61 lbs. of butter, his sire's dam, Colantha Fourth's Johanna, having a record of 35.22 lbs. of butter. She is the great Wisconsine cow. "I bought him three years ago," said Mr. Dollar, "to here to the daughters of Pontias Korndyke."

At the time Mr. Dollar bought Pontiac Korndyke, he also bought 10 of his daughters. At that time they had not been tested. All have since made good. One of them, Pontiac Rag Apple, sold for \$8,8000. 'I paid \$600 for her,' said Mr. Dollar. 'She and her two sons between them netted me \$17,000. She was the greatest money making female I have ever had on the farm.

"Pontiac Korndyke is a little over 14 years old, and I still hold a half interest in him. When he was nearly 11 years old I sold a half interest in him for \$2,500. (Note .- See the introductory article page 3, October 17th issue of Farm and Dairy, for an acount of what this great bull has done to enrich the breeder, Mr. H. B. Davis, of Chester, N.Y., who bought this half interest. -Editor.) This year 16 cows from outside herds are being bred to him at a fee of \$500 a Many farmers tell me about their cows, COW. and claim that if I had them I would be able to make 30 lb. records with them. I have my doubt on this point, as the only cows with which I have been able to obtain 30 lb. records have been those bred from the old bull."

Several Canadian breeders have appreciated the stock that Mr. Dollar has for sale, and have secured several splendid animals at long prices. A list of some of these Canadian purchases is published on page 25 of Farm and Dairy this week

FARM BUILDINGS

Our editor was able to spend only about an hour with Mr. Dollar. Unfortunately his stock was out in the field, and could not be inspected. Mr. Dollar has a comfortable home and attractive barns. Beside the house is a garage in which his automobile is kept, he being one of those farmers, now becoming somewhat numerous, who can well afford to keep an automobile. The cow stable is large and comfortable and well-lighted.

While we were with him, Mr. Dollar gave directions to his men regarding the work they were to do during the afternoon in a manner which showed how carefully he kept track of their work, as well as of the general work of the farm. His private office was such a one as we frequently read about but seldom see on a farm. From it he had telephone connection with the barn and the city. In it were a commodious desk, easy chair, and books that showed the business instincts of their owner. In the corner was a safe,

something we suspected that might be needed on such a farm.

While Mr. Dollar's success has been unusual, and is one that cannot be duplicated by many still it should afford encouragement to all breeders of pure bred stock. No person can tell how successful they may be until they have launched into the business with the same faith and foresight that Mr. Dollar used when he made his start.—II. B.C.

A Mortgage May be a Blessing L. K. Shaw, Welland Co., Ont.

Duncan Anderson, farmer and Institute lecturer, once said that a mortgage was about the best thing to have around the farm, providing the right man owned the mortgage.

Mr. Anderson was right. Money raised on mortgage and invested in good stock, needed improvements in the buildings, tile drains, upto-date machinery and so forth, will bring much bigger returns than would the same money in vested in land. And yet in every part of this country of ours are farmers working with inadequate equipment rather than have a dollar against their farm.

I recently heard of a young fellow who is making this mistake of trying to farm without capital. Two years ago when he got married his father gave him a 100 acre farm, free of debt, a cow or two, and with what cash he had he purchased household furniture and some machinery.

THERE IS NO INCOME

That young man has now been farming two years, and if anything, is farther behind than the day he started. He has not stock enough to bring him any returns worth while from that department. He sells some grain, but as his farm was in a somewhat run-down condition when he got it, his grain crops are short. He has no November 21, 1912.

now, but have not made a start to get either.

"The greatest need of the farmer to-day is more capital and cheaper capital," said one of them to me. "If we had that capital we would get that silo and at least a few Ayrshires this summer. But I do not see where it is coming from."

When I suggested mortgaging the farm to get some working capital, the very idea seemed to frighten them. They seemed to think that they would lose their own self-respect as well as case with heir neighbors did they take a couple of thousands of dollars out of the farm where it might have been yielding them three or four per cent. on the investment, but certainly no more, and invested it in dairy cattle where it would yield them anywhere from 10 to 100 per cent. The latter, of course, was good buisness, but it hardly looked respectable to them.

A GOOD FARM AND MORTGAGED

W And here is another instance that illustrated just how the plan of securing capital that I and proposing works out. Only a few weeks ago 1 visited the home and farm of one of the most successful breeders of pure bred dairy cattle in this country. He had a fine farm, a fine home, and splendid stock. There was evidence on every hand that he was making money off his farm. That evening as we strolled through the pastures looking at his stock he told me something of his history as a farmer and of his present financial condition. When he first started in farming for himself he had a very limited capital. He bought a farm, but put very little of his capital into it; in fact, just enough to secure the deed. rest went into machinery, stock, improvements in the buildings, and so forth. That was 14 years ago.

"But surely you have your farm all clear now?" I remarked.

"No," said he, "I haven't. I don't suppose



The Home of one of the Best Known Pure-Bred Holstein Herds in America

The linearism herewith will give Parm and Dairy readers an idea of the extent of the splendin farm builds ingo that house the Holstein herd of E. H. Dollar, Heuvelon, N course of exection. Notice the lighting of course the full pully had the linear wall length is in window gians. Notice also that provision is made for ventilation. Two important features too frequently missing in the stability of dairy farmers.

manure to fertilize the land and no money with which to buy commercial fertilizers. In fact, were it not for the machinery that he borrows from his father-in-law, he would not be able to farm his land at all.

How much better off that farmer would be did he take out a mortgage for \$1,000 or \$2,000, buy some machinery, stock up with a good bunch of dairy cows that would bring him in returns every month of the year and then, instead of continually impoverishing his farm, he would increase its fertility.

And still another instance. Not long ago 1 was visiting a fine farm in an eastern Ontario dairy section. The farm was in good heart, had fulry good buildings, and a fair supply of machinery. The dairy herd, however, was of the regular 3.000 pounds of milk a cow variety. The boys on this farm had visions of a silo and a herd of good, pure bred Ayrshire cattle on the farm. They have had that same idea for some years I ever will. I couldn't afford to pay off the mortgage. I have the mortgage at five per centinterest and I can invest every bit of the capital I can get my hands on where it will yield me 20 per cent. at least—in "are bred stock. Just looking at it in a business manner, could I afford to take 20 per cent, money and make a five per cent. investment with it in land?"

MONEY ON SHORT NOTES

A foolish measure that farmers sometimes resort to to get ready money is taking it on numcross short time notes at a higher rate of interest. They could secure the money cheaper and moreasily on mortgage. They are no safer taking ' on notes as both their land and their stock arliable for the payment of those notes, quite as much as if they had a mortgage against the farm I, like Duncan Anderson, believe that a morgage is one of the best things on the farm if the

gage is one of the best things on the farm if the capital obtained thereby is properly reinvested on the farm. Novem

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We ven supply ou necessary The oxyg into the si to chemics find that i chemists most seve appreciate animals' i



The illus cultural Ext are all repr the beckeep It, of all population tion of the

our stables We all k nace burn draught: ti oxygen to wood in ou warmth of principle, t Every mov tion of oxy; in this con through th is open if i

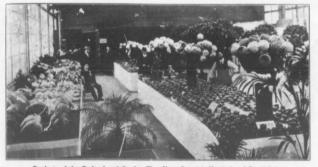
I do not a cow user, couldn't po supply the they would vision for a the fresh stable. Th A ventilati there is no

There at have seen i ford. We built, as at as much al learned lat gular inter souare. C ing a space the box an knocked ou abled to g stable, but guard furt was placed the wall a

Ventilation in the Stable E. F. Eaton, Colchester Co., N.S.

We ventilate our stable in order that we may supply our cowe and horses with one of the most necessary parts of their daily food, oxygen. The oxygen of the air is food. 'It enters right into the substance of the animal. If we were to chemically analyze the body of a cow we would find that fully half of its weight is oxygen. The chemists who analyze milk tell us that it is almost seven-eighths oxygen. Did we sufficiently appreciate the importance of this oxygen in the animals' food we would have a better appreciaat either bottom or top. Our shafts for the escape of foul air run from the centre of the stable right to the ridge.

The King system that I have also seen in operation works on a different principle. The opening for the entrance of air on the outside is on a level with the stable floor. The air is conducted to the ceiling through the box provided for it, and enters the stable at the ceiling and from there filters down to the cattle. A convenient way to make provision for air where the wall is of frame is to have the space between two studs for an air shaft, cutting an opening at the



Products of the Orchard and Garden That Show Ontario's Horticultural Possibilities

The illustration herewith gives one an idea of the extent of the interest represented by the Ontario Horticulural Exhibition held in Toronto has week. The interests of the fruit grower, vegetable gardener and florit are all represented in this scene: and it is just consfith of the entire exhibit. Elsewhere exhibits representing it, of all our institutions, stands for that intensive system of agriculture that will become more common as population increases.

tion of the necessity of a ventilating system in our stables

We all know that if we would have our furnace burn well that there must be a good draught; that is, there must be a good supply of oxygen to unite with the carbon in the coal or wood in order that heat may be emitted. The warmth of our bodies is maintained on the same principle, the union of oxygen with body tissues. Every move that animal makes means consumption of oxygen. And yet there are lots of stables in this country where the oxygen must get in through the cracks or occasionally when the door is open if it gets in at all.

VENTILATION VS. LARGE STABLES

I do not know just how many cubic feet of air a cow uses in a day. I have seen the figures somewhere, and they are simply enormous. We couldn't possibly build a stable big enough to supply the dairy herd with all of the air that they would use in a day. We must make provision for a constant change of air substituting the fresh air outside for the stale air of the stable. This should not be left to regulate itself. A ventilating system is so easy to install that there is no excuse for us not having one

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There are two systems of ventilation that I have seen in operation, and both are giving good service. The system that I prefer is the Rutherford. We added this system after our barn was built, as at the time of building we did not know as much about the necessity of ventilation as we learned later. About a foot from the floor at regular intervals we punched two holes 10 inches square. On the outside we placed a box, leaving a space of six inches between the bottom of the box and the stable wall. The top end was knocked out of the box and the air was thus enabled to get inside the box and then into the stable, but no direct draught was possible. To guard further against draughts a similar box was placed over the opening on the inside of the wall and the air could get into the stable

bottom outside and one through the shaft inside at the top. If the wall is of concrete or stone. it is well to make the doorways sufficiently wide that a shaft a foot square may be made between the casing of the door and the wall.

The point on which many are apt to fall down in arranging either of these ventilating systems is in depending on the feed chutes as an exit for foul air. I believe that the shafts that run to the roof of the barn should be used only as air exits and should be built most carefully, as the more carefully the shaft is built and the longer it is, the better will be the draught and the more efficient the ventilation system.

Can I Afford a Spreader? By F. W. Peck

The season for the most frequent use of the manure spreader is approaching. Many farmers are debating the advisability of purchasing. Many doubt its economy on farms of less than 200 acres. All are aware of the great advantage in extra evenness of scattering manure with the spreader. Most farmers realize that a given amount of manure will cover a larger acreage when spread in this manner. The advantage is especially great on meadows where coarse bunches of straw are a nuisance in the hay crop.

Farms management investigations on a number of farms in Minnesota indicate that the spreader will make a financial profit on any farm which distributes 250 tons or more a year. This takes no account of the added ease of labor to the farmer, but considers only the financial saving and the fact that man and horse labor are enough more effectively employed to more than pay interest, repair, and depreciation charges on the spreader. This amount of manure should be handled on farms of 160 acres or over, or on any farm which has 22 cows, 16 head of young stock, and eight horses or equivalent stock.

Fruit in Alberta

(5)

D. W. Warner, Edmonton, Alta.

Th question of whether or not it will ever be possible, from a profit-making point of view, to produce fruit in Alberta for our own use, has been much discussed. I do not believe that we will in the near future, at least, produce apples for export. If, however, we do not produce at least a part of the apples needed for home consumption in the next few years we will have only ourselves to blame. I have travelled pretty thoroughly through the settled portions of Alberta. and have seen thrifty looking trees in many places and trees bearing fruit in some sections

We, here in Alberta, will never be able to raise all varieties of fruits of the kinds that are now in use. With the continual changes going on, however, the old varieties going out of use and the new, hardier and better ones taking their place, I believe it possible for us to procure other kinds from the new varieties coming into use that will be better adapted to our climate and season. It is more practical to get the adaptable species of all kinds of fruit than to wait for changes in climate to make it possible to produce fruit of the tenderer sorts.

THE CHANGE IS COMING

We are all looking for those changes to take place in varieties that will enable us to produce our own fruit; especially those of us who have seen the settlement of other new countries. In looking back at the changes that have taken place in Nebraska, where I went, when a boy, with my parents in April, 1868, I see prominent among them is the improvement in fruit growing. This improvement has been brought about partially by the adaptation of the more suitable varieties and partially by a favorable change in the climate. It is my belief, however, that most has been done to encourage fruit growing by the propagation of the kinds of fruit suitable to the country and its needs. All fruit growing countries have had to do the same.

Another point that gives me faith in the fruit possibilities of our province is the numerous kinds of wild fruit found growing here. I cannot name all of them, but have seen and know enough of them to convince me of the possibility of growing enough for our own use, which we have been able to do. We have experimented with both cultivated and wild fruits in our garden and have succeeded satisfactorily with both classes; succeeded far beyond our expectations. A COMPARISON WITH NEBRASKA

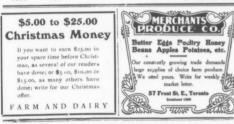
We have been more successful than my people were at first in Nebraska, which latter State has turned out to be a good fruit country. I can remember when most of the new settlers in Nebraska had the idea that they would never be able to do much in the way of fruit growing. They are now selling fruit for export in large quantities from that State. The early settlers

there had no more faith in successful fruit growing than the new settlers have in it here The same conditions have given me faith that ve can produce our own fruit here that gave my father (who was one of the pioneers in fruit growing there) faith that he could succeed in that country. In both cases our faith was founded on the belief that where so many kinds of wild fruit of good quality grew it was absolute proof that cultivated kinds would do equally well when the proper varieties were found and the proper care given.

Coming back to the native fruits, I have seen four kinds of currants-the ordinary black and the ordinary red, the little red (much like the cultivated, but smaller), and the skunk berries, which grow along the water courses and in the swamps near the water. This latter is a distinct variety of currant. There are three kinds of cranberries-high bush, low (Concluded on page 18)

1194 (6)

FARM AND DAIRY





Some farmers are like Gladstone. You will remember he got his exercise by chopping down trees.

Some farmers-a good many of them-are getting theirs like the man in the picture above.

Trundling one wheelbarrow-load after another for half a day from stable to yard is exercise all right. And what a "plug" it is to get a wellfilled wheelbarrow up the plank gangway on to the manure heap-especially in winter.



But have you time for this exercise?

Then why do it?

You wouldn't think of sowing or reaping in the oldfashioned way. Then don't make cleaning out stables the exception.



DILLON'S LITTER CARRIER lightens the labors of farmer s boy or hired man. It enables him to finish the stables in a fraction of the time before required.

A trim, well-kept barnyard, too, is the result of using a DILLON LITTER CARRIER. The bucket can be run out over the yard and dumped where desired.

lbs. runs A boy can work it. It can be fitted up without difficulty. The cost is the asily along the si net track. minimum for a first-class equipment. We have no Agents-you deal directly with the factory.

DILLON'S Litter Carrier

Figure it out for yourself. Get our free book.

Dillon's sell direct to the Farmer. There are no Agents and no Agents profits. The price is the same to all, and lower than you would expect for such substantial and well-built equipment. DILLON'S BOOK ON built equipment DilLON'S BOOK OF. CLEAN STABLES gives you an exact idea of what you can accomplish for a small outlay. Write for a free copy. 3

R. DILLON & SON ONT. OSHAWA.

Reserves and hour, The losses and seven miles an hour. The loss tained by individual growers th HORTICULTURE these delays, amounted to over 8 some **Ontario Fruit Growers Meet** The discussions and business transacted at the S2nd annual convention of the Ontario Fruit Growers Associ-tion all went to show that Ontario fruit growers are getting a larger vision of the scope of their industry. The time was when problems of pro-duction received first and practically all of the attention at the annual meeting. At the convention held in Toronto last week, however, prob-l ms of transportation, inspection and the enlargement of markets oc-cupied a good part of the time and provoked the most discussion among the growers. The increasing num-ber of small fruit growers' associacted at the 52nd annual convention of small fruit growers' associations throughout the province, gov-



Cases.

November 21, 1922

The Railway Co

age was most noticeable at non petitive points. A point of particular intere districts that do not specialize in fruit, is the contention of the mittee that fruit growers should be mittee that truit growers should be allowed to complete car loads in tran-sit as is permitted in all other lines of goods.

61.411

Who3Says Ontario Cannot Grow Apples!

The Jong and Control Cannot Control Links of Appendix Orcharding is one of the most profilable lines of agriculture in which the on-tario farmer can engage. Apples of No. 2 which is a line of the second s

ernment bulletins and the ever widening influence of influence of the agricultural make discussion of production ems unnecessary and in their problems unnecessary big annual meetings the fruit grow-ers are now devoting themselves to the problems that are so big that they

In protocols in a new solution of the influ-ence of all Ontario growers. In his presidential address, D. Johnson, of Forest, Ont., reviewed the new interest that has been taken in orchard work and noted an increased area of young planting. fruit as the market calls for. In ap-ples, Spys, Snows, McIntosh Reds ples, Spys, Snows, McLintosh Reds and Kings are in great demand at prices ranging at \$3.50 to \$4 a bar-rel at shipping points, while Ben Davis, Baldwins and Greenings are almost a drug on the market, and moving slowly at \$2 25. Mr. Johnon does not fear over-production so son does not lear over-production so long as the growers produce those varieties that the public demands. Ontario fruit is being slowly but surely driven off the western market.

and this Mr. Johnson attributed to the superior packing of western com-petitors, and also to excessive freight rates. Another point emphasized was the absolute neccssity of cooperation in fruit marketing. "The crying need of the day is an educational cam-paign on how to market fruit," con-Another point emphasized was cluded Mr. Johnson. TRANSPORTATION PROBLEMS

"Transportation Problems" were discussed by G. E. McIntosh of For-est, a member of the joint committee of the Fruit Growers and Apple Shippers' Association, appointed to invespers Association, appointed to inves-tigate existing conditions and sug-gest ways of improvement. The speaker referred to the unsatisfactory rate of transit. One shipment of ap-ples to Calgary, which they had traced, did not average three miles an hour. Another to Regina, averaged six miles an hour, and the average of

It was charged that railway panies are not keeping pace with the development of the fruit industry. One railway company, for instance, has 10 refrigerator cars less than it had four years ago, while the ton-nage of fruit carried has increased 50 per cent. In order to make it easier for growers to secure claims for dam-age to fruit in transit, the commitage to fruit in transit, the commi-tee suggested that the powers of the Railway Board should be extended in order that they may settle all claims (Continued on page 12)



SUNDERLS OF DOMINION LAND SUNDERLS OF DOMINION LAND The prevention of the second of the second term of the second of the second of the second term of the second of the second of the second term of the second of the second of the second term of the second of the

stead or pre-emption six months in each of six years from date of homestead entry (including the time required is earn homestead patent) and cultivate fifty acres extra.

err homestead patenti and cultive fifty acree atra. A homesteader who has erhansted hi homestead right and cannot obtain a pr-emption may enter for a pirchased inte-acre. Duties.-Must redde six monits is each of three years, cultivate fifty acts and erect a hone worth \$200.00. W. W. OORT. Deputy of the Minister of the Interier R B - Chanthoffed upblication of the attertioned will not be paid for.

November

ONTARIO HO

over 4.000 Bo Coop

U^{P-TO-DA} disadyan unfavorable s great les who attended The past sea and vere somewhy of app play would not be Leading Onta ver have to the newest m igement and Sere not on practically fr number of be estimated at 4 date exhibits Il the 1912

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by itself. The greatly tion afforded ailding, at Exhibition gr up. The Coo Associations, Associations, ives and ind their part to as attractive exhibits, with formerly, wer ranged and ad BETTER T

Honey as c ars was an was at the M ast winter a six state rom the whol touch the Ont: S. D. House, to the Fair. ver the Unit ued, "but I h xhibit as you The honey

two domes. building and side. The la exhibit of th Association, h display of con brick honey. lesex County ion lost not

The coming ox as a packa even more in han at the I barrels were asses and a ion with othe ment in the puble. The g tions was also At least threerere staged l ions or by n and practically went their way

NORFOLK Norfolk cou rally covered A little over o les on exhib-ounty. When ublic it was fo ad secured 50 0 third prizes mings were 100 boxes o firsts and 20 boxes, and sweepstakes b veted prizes ning box was o



ONTARIO HORTICULTURAL EXHIBITION ESTABLISHES A NEW RECORD

over 4,000 Boxes of Apples on Exhibition---Three Entries of 300 Boxes Each--Cooperative Societies Largely Responsible for Both Quantity and Quality of the Exhibits

U^{P.TO-DATE}, progressive orchard management will overcome the disadvantages that go with an antavable season. Such was one of the great lessons learned by those is attended the Ontario Horitcultur-bia attended the Ontario Horitcultur-Exhibition in Toronto last week The past season has been unusual-ly wet and dull, and fruit growers were somewhat fearful that the disof apples at this exhibition play would not be up to the mark in color and in freedom from fungus diseases. Leading Ontario fruit growers, how-ever, have taken full advantage of the newest metiods of orchard manthe newset methods of orenard man-gement and the apples on exhibition bere not only of good color, but practically free from fungus. The number of boxes on exhibition was estimated at 4,000 and the number of plate exhibits at 1,400. Taken all in all the 1912 exhibition is in a class by itself.

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The greatly increased accommoda-tion afforded by the Horticultural building, at the Canadian National building, at the Canadian National Exhibition grounds was fully taken up. The Cooperative Fruit Grovers' Jasociations, the district representa-tives and individual grovers, all did their part to make the apple exhibits a attractive as possible. The flower as attractive as possible. The nower exhibits, with much more room than formerly, were more attractively ar-ranged and added much to the beauty of the Horticultural Hall.

BETTER THAN IN THE U. S. Honey as compared with previous years was an outstanding exhibit. "I iq was at the Madison Square Gardens ast winter and there were exhibits form six states in the honey section, but the whole together would not touch the Ontario exhibits," said Mr. S. D. House, a United States visitor to the Fair. "I have travelled all over the United States," he contin-

The coming pre-eminence of the box as a package for fancy apples was even more in evidence at this fair than at the previous one. Only 58 barrels were entered in competitive classes and a dozen or so in connec-tion with other exhibits. An improveand in the pack was easily notice-able. The growing importance of Cooperative Fruit Growers' Associations was also evidenced at this fair. At least three-quarters of the exhibits were staged by cooperative associations or by members of associations and practically all of the prime money went their way.

NORFOLK COUNTY ON TOP Norfolk county fruit growers litrally covered themselves with glory. A little over one-third of all the ap-ples on exhibition ecme from their county. When the awards were made public it was found that Norfolk fruit had secured 50 firsts, 31 seconds and 10 third prizes. Among their notable winnings were first and second on lots of 100 boxes, and they also had the property of the second on the second on the two firsts and a second in classes for 20 boxes, and they also had the sweepstakes box, one of the most coveted prizes at the fair. The win-

ning box was of Spies grown by R. H

play this year was the half carloads of 300 boxes each. The first prize of \$200 was won by the Northumberland \$200 was won by the Northumherland and Durham Apple Growers' Associa-tion on an exhibit of Spies. The second price of \$150 also went to Northumberland and Durham on their Baldwins. Norfolk fruit grow-ers, who also had an entry of Bald-wins, had to be content with third place. The Norfolk apples were prob-Bably auperior from the studencies to. ably superior from the standpoint of color and quality but not so well graded and packed as those of their competitors.

SOME OF THOSE WHO WON. Prominent among the winners, the barrel classes were: P. Walker, J. Howe, Fred Doan and John Win-ter, all of Norfelk. In the single box classes some of the best wards went to R. B. Scripture, Brighton, North-umberland and Durham Apple Gross-ress' Association; T. Cunningham, Prominent among the winners in barrel classes were: P. Walker, ers' Association ; T. Cunningham, Norfolk ; G. H. Martin and Son, Port Association; John Watson, Ontarie Co., and F. G. Stewart, of Homer Ontario Other exhibitors too numerous to mention secured high places in the mention secured high picces in the box classes. In the plate classes awards were distributed over the entire fruit growing area of Ontario, but here also Norfolk county was most prominent.

County exhibits were a strong feature of the fair. Lambton county reature of the fair. Lambton county had a most striking exhibit of 352 boxes, the different colored apples being arranged to make a map of the county. This splendid exhibit, the finest at the fair, was robbed of much of its effectiveness by a large dome of hunge exhibit diwed in facest at it. The Varied Sitter, "I have not as used as used of the set of the



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permanently, and you ime time. Does not a the hair. E2.00 per Book 4 E free. JR., liniment for Varicose Veins, Rup-Ligaments, Enlargeu delivered. mankind, tured Mr Varicose Veins, Repu Ligaments, Enlargeu Wens, Cysts, Allays lee \$1.00 and \$2.90 a bot-Will tell you more druggists or delivered. Will tell you a write, Manufactured only by write, Manufactured only by Wolling, P.D.F., 123 Lymans Bidg., Montreal, Ca.

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able "CHANFORD" EVA-The a Subley boller, nod the action the market. The "Change of the state of any "Change of the state of the of the

The Grimm Mfg. Co. Ltd. 58 Wollington St., Montreal

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Railway.

General Change of Time October 27th, 1912



FARM AND DAIRY

The Feeders' Corner of our subscribers. Any Intervente are invited to and questions, or send items of interest. All ques-tions will receive prompt attantion.

What are "Ajax Flakes"?

I see cocasional mention made of "Ajax Finkes." What are they? Where may they be obtained? What is their chemical composition, and how do they compare in value with bran, gluten meal, etc. P-W. E. McK., Glengarry Oc., Ont

Ajax flakes are a by-product of breakfast food manufacture. So far breakfast food manufacture. So far as we know they are not on sale in Canada. Ajax flakes are used as the basis of the concentrated meal ration by leading breeders of dairy cathle in the United States. We understand that several breeder Ajax flakes, but willing firms will observe in this country place on the observe in this country place on the

Ajax flakes, but without success. We anticipate that milling firms will shortly in this country place on the market a feeding stuff comparable to be high in per cent. of protein, palat-able, and, like oats, they have enough rough fibre to make them easily di-gestible and safe to feed, there being no danger with them of immartian no danger with them of impaction.

Feeding Without a Silo

I am milking 22 cows, all registered Ayr-shires, except four. As I have no silo, what would you advise feeding this winwhat would you advise feeding this win-ter? I am yunning a winter dair. Butter is selling at 30 ets. a pound, and is still on the increase. Am going to build a silo next summer. Would you advise me as to the best kind and sits to build for about 24 milking cows?-W. W. S. Shefford Co. Que.

It is difficult to give a suitable ra-tion to be fed in this case as we do not know whether or not W. W. S. has not know whether or not W. W. S. has clever hay or timothy, nor do we know the prices that rule for the va-rious feeding stuffs in his neighbor-hood. A good general ration can be made of one-third gutten meal. To bran and one-third gutten meal. To this might be added a small propor-tion of oil meal. Oil meal would be especially valuable where no silage is available in that it would keep the bowels in good condition and the animal in a thrifty condition generally mal in a thrity contained and a solution of the solution of th valuable addition to the ration. Cot-tonseed meal, if it can be obtained, might be substituted in part for the gluten

It may be laid down as a general rule that feeds high in protein con-tent, such as cottonseed meal, gluten meal or oilcake, are cheaper in pro-portion to the feed value that they contain than are the feeds of lower protein content, such as bran and oats. The amount to be fed shculd be gauged by the amount of milk that the cows are giving. Where clover the cows are giving. Where clover hay is available one pound of meal to four pounds of milk would be about right. If timothy hay is fed one pound of meal should be given for every three or three and one-half pounds of milk.

For a steek of 24 milking cows and young cattle a silo would be needed with a capacity of at least 100 tons. A circular silo of 15 feet in diameter and 30 feet high would contain this amount. As silage settles consider-ably after the first filling, it would be necessary to have it a few feet higher to make room for the settling. Eith. er cement, cement block or a stave silo would prove satisfactory.

Never keep swill pails in the dairy, but hang out in the sun. They should be of tin or galvanized iron. and should be washed clean at least once a week; every day if possible.

for Cas't Cat Out & PRO SPATIN, PUTA Sectores concentrations of How Moosejaw is Supplied with Through Pullman Sleeping Car Milk

J. A. Caulder, Mor., Sask Creamery Co., Moose Jaw, Sask.

When we started in the dairy busi-ness in Moose Jaw only two years ago, the need was great for a first-class milk supply. Many farfirst-class milk supply. Many rar-mers were bringing small quantities of milk to town and retailing i: them-

of milk to town and retailing it them-selves. No one was using the bothle delivery system. Conditions were very unsatisfactory to both the far-mer and the consumer in the city. A few of the business men of the city, including implement dealers, lawyers, merchants, real estate deal-ers, and soft for the citock company. A farm of 400 acres two and a half miles from the city limits was pur-chased. This farm has an inexhaustchased. This farm has an inexhaustible supply of pure fresh water.

DIFFICULTIES AT FIRST

We started with a herd of 50 cows we started with a herd of bo cows, and have now got up to 140. At first we found it difficult to make the farm pay on account of the high expense that was necessary in order to pro-vide feed the first year or until we could grow it on our own farm. Last year, however, we had a splendid crop and we have been able to make our farm pay a good dividend on the money invested; even valuing the and at \$200 an acre and cows costing s \$100 each. We buy nothing but land at \$200 ach. We buy us \$100 each. We buy grade Holsteins high grade Holsteins and have bought practically all of them from the Brockville district of Ontario. We keep a few pure breds, but have not gone into the pure bred business very extensively as yet.

Our buildings are equipped in as modern a manner as is possible to make them, having electric light and electric power and an automatic water supply with individual drinking supply with individual dramas, bowls. We chop our own feed and we also cut all our straw, and find that we can save a great deal of feed by so doing. Our rations so far consist or dorren flax straw mixed with sheaf oats, cut green has staw mixed with sheaf oats, cut green. For our chop feed we use ground corn meal, ot chop, bran, and cotton seed meal. We have made our entire herd near. We have made our entire herd produce an average of 29 pounds of milk a cow a day. We have been striving for the 30 pound mark, but as yet have not reached it.

IMPROVE SURROUNDING HERDS

Up to the present we have been sell-Up to the present we have been sell-ing all our calves when they were three or four days old at \$10 each. In this way we are able to supply the farmers with first-class calves that will in a short time work into good dairy herds. We buy all of the milk that is produced in the surrounding country, with the exception of that of two or three farmers. We drive 10 delivery wagons in the city and sup-ply almost every household with milk and cream. and cream.

and cream. We also have a butter factory and buy all of the sour cream we can get within a radius of 200 miles. On 8th Anril we opened a branch at Wey-burn, Sask., which should prove very beneficial to the farmers of southern Saskatchewan. We also have an ice-source accurate equipmed with the most Saskatchewan. We also have an ice-cream plant equipped with the most up-to-date machinery that can be bought, and we are supplying the city of Moose Jaw and nearly all of the surrounding towns with sweet cream and ice-cream.

PROVINCIAL ASPIRATIONS

In order to allow us to branch out In order to allow us to branch out to other towns, we have only recently changed our name from "The Mosse Jaw Dairy Company, Limited," to "The Saskatchewan Creamery Com-pany, Limited," and changed our capitalization from \$100,000 to \$800,-capitalization forced to do this from 000. We were forced to do this from the fact that our original capital of \$100,000 was fully sold, and we found that we still required more funds to carry on our business.

November 21, 1012.

to Ottawa via Grand Trunk Railway

The Grand Trunk Railway operate a through Pullman Sleeping Car (electric lighted) to Ottawa, leaving Toronto 10.45 p.m., daily. Berth reservations and full particu-

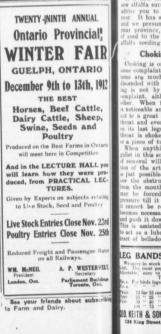
lars may be secured from the mearest Grand Trunk agent.

SPECIAL TRAIN TO PORTLAND, MAINE, FOR SAILING S. S. "TEUTONIC," DEC. 14th, For the accommodation of passen-

gers sailing on the White Star-Domin-ion Line Steamship "Teutonic," from Portland, Maine, December 14th, the Grand Trunk Railway will run a spec-Grand Trunk Kaliway will run a spec-ial train consisting of Vestbuled Coaches, Tourist and First-Class Standard Pullman Sleeping Cars, leav-ing Toronto, at 1.15 p.m., Friday, December 13th, running direct to the Dock at Portland, arriving there a pock at Portland, arriving there ap 9.00 a.m., December 14th. Berth re-servations, tickets, and full particu-lars can be obtained from the nearest Grand Trunk agent, or write A. E. Duff, D.P.A., Union Station, Toron-to, Ontario. -



Post Office Department, Mail Service Branch, Ottawa, 25th October, 1912.



November

FARM ! Alfalfa w

Could I seed a the fall an E.S., B.C. Alfalfa seed wheat has he practice with ers. The al same time as t start and form tect it through

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November 21, 1912.

FARM AND DAIRY

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FARM MANAGEMENT is the contraction. But the latter is a reagent that dairymen should leave to the veterinary surgeen. Some-times the administration of these things causes the obstruction to slip

Alfalfa with Winter Wheat Guid I seed alfalfa with winter wheat has been a most successful practice with naw of our best farm ers. The alfalfa, if seeded at the same time as the wheat, makes a good datar and forms a sufficient top to pro-sping it starts off so vigorously that



A, Very Up-to-date Feature of a New Zealand Plowing Match

A very op-to-ante reature or a New Zealand Plowing Match in the majority of fall plowing matches here in Ganada the atgle furr and house is in friendom. In this we are scarcely as progressive as our New Z perman illustrated is doing the work? If a common one in that country. T isolutrow plow competition might well be added to the attractions at Canadi powing matches. Zea

and make too great a weight in the base of the wheat sheaves. It is now too late in the season to ow alfalfa successfully, but we would advise you to try this plan another year. It has worked well in Ontario, and we presume would work well in our province too. Twenty resurces your province, too. Twenty pounds of seed to the acre is a standard for alfalfa seeding.

Choking in Cattle

Choking is one of the most trouble-ome complaints. Although the sympsome complaints. Although the symp-toms are much the same as getting disended with gas or "heven," chok-ing is not by any means the same complaint, although one causes the edse. When frothing at the mouth a noticeable and the animal is blown it to a great size, and has a swelled aroat and every appearance of being a its last legs, the chances are the broat is choked with a small potato a piece of turnip.

of a piece of turnp. When anything gets stuck in the gallet in this sort of way the difficulty of removal will depend on the situa-tion of the article in the throat. It is just possible that by gagging the w the obstruction may be reached om the mouth by the fingers, or it nay be forced upwards by outside ressure till it is reached; but when cannot be reached in this way it becomes necessary to use the probang, and push it down the animal's throat. This is assisted by giving linseed oil to act as a lubricant, and a little exact of belladonna to relax the mus-

LEG BANDS FOR POULTRY We carry in stock all styles (ask for our Poult all. The most popular leg band is the "Lead djostable", easy to put on, made of aluminum Two sizes. 6.1. For birds legs less than a-in, in circumferenc ot at
 12 for 15 cents
 Numbered 1 to 12

 25 or 25 or 40 or 0
 1 or 50

 50 or 40 or 0
 1 or 50

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 1 or 10

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is may retard the growth of the wheat and make too great a weight in the base of the wheat sheaves. It becomes necessary to puncture the stomach and remove one important source of danger while the other relief is gone about.-New Zealand Dairyman.

Capacity of Silo

Capacity of Sile I have a sile if feet six incless in diam-ters are also if feet six incless in diam-ters are since the light incless and day, and in another three days filled and day and in another three days filled it to the top. We put in nine acress of well as ared Learnington occurs and two too side allint variety. If acress in all side and be many exits does at feed ary too and how many exits does at feed ary well and of the side will probably have settled four or five feet at the day are reas weight of 43 the side with an average weight of 43 the side with an average weight of the side of the side

There are now 30 feet of ensilage in the silo with an average weight of 43 lbs. to the cubic foot, we would es-timate the amount of ensilage at a little over 80 tons. If each cow is to be fed 50 lbs. of ensilage a day for 180 days, our subscriber has ensilage enough to feed 18 cows for that period.

When to Paint

There is a great difference of opinion as to the best season of the year for outside painting. The early fall months have the following points in their favor: 1. The atmosphere is usually dry

1. The atmosphere is usually dry and the surfaces are in proper condi-tion. Moisture causes bistering, peeling and cracking. 2. There are fewer insects flying about and sticking to the fresh paint. 3. Cold weather is better than hot weather for new paint. The new paint hardens alowly during the cold weather and by summer it is ready to stand all kinds of weather. Paint ap-ded and blistered by the sudden ad-vent of hot weather.



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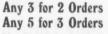
> 14k Gold Point Fountain Pen Price \$1.00 A Pen we guarantee (Only one pen may be included in any order)



The SPEEDY STITCHER A fine tool for every farm, factory or work shop. PRICE \$1.00.

A stitch saves many repair bills. It is easy to take when awl and waxed thread are always ready. For repairing bolts, harness, or shoes, or any heavy sewing it is just the thing. It sews a stitch like a sewing machine.

SEND ALL ORDERS TO FARM AND DAIRY, Peterboro



(9)

[Your Renewal and any one of these for \$1.30]



CANADA MONTHLY \$1.50 per year

The great Canadian story and descriptive magazine. It is to Canadians what McClure's, Cosmopolitan and Everybody's Magazine are to Americans. Many of the most famous novelists in the country contribute to Canada Monthly. De-lightfully entertaining and instruc-tive, it will be enjoyed in every

(Only one Canada monthly in any order)

Canadian Horticulturist

This fine monthly magazine tells all about orchards-about pruning, spray-ing, fertilizing, selling fruit.

POULTRY ADVOCATE

If you want to make most money from poultry take this magizine.

PRINTING OUTFIT

Complete set of rubber type, type holder, stamp pad, forceps. Just the thing for printing cards, tags or your address.

ALLIGATOR WRENCH

A great combination nut and pipe wrench, with thread cutters for rust broken or battered bolts. The handiest tool on the farm.

Don't be bother-ed with ink bottles and rusty pen points; a gold pen is always clean and bright and there is enough ink for a month's writing.

1198



Every day this Scale will show you new ways to add to your profits. C WILSON & SON SCALES

93 ESPLANADE

The book "HOW SCALES STOP THE LEAKS" is one we have prepared for Farmers-to whom it is of vital interest. A copy will be sent you on ap-plication. By its aid you will see where your profits can be increased.

Get your copy before the leaks drain away the profits from the season's work. Brop us a line to-day for it.

THIS BOOK FREE

TORONTO

November 21, 1012.

Ontario Horticultural Exhibition (Continued from page 7) (Continued from page school would be less were more fural schools equipped as was this model. Professor McCrcady himself was on hand to explain the exhibit

SOME THINGS FRUIT GROWERS BUY. some rHINGS FRUIT accupied one Commercial firms occupied one wing of the Hor.icultural building. Among the firms exhibiting were the Ningara Spray Co.; Brown Bros., the Auburn and Helderleigh Nurser, the Auburn and Helderleigh Nurser, the Harris Abbatoir, Willym ies; the Harris Albatoir, William Davies and German Potash Syndicate fertilizer concerns, Goold's, with their

It was feared when the exhibition was moved to the grounds of the Cana-dian National that attendance would one of the largest and best. Cauli- not be as great as it would connect the advantage of the Cam-flower, pot toes and cabbage, also had Exhibition held nearer the flower, pot toes and cabbage, also had Exhibition held nearer the centre of the most to make this exhibit a suc-cess were Brown Bros. W. Harris, gate receipts will be as large if ne F. F. Reeves, and J. Dandridge, of larger when the fair was held Humber Bay: C. Plunkett, Wood. at the Horticultural building has prof. S. B. McCready, who directs the advantage of size and in addition of the advantage of size and in addition.

PRIZE CONTEST NEWS

delivery for the farmers alone should be sufficient to get every farmer to

give it a trial for a year at least. One contestant writes: "An I go ing to work? Well, I should say am. \$350 is more than I save in year, and to get it by some work in the good a charge year, and to get it by some work i my spare time is too good a chan-to miss. It's a man's pay and I an geing to put in a man's work on it' There are many ladies who have de termined to get these misees. There are many lattice who have a termined to get these pianos. See are working in their own names, as some are helping their husbands (sons or brothers. There are a lot sons or brothers. There are a lot of boys who feel they must have the bicycles. Probably many of the on testants will order the fur coats a soon as they get enough subscriptions. They will still have time t win the grand prize before May 1st RENEWALS COUNT.

Subscribers who renew and ask the subscription be credited to a contest ant will add many points to the scores. As this may frequently hap scores. As this may frequently hap pen without the contestant known about it, no one need be surprised his count is larger than he though when the lists are announced. It is certainly be a welcome surprise if it nct? Don't be afraid to seed it nct? the names of friends who may be you and ask us to send them samp copies. CHRISTMAS OFFER.

Get your neighbors to send Fan and Dairy to their friends. One of the finest gifts any person can give a year's subscription to Farm a Dairy. Just think, fifty-two time year it carries remembrance of t An attractive Christs giver. card is sent by us to arrive on Chris mas morning, announcing the and giver, and also a copy of beautiful Christms Number.

Strapping the cows tight area the body in front of the hook bus and udder will make the cranis beast stand still when being miled

See your friends about subscribit to Farm and Deiry.

November



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specimens shown merits the conten-tion. Essex, Huron and Prince Edtion. Essex, Huron and Frince Ed-ward also had large and attractive displays of box apples that were a splendid advertisement of the adaptbility of their respective counties to fruit growing.

FINE PRODUCTS OF THE GARDEN

Vegetable growers d'd their best to hold the pace with fruit growers in improving their department of the exhibition. Formerly the vegetable exhibition. Formerly the vegotable exhibits have been somewhat crowdi-ed, but this year they had lots of tage. The onion display as usual was one of the largest and best. Cauli-flower, pot toes and cabbage, also had good classes. Some of these who did

Prof. S. B. McCready, who directs agricultural education in rural boundary schools, had an exhibit that country school. The small model of a school house was surrounded by grounds of ample proportions, laid out for games, garden plots for each student, and a plazground equipped with swings and ther derices that The Canadian National Exhibition.

Many new contestants have entered prize in the contest. The fact that uring the past week. The contest Farm and Dairy secured rural free during the past week. The contest has a long time to run and new conhas a long time to run and new con-testants have just the same chance as be sufficient to get every farmer those who entered earlier. The can-give it a trial for a year at least.

(11) 1199

Let Us Send You a Sacred Song FREE!



TAKE THEM TO THE PIANO OR ORGAN AND TRY THEM OVER



Simple, Sacred Solos, with Quartette, Chorus and Pleasing Piano Arrangements.

Simple. Sacred Solos. With Quarterse, chorus and reasons runs attangements. These songes are printed on splendid paper, regular sheet music size, and are just like the regular sheet music for which you pay 60c or more. The songes are all composed by a Canadian, Mr. Gordon V. Thompson, of Toronto. They are lovely. Tre the above over in you rown home. Some friends of Farm and Dairy who have tried these songes, and the members of our own staff yote them splendid. One of our friends who has had several years' ex-perience as a church choir soloist, said of these songs, after trying them over:

"They are splendid. I must have each one of the ten at once. They will be "Bn" of ther for my own personal pleasure and entertainment. For singling in persing atherings, or for solo work in connection with our church choir. Mr "posser of the compare, must, in addition to being an excellent writer and com-"posser of the compare, must, in addition to being an excellent writer and com-"cless he never ould have worked in such lovely tones in the airs and such beauti-"fail thoughts in the words." One of These Songs, Your Choice,

SENT POSTPAID TO EVERY READER OF FARM AND DAIRY

who will spend a few minutes of time filling in answers to our questions, asked on the n on this page.

The reason we ask you for this information is very simple. Our advertising de-partment is frequently asked for information regarding the class of readers subscrib-

partment is frequently asked for information regarding the class of readers subscrib-ing for Farm and Dairy. In order that we may have this information to lay before our advertising patrons, and also in order that we may better know just what will be most suitable to give you each week in Farm and Dairy, we ask for your cooperation in this matter. Fill out the coupon to-day and send it to us by first mail and you will believe us more than you will believe in the matter of enabling us to give you a more intelligent service through Farm and Dairy. Farm and Dairy.

Taining range of the second se

matter. In these days of high cost of living, the buying of supplies for the home is one of the most important things of our every day life. We devote our days to labor, to enable us to obtain money to buy the necessities of life. Unless we buy intelli-gently we waste part of our labor. Farm and Dairy is trying to help its readers to get the most and the best for their money. To that end we refuse the use of our advertising columns to those firms whose goods we feel will not give the utmost statisfaction to our readers. Our people are rapidly discovering that it pays them to read the advertising pages of Farm and Dairy since Farm and Dairy ads. are of great assistance in making economical and satisfactory purchases.

Everyone Gets a Song Free. There are no Chances to Take.

Send in the coupon by first mail, and your choice of song will be mailed to you ;romptly, absolutely free in return for your kindness in getting us the information asked for. It will make a splendid Xmas present for a musical friend should you not be musical.

There are no exceptions and no rules to comply with. All you are asked to do to get one of these beautiful, inspiring sacred songs, is to answer the questions as fairly as you can and send the coupon to Parm and Dairy.

Send the Coupon to-night. Answers must be received by December 2nd.



COUPON CLIP OUT, FILL IN AND MAIL TO-DAY Please answer all questions as soon as you can, . and mail to Farm and Dairy, Peterboro, Ont. 1.-How many persons on the average read your copy of Farm and Dairy? 2. - Do the women read Farm and Dairy? 3.-What becomes of your Farm and Dairy?..... 4 .- Do you read any other weekly or monthly publications, if so, which ones? 5.-What is the value of the property you occupy? 6 .- How many acres in your farm? 7.-Are you a dairy farmer? 8.-How many pure bred cattle have you? 9.-Do you own or rent your place? 10 .- About what is your annual income from all sources? 11 .- How many rooms are in your home? 12 .- Do you use steam, hot water, hot air or stoves to heat your home? 13 .- How do you light your home? 14 .- Do you cook with coal, gas, wood or oil ?.... 15-What make kitchen cabinet have you? 16.—Do you use a vacuum cleaner? 17 .- Have you free mail delivery? 18.-Do you raise chickens? 19 .- What make of incubator have you? 20 .- What make of washing machine do you use? . . 21.-Have you a cream separator? 22.-Have you a gasoline engine? 23.-What horse power is it?..... 24.-What brand of paints do you use? 25.-What brand of toilet and laundry soap do you use? 26 .- What make of piano have you? 27 .--- What make of organ have you? 28 .-... What make of talking machine have you? 29.—What make of razor do you use? 30 .- In buying, do you pay cash? 31.-How many live in your home? 32 .- Do you buy advertised articles? 33.---If so, why? 34 .- Do you buy flower or vegetable seeds? 35.-From whom do you buy these? 36.—Have you an apple orchard? 37 .- How many trees in it? 38.-What kind of roofing do you use? 39.-What baking powder do you use? 40.-Do you bake your own bread? 41.-What flour do you use? 42 .- What make of breakfast food do you use?.... 43.-Do you buy of Mail Order Houses? 44 .- Do the advertised articles you buy give satisfaction? 45.-What make of automobile have you? Name Post Office..... Prov.

(12)





(Continued from page 6)

(Continued from page 6) on companies for accounts of six months' standing. Valuable markets are being lost to the Ontario fruit men through exces-sive freight charges. The trade at "The Soo," for instance, will soon be monopolized by the United States un-monopolized by the United States unmonopolized by the United States un-less charges are made more equable. The rate on fruit from Lyons, N.Y. to "The Soo" was found to be 42 cents a cut, while from Western Ob-tario the rate is 60 cents. An investi-gation into freight rates on American of Ganadian lines, brought out the following: Rate from Minneapolis to Sault Ste. Marie 4400 miles, 30 cents Forest, Ont, to Sault Ste. Marie 335 miles 54 cents; Chicago to Sault Ste. Marie, 470 miles, 22 cents; Forest to

Success

To get to the top is a laud-ble ambition. We not only able ambition. We not only like to get there ourselves, but we like to hear and read of oth-ers who have gotten there. ers who have gotten there. There is nothing like a tale of success to inspire us to greater endeavors. One of the features of the

Xmas and Breeders' Number of Xmas and Breeders' Number of Farm and Dairy, coming out Dec. 5th, is a story of how one young man has made the old homestead to produce more bountifully under his efficient management than it ever did heave. management than it ever did before. The story is told by an editor of Farm and Dairy, who visited this young man's home and secured much of the story from his own lips. This is only one of the numerous good feat-ures ot our Special Xmas Num-ber of Farm and Dairy.

Sault Ste. Marie, 347 miles less, 26 cents. Rates east of Winnipeg are cents. Rates east of Winnipeg are but West they are altogether east but West they are altogether east bitant. A carload of apples can be sent from St. Catharines to Winni-peg, 1,254 miles, for \$127,20. To send the same carload 480 miles for send to Sakadoon would cost bit 20 addi-tional. Is it any we that Ontario growers are losing the western mar-ker.

Mr. McIntosh also dealt with the need of cargo inspectors to ensure reasonable handling of fruit at Mon-

treal. "Nursery Legislation", was a sub-et of an address by Dr. G. Gordon. Hewitt, who traced by Dr. G. Gordon. Hewitt, who traced Scale in Nova Scotia to a Scale in Nova Scotia to a Government has passed an inder requiring that all nursery stock. The dreat state of the scotia state of the companied by a certificate of inspec-tion and all coming from other parts of Canada must be fungisted at the port of entry. Dr. Hewitt believes that the result of this stringent lage. of canada must be rumigated at the port of entry. Dr. Hewitt believes that the result of this stringent leg-islation will be an improvement of conditions in Ontario nurseries.

conditions in Ontario nurseries. Addresses of a practical, educational nature were given by L. Ceasar of Guelph, who discussed common in-sect pests and told of his investiga-tion work in little peach and peach rolews; P. E. Angle, B.S.A., of Sim-roe, Ont., described his method of laying out and planting orchard land, "Nursery Stock, its Selection and Care " was the subject of an address laying out and planting orchard land. "Nursery Stock, its Selection and Care" was been considered and the selection of the best varieties of the various fruits were within A. G. Bland discussed "The Best's and the Para Creater in Oritario." Probably the most inter-esting and instructive of the practi-cal addresses were those of Prof. J: P. Stewart, of the State College of Penneylvania, who told of his investi-cation werk into fertilizers and dis-cussed cultural methods. Gains from

fertilization in Prof. Stewart's tests fertilization in Prof. Stewart's have run as high as 17 times amount of fruit produced on adjac check lots not fertilized, and h check lots not fertilized, and h been as high as \$420 an acre in a gle season. All of these addre-will be dealt with more fully in furissues of Farm and Dairy. The Thursday morning session

conducted in the Horticultural Build-ing at the Fair. Mr. P. J. Carey. Dominion Fruit Instructor, defin-Dominion Fruit Instructor, defined a No. I apple and by means of speci-mens told the growers how to select the different grades. Prof. J. W. Crow gave an address on "What Fruit shall the Ontario Shipper put into Boxes?" As the market is at pre-sent this success. shall the Ontario Shipper put into Boxes?" As the market is at pre-sent, this package is only adaptable to No. I fruit, and that of the hest varieties. If lower grades are boxed the reputation of the box as a con-tainer of first class apples suffers. He recommended Kings, Spys. Spitten-burgs, Snows and McIntosh for box packing.

packing. Officers for the various divisions were elected as follows: 1, R. B. Whyte, Ottawa; 6, H. G. Foster, Bur-lington; 8, Robert Thompson, St. Catharines; 13, W. J. Sanders, East Linton

The Charming Winter Resorts of California, Mexico, Florida, etc.

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California, Mexico, Florida, etc. Now is the time to take advantage of a trip to a milder climate and es-cape the cold winter months. Round trip tourist tickets are issued by the Mexico, Colorado, Statistica and Points and Trunk Railway to different Points and the choices of all the best raites. Fratures in connection with this route: only Double Track Line to Buffalo and Chicago; Fast Sa-vice; Modern Equipment; Unexcelled Dining Car Service; Paltalia Electric Lighted Pullmano Sleeping Cars; all elements of safety and confort particulars, or write A. E. Duff, D. P.A., Union Station, Toronto, On-tario.

tario CLEARING SALE - Bred-to-lay prize-win-ning Golden and Columbian Wyandottes, Barred and White Rock, Brown Leg-horns. Satisfaction guaranteed.-Thomas horns. Satisfactio Sims, West Lorne.

FOR SALE

3 DE LAVAL TURBINE SEPARATORS 5500 capacity. Also 2 second-hand Boilers, 12 and 15 horse power. All in good repair

FARM AND DAIRY, Box 388, Peterboro, Out.



FARMS FOR SALE

100

PARIMS FUCK SALL ERKY FULUT LANDS is Southern B ish Columbia on easy terms. Accesse formatin Kootenay Valley, in tracts fi two to one hundred acces, offered at the search of the search of the search of the search of the lands without for growing apples, per plums, cherries, apploids, month with intervent or taxes till 1915. The land oces not require irrigation Pulty and live stock raising com-puting and the stock raising com-puting and the stock raising com-ting the search of the search of the Pulty and live stock raising com-ting the search of the search on the plumsed. Town of the hundred se three miles from pehocie, boties. I warm climate: beautiful secure: pet

or write INTERNATIONAL SECURITIES CO. LTD. Fruit Lands Department. Royal Bank Bidg., 12 King East TORONTO, ONT.

LOT NO. 5 1.01 FED {CORNMEAL 8 PARTS D. TANKAGE 1 PART FED CORNMEAL ALONE Both lots weighed exactly the same at the start. Both fed in dry lot under same conditions. Time of test, sixty-two days. LOT NC. 2 GAINED 97 lbs. each LOT. NO. 1 GAINED 42 lbs, each Examine the above cut carefully. Compare not only the size

of the hogs but the bloom and condition as well. This experiment was carried out at a Government Experimental Station, and the figures are guaranteed by the Professor in charge. Write us for pamphlet giving full particulars of this experiment.

This is a fair example of the results which our hog food, Harab Digestive Tankage, is giving to successful hog raisers all over the country.

A Trial Will Make You a Regular User

· of This Guaranteed Protein Hog Food

We want to ship you a trial order. Write us for prices and full particulars





November 21, 1912.

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FARM AND DAIRY

(13)1201



K TO FARMER who has used Canada Cement asks that question, because his first trial answered it to his complete satisfaction. Yet it is only natural that a farmer who has never used concrete-perhaps yourselfshould require convincing reasons before deciding to use it himself.

If we knew where you lived, and knew your name and the names of your neighbors, we could tell you of many men in your own locality who would be glad to tell why they are using Canada Cement. Since that is impossible, this advertisement will try to give you an answer to your question.

"WHAT IS CONCRETE?" ONCRETE is an artificial stone. It is a mixture of cement, sand and stone, or of cement and gravel, with water. The proportions of the various materials vary according to the purpose for which the con-



THE mixing and placing of concrete is simple, and is easily learned No elaborate tools are needed.

crete is to be used. This mixture hardens into an artificial stone. This hardening process is rapid at first, and in a few days the mixture is as hard as rock. After that, time and weather, instead of making it crumble, actually makes it stronger.

Since stone, sand and gravel may be found on nearly every farm, the only cash outlay is that required for cement. Cement forms only a small part of finished concrete, and this expense is relatively small.

Concrete may be mixed and placed at any season of the year (in extremely cold weather certain precautions must be observed) by yourself and

the winter your cream st market d miles of you, for er, 30c per st express hipment (6, ur require-iately each t-ceard will (itable) and stem a fair TD.

woods, Ltd. SALE

outhern Brit-Acreage in n tracts from offered at \$50 o \$8 per acre conth without

without apples, pears.

scin. eals. irrigation ising can be indred people with three hotels, tele conveniences

SCOTOTY. IES CO., LTD. ment. King East



you to take advantage of dull seasons, when vou would atherwise be idle. The mixing and placing is sim-

your regu-

lar help

This allows

ONCRETE is the ideal material for barns and silos. Being fire, wind and weather proof, it protects the contents perfectly. ple, and full directions are contained in the book which we will send you free.

"WHAT CAN I USE CONCRETE FOR." ONCRETE can be used for all kinds of improvements. By having a small supply of cement on hand you will be able to turn many an otherwise idle afternoon to good account by putting a new step on the porch, or making a few fence posts, or repairing an old foundation wall. It is a mistake to suppose that you have to be ready for a new barn or silo to be interested in concrete. Besides, it is just as well to become familiar with the use of concrete for small jobs, for then you will be better able to handle big jobs later on.

First cost is last cost when you build of concrete. Concrete improvements never need to be repaired. They are there to stay, and every dollar put into them adds several dollars to the cash value of your farm, and in many cases improvements of this everlasting material are actually cheaper in FIRST COST than if they were built of wood. The cost of lumber is constantly increasing, and it will not be many years before its cost will be prohibitive.

Y 0U should use concrete, because by so doing you can make your farm more attractive, more convenient, more profitable and more valuable.



R mills are located all over Can-ada, so that no matter where live you can get Canada Cement out paying high prices caused by freight hauls.

"Why Should I Use Canada Cement?" W sucre the first cement company to investigate the farmer's needs and to point out to the farmers of Canada how they could save money by using concrete. We conducted an exhaustive investigation into the subject, learned the difficulties they were likely to encounter, and how to overcome them, and published a book, "What the Farmer Can Do With Concrete," containing all the information that the farmer could need. We have made a special effort to give the farm

CANADA CEMENT CO 551 Herald Building, Please send me, free, you the Parmer Can Do With Co particulars of the 1912 Cast	Montreal ar book: "What pucrete," and full
My name is	
Address	

ers of Canada not only the best cement that can be made, but also every possible assistance in the use of concrete. Our free Farmers' Information Bureau is at the service of every farmer in Canada. All questions oon-

cerning the use of concrete are answered at once, and the Bureau is al-ways glad to receive suggeetions from farm-ers who have discovered new uses for cement. Last Year we conducted a son Contest, in which farm



ers in every THIS sign hangs in front of Province par. There is a sign hangs in front of tioipated. A Let it guide you to the place second contest, where the best casent is sold. second contest, where the best cament is sold-in which three times as many prizes are offered.

has been announced for this year.

You can easily see why a company that is de-voting this much attention to the farmers' needs is in better position to give you-a farmer-satisfac-

tory service. Canada Oement will always give you satisfactory results. Every bag and barrel must undergo the most rigid inspection before leaving the factory.

YOU should use Cement because Its makers offer you not only the best cement made but also careful, conscientious, personal assistance in making use of it.

This book of 169 pages, handsomely bound and litustrated with photographs, was the first, and is the best work describing the farmers' uses for concrete ever pub-lished. See free offer on this content.

CONCRETE

0 FARMER CAN DO WITH

page. F you haven't received a copy of "What the Farmer Can Do With Concrete," write for it at once. It will be sent absolutely free, without obligating you in any way. Use a post card or clip out the coupon. We will also send particulars of the 1912 Cash Prize Contest. Address:





FARM AND DAIRY AND RURAL HOME

Published by the Rural Publishing Com-pany, Limited.

as A has

I. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Cana-dian Holatein Cattle Breeders' Association.

Charling Cattle Breeders' Association. J. SUBSCHIPTION PRICE. 1846 a yasc-treat Britain. 8130 a year. For all count-treas except Canada Netless of the se-peration of subscriptions are sent to all subscriptions who then continue to receive the paper and Netless of the se-peration of subscriptions are sent to all subscription. No subscription is soci-timucid for more than one year after data of expiration. A year's subscription free for a subscription of the sent sector of a REMITACES should be made by Past Office or Money Order, or Beginstered latter. Postace stamps nocepted for amounts less than along the normality and the babies.

OF ADDRESS. - When a ddress is ordered, both the addresses must be given. 4. CHANGE change old and

5. ADVERTISING RATES quoted on ap-plication. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT

The paid subscriptions to Farm and hairy exceed 14,378. The actual circula-tion of each issue, including dopies of the upper sent subscribers who are but slight-y in arrears, and sample copies, No subscrip-ions are accepted at less than the full paper ly in

15 in arrears, and sample. No subscriptions are accepted at less than the full subscription rates. Sworn detailed stements of the circu-lation of the paper, showing its distribu-tion by counties and provinces, will be mailed free on request.

OUR ADVERTISERS

OUR OPECTISERS OR ADVERTISERS We quarantee that every advertise in this issue is reliable. We are able to do this because the adverts carefully edited protect our readers we turn away all up-verpuious advertises. Games and because to protect our readers we turn away all up-verpuious advertises. Somethy with any edited of the source of the source of the protect of the source of the reads of the source of the transaction advertisers years and bairy." Rogues should not ply their trade at the reads of the source of the trade of the reads of the source of the trade of the reads of the source of the trade of the reads of the source of the trade of the reads of the source of the advertise, and pay the debts of houset badaroptic F AR MA ND D DALRY

FARM AND DAIRY PETERBORO, ONT.

THE CANADIAN NATIONAL

The directors of the Canadian National Exhibition have at last come to recognize that their fair is losing prestige as a live stock exhibition. The stock end of the fair has been losing ground for several years, and in the fair this year a marked falling off was noticed in every department of the live stock exhibit, except in one breed of horses. Had the directors always been as much concerned about the progress of the live stock end of their fair as they now seem to be, this falling off might not have occurred. The erection of a suitable judging arena and a more up-to-date cattle stable along with greater inducements in the prize list are factors that, by their immediate adoption, will serve to check this retrogression in the live stock exhibits and maintain the reputation of the Canadian National as one of the greatest annual live stock exhibitions on the continent.

a pure, fresh atmosphere. We will not add these years to the end of our

lives but right in the centre where

We farmers lay great stress on the

ventilation of our stables. How much

more important is the ventilation of

ADAPTATION TO ENVIRONMENT.

City folks sometimes seem inclined

to think that we farmers are slow,

that it takes a long time for a new

idea to percolate into our grey mat-

ter, and longer still for it to take

form in action. When the farmer

lived unto himself, had no other ac-

cess to the news of the day, than the

the exchange of local gossip, and had

no up-to-date agricultural papers to

inform him of all that was newest

and best in connection with his oc-

cupation, there may have been some

grounds for this view of the farmer.

But what was true at one time is not

himself to changing conditions quite

as readily as is his brother in the city.

In no way is this spirit of progres-

sive adaptation to environment more

evident than in the adoption of labor-

saving machinery. One of the new-

est machines on the market, the me-

chanical milker, is finding favor with

our dairy farmers to a truly remark-

able degree. We were recently con-

versing with an agent who handles

a milking machine advertised in Farm

and Dairy, and he informed us that

he had placed orders for sixty milker

outfits in Oxford county alone, that

their plant is being run beyond capac

ity, and that orders are stacking up.

This surely is splendid testimony to

the progressive spirit that character-

izes the present day dairy farmer.

And this spirit we must develop if we

would hold our occupation of dairy-

ing on an equal footing with all other

TRUE ECONOMY

Economy is a much lauded virtue;

and properly so. Sometimes, how-

ever, we get mixed in our ideas as to

what economy really is. There is that

kind of economy that tendeth to

poverty and explains, in large mea-

sure, why many men spend their

whole lifetime on a good farm and

We were recently conversing with

a young farmer who had these mixed

ideas of economy. He was young,

energetic, and ambitious to get along

in the world. He told us that he in-

tended to be just as thrifty and econ-

omical as he could. As we talked

further with our friend, we found that

his farm, though free of debt, was

very much understocked and the stock

that he had was of a very poor qual-

ity. His money crops were wheat,

barley, and oats, which were sold to

the grain dealer. We asked him how

long he expected his farm to hold out

under such a system of farming. He

replied that he realized that grain

end up just where they began.

occupations, urban and rural.

The farmer is adapting

they will do us the most good.

our hed chambers?

true now.

The stock end, however, is not the only end that has been neglected. Indifference that has been characteristic of the attitude of the management towards the live stock exhibits has also been characteristic of their attitude towards other agricultural exhibits. Dairymen have good cause to complain in regard to the management of their end of the Canadian National. The arrangements for dairy exhibits are anything but satisfactory. The cream separator exhibits, which should have a prominent place in the dairy building, are found under the The dairy building itgrand stand. self is not well planned to show to advantage the few exhibits that are there. To make matters worse a good part of the available space is sold each year to one of the city dairies

for an ice-cream booth. It is time that those directors on the board of the Canadian National Exhibition who are supposed to make the agricultural end their chief concern should wake up and impress on their colleagues on the board the absolute necessity of giving more attention to the agricultural features of the fair. Otherwise the fair is bound to iose in rural patronage and in its status as an agricultural exhibition.

A MATTER OF HEALTH

Anyone in his right mind would not deliberately go into a room, close the door and the windows, open a bottle, and proceed to distribute poisonous germs and gasses around the room, and then lie down and go to sleep in that foul atmosphere. But that is what many of us do every night in the winter when we sleep in bed chambers with the windows closed. This may seem to be a strong statement; but it is none too strong When we breathe we are taking out of the air the oxygen that is conducive to health and releasing from our bodies carbon dioxide, a suffocating gas, and minute portions of organic matter which float in the atmosphere and are in many cases extremely poisonous. When the room becomes "close," it is an indication that the oxygen of the atmosphere is partially exhausted, and that in its place we are breathing carbon dioxide and inhaling along with the carbon dioxide poisonous substances. This "close" condition of the atmosphere is characteristic of bed chambers where the windows have been tightly closed.

It may be objected that it costs more to keep a house warm when the bedroom windows are raised at night. So also do fresh eggs cost more than stale eggs and good butter more than that which is rancid; but we are willing to pay the higher price every time. The extra cost of heating the house where the windows are raised in the night will be more than returned to us in the better health that we will enjoy, in the greater enjoyment that we will derive from the

November 21, 1012

OUR GUARANTEE

WE GUARANTEE that even, a vertiser in this issue its reliancy, vertiser in this issue its reliancy, vertising columns of Farm a bairy are as carefully edited the reading columns, and beca, away all unseruptions advertise Should any advertiser herein d dishoneatly with any subscriber, toos, provided such transmission curs within one month from d this issue, that it is reported and that we find the facts to be rated. It is a condition of i contract that in writing to add har we find the facts to be rated. It is a condition of in the aven of the facts to be rated. It is a condition of it is a second subscrib who are sur Friends, through what not report to addust trif disputes between subscrib hous the verse of sur subscrib who are sur Friends, through what not attempt to adjust trif disputes between subscribers WE GUARANTEE that every ad

vertise, nor pay the debts of honest bankrupts.

able to strengthen' his live stock dehartment.

What our friend might profitably do would be to borrow money, take out a mortgage against his farm if necessary, and get a goodly number of good cattle on that farm of his. We venture to say that the money he has invested in his land is not returning him bank interest. He could borrow money readily for six per cent. Good dairy cows properly handled would return a good big profit for the cost of feed and the natural increase of the herd would be more than sufficient to meet the interest on the money invested. And his farm would be improving all the time. But borrowing money, according to this farmer's light, was not economical.

Not very far from this man lived another "economical" farmer. He too, told us that his farm was clear of debt and that as soon as he could save enough money he was going to put up a silo. We asked him how long he thought that would be and he replied that it might be three years vet before he could have the concrete silo he desired. Money invested in a silo will pay back both principle and interest in a comparatively few years. Did this farmer borrow the money necessary and build his silo the advantages that he would reap from feeding ensilage would have the sile paid for before he will get started at it, working on his present idea of economy

Economy is a virtue if we have the right definition of economy. We would say that the economical farmer is the one who is making the very best of his opportunities and has his money invested where it will bring the best returns.

Not Justifiable

Nearly 25 years ago a Canadian bought a property for \$400, which gave him the right to develop power for factory purposes. He has never developed one horse-power in all the intervening time, and now he want \$150,000, and even at that figure de clares that he will only give a lease as he will not sell outright at any figure.

He is clearly within his legal rights ment that we will derive from two prepied stats he realisted tax set. He is clearly within his legal (gams rest of the night, and in our increas-d efficiency for the work of the day. Many of us who hitherto have slept with closed windows can add 10 years to our lives by hereafter sleeping in to our lives by hereafter sleeping in

Noveml

FARMERS'

armers prosper gates t Farmer Clubs i Wodnesday Institute w more rece Clubs and t

Have yo ments of c running in Messrs, Al Brokers, o There is advertisem These a

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and Dairy r way else Farm and

FARMERS' INSTITUTES AND FARMERS' CLUBS HOLD JOINT CONVENTION

armers' Institutes in Ontario are prospering as of yore. This fact is faced squarely and frankly by legates to the joint convention of educational work. l armers' Institutes in Ontario are not prospering as of yore. This fact was faced squarely and frankly by delegates to the joint convention of the Farmers' Institutes and the Farm-ers' Clubs in Toronto on Tuesday and Wednesday of last week. Farmers' Wednesday of last week. Farmers' Institute workers, delegates from the more recently organized Farmers' Clubs and the district representatives,

AD. TALK LIV

Have you noticed the advertisements of cotton seed meal now running in Farm and Dairy for Messrs. ALLEN & SIRETT, Feed Brokers, of Toronto, Ont.?

There is something about these advertisements worth studying.

These ads. are not all that one could wish for in the way of effective typographical display. They could be improved with some art work

But they are strong in that they carry a very real message. They pulsate with the breath of real salesmanship.

They are built on a rock foundation of service. An air of sterling Honesty pervades them.

Notice if you will how they are designed to ATTRACT ATTEN-TION. The cut of the package. and again of the Brand, catch the eve. The headlines are well chosen; these lead you into the text and awaken your interest.

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If you have cattle to feed, or other stock, and know the value of Protein - that element which makes milk and builds fleshthen you are by these ads. IN-TERESTED, CONVINCED and soon STIRRED TO ACTION.

These ads. of Messrs. ALLEN & SIRETT would be better of more space. They are much too cramped. They contain too much copy for the space allowed; hence they are not as easily read as they might be.

But notwithstanding these handicaps these ads. are PULLING THE BUSINESS! After the very first insertion had gotten in but a part of its work Farm and Dairy's "Hired Man" on calling on these men in Toronto last week was greeted with: "Man, you have A GREAT PAPER!'

Enquiries to hand gave promise of much good business, -enough in fact to carry the ads, for many weeks on the profits accruing.

For these results, so rapid and so satisfactory, we must thank in a measure the commodity advertised. It can be used to advantage by Our People, the Dairy farmers. We must thank the real sales stuff in the text of the ads. Then due credit must be given THE GREAT CONFI-DENCE OUR READERS HAVE IN FARM AND DAIRY ADVER-TISEMENTS.

They know that an ad, in Farm and Dairy must be O. K. in every way else it would not be in Farm and Dairy .---

"A Paper Farmers Swear By"

In his review of Institute work, Sno In his review of institute work, Sup-erintendent Putnam made mention of the great work that has been done by the Farmers' Institute. Much of the improvement in the dairy herds of Ontario, in the condition of stables, in the space generated of stables, Ontario, in the condition of stables, in the crops grown, and in the intra-duction of such special crops as al-falla, he claimed, was due to the good work of the Farmers' Institute, But there is yet much work to be done. Mr. Putnam did not consider that animum in Ortanic is you on a done. Mr. Putnam did not consider that agriculture in Ontario is yet on a high plane. But the Farmers' Insi-tute, as at present constituted, can-not do the work that is to be done. At-tendance at the meetings and mem-bership have both fallen off. Local speakers do not assist as they once did. Finance account is the truth. Finances are not in a healthy tion. The lack of suitable farm did. Finances are not in a healthy condition. The lack of suitable farm help, and the migration of the young people to the cities, were given as es-planations of this lack of interest. The solution of the problem advocat-ed by Mr. Putnam was cooperation between the Farmers' (Lub and the Farmers' Institute. With this con-clusion the attending delegates conclusion the attending delegates concurred.

The scheme has already been tried out at several scheme has already been tried at several scheme has already been the scheme has already been tried at the scheme has already been tried at the scheme has already been tried out at several scheme has already been tried out at stance, the children had more grain the scheme has already been tried out at several scheme has already bee ed success. At Newmarket, for in-stance, the children had more grain and vegetables at their fair than were exhibited at the regular fair. WHAT CLUBS ARE FOR

WIAT CLUBE ARE FOR At the evening session on Tuesday, the Farmers' Club movement was un-der discussion and the benefit of these clubs was toid in a most telling manner by Mr. Frank Hart, the Dis-trict Representative of Waterloo coun-try who may be termed the 'Father ty, who may be termed the "Father of the Farmers' Club movement in Ontario." Briefly, its benefits, as of the Farmers' Club movement in Ontario." Briefly, its benefits, as courserated by Mr. Hart, are these: The Club is a local organization, man-aged by local men, and as it depends allogether on its own members for success, it develops the ability of its members to help themselves. In the otherways receives that, production has start of the Club movement leads to shirt of the Club movement leads to spirit of the Club movement leads to cooperation, and in Waterloo county farmers are already working together on their marketing problems. But the real value of the Farmers' Club movement in Mr. Hart's eyes, cannot be measured in dollars and cents. His be measured in dollars and cents. His most carrest wish is that the Clubs may be of value from a social stand-point. "I believe," said he, "that many boys and girls have been liter-ally starved into the towns. The barn raising, the logging bee, the quilting bee, and such old time en-tertainments have passed away. The Farmers' Club now offers a high type of social life is the community. A man's social life is to the community of social life to the community. becomes acquainted with 50 or more

becomes acquanted with 90 or more families of his own community." The natural sequel to the format-tion of local Clubs is a central or-ganization to deal with county pro-blems. This stage has already been reached in Waterloo county.

reached in Waterloo county. SUPPLY PAINERS WITH MEN Mr. H. C. Duff, of Grey county, told of the work that the Clubs in his county are doing to supply their mem-bers with hired help. During the past summer many old country immi-grants have been placed on Grey.

county farms, and the immigration department have expressed their ap-preciation of the assistance rendered. In this county, as in Waterloo, they have a central organization. The board of six members is made re-sponsible for the starting of new sponsible for the starting of new clubs in the territory of each respec-tive member. No effort is made to force the Club on the people. The farmers of a section must first ask for a Club. When formed in this way there is little danger of its fail-ure. Mr. Duff told of one prosperous Club of 125 members in one of the poorret sections of the constraint of poorest sections of the county. At the first meeting they had a good ad-dress and a dance. Mr. Duff did not advocate dancing for Farmers' Clubs, advocate dancing for Farmers' Clubs, but he pointed out that in this way the Club was catering to the de-mands of the people, giving them good information along with amuse-ment, and thus doing something to make those young people contented with their country homes. Another line of work that Grey county clubs lists at the good is to have the prize lists at any of the country of the the data prize will but ranged so that larger prizes will but ranged so that suited to the county.

MONEY RESULTS CREATE INTEREST.

"Cooperative Poultry Circles," was the subject of an address by J. H. Hare, B.S.A., who told of the work that they were doing in connection with the poultry marketing problem with the poultry "Too many farm in Ontario county. "Too many farm clubs,' said Mr. Hare, "are one-sided their operations. They are too clubs,' said Mr. Hare, ''are one-sided in their operations. They are too purely of an educational nature. If connected with some business inter-est and showing money results, mem-bers would be more active.'' Mr. Hare did not think that a better line of work could be taken up by clubs than in connection with poultry. He advised District Representatives who wished to take up this line of work, to start in a community where there wished to take up this line of work, to start in a community where there would be the least difficulty. He him-self first approached individual farm-ers on the subject; then a meeting was called and officers elected. Hare laid much stress on the importance of securing a good manager, "If you can't get such a manager," said he, "you had better give up at once." In Ontario Co. there are now once." In Ontario Co. there are now

Sahn net. you nou never give op-once." In Ontario Co. there are now seven organizations, varying in size from 30 to 196 members each, who last year sold eggs to the value of \$20,860. In summer, egg circle mem-bers received one to three cents a dozen more than prevailing prices, and in winter from four to 12 cents. Professor W. R. Graham emphasiz-ed the necessity of having all farm products not only of high quality, but of uniform quality. To secure this uniformity and the extra price that the superior article should get, cooperation in selling is essential, and Prof. Graham told the audience of the things that cooperation was dothe things that cooperation was do-ing for the farmers of Great Britain and Denmark as seen by himself when on a trip to Europe this sum-mer. The speaker stated it as his belief that no country in the world is as admirably adapted to poultry hus-bandry as is Canada, and that if the people in the older countries can make a profit out of poultry our re-turns should be much larger still. A fuller report of this address will be given in a later issue of Farm and Dairy. the things that cooperation was Dairy.

CLUB MEMBERS TESTIFY

CLUB MEMBERS TERTEY. Three practical farmers, Mr. Pur-due of Grey county, Mr. Wm. Man-son of Waterloo county, and Mr. F. A. Emberson of Muskoka, told of the success that the Farmers' Club movesuccess that the rathers but not bein respec-tive counties, and of the good work accomplished. Mr. Manson made particular reference to a telephone com-pany that has been organized and to a freight siding that they induced the C. P. R. to lay for them. The influ-(Concluded on page 17)



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NEWVERMIFUGE

NEWVERMITEUGE. The test and other voreas in horse for (Guaranteed by the Paramew Horse Ken-ady Co., under the Pure Food and Drugs and Co., under the Pure Food and Drugs body food in from 18 to 24 hours all plus worms and bota. The Pure Food and Co. Second Second prives to marker in food hefore the eighth month. Practical horse and an be-riven a Mewerenifuge has removed horm a dinge abore. As animal whose stomach is full of worms cannot get fat or beid being obstinate. Seed your or-der Colay. In Blusting Second Farmers' Horse Remdy Co. Dept. AA. 52 - 7th St. Milwaukee, Wisconsin.

CALVES RAISE THEM WITHOUT MILK Booklet Pres. Steele, Briggs Seed Co., I.td., Toronto, Ont.





SEALED TINDERS, addressed to the Postmaster General, will be received at Ottawa until Noon, on Friday, the 27th December, 192, for the conveyance of His Majesty's Mails on a proposed Contract for four years, six times per week, over Raral Mail Route No. 3 from Peterbori (Distarto), to commence at the Postmaster Ubering Beauric

Generals pleasure Printed notices, containing further in-formation as to conditions of proposed Contract, may be seen and blank forms of Tender may be obtained at the Post Offlee of Peterboro and at the Offleo of the Post Office Inspector at Kingston.

G. C. ANDERSON, Superintendent

Post Office Department. Mail Service Branch, Ottawa. 9th November, 1912.



Gains \$27 More For You In A Year-



Free Booklet Write for it. It shows tests of the Standard under various conditions, and gives the figures re-ferred to above proving the Standard's gain over others to be \$27.00 per year. Also get catalogue explaining construction of the Standard in detail. MANY cream separators do not skim closer than .10 per cent. In other words they than .10 per cent. In other words they lose 1 lb. or more of butter fat in every pounds of milk skimmed. Now, the 1,000 pounds of milk skimmed.

Standard

cream separator skims to .01. It loses but 1 lb, of butter fat in 10,000 pounds of milk skimmed. This difference in skimming may not look very large on paper. But at the end of the year it amounts to \$27 with a herd of 20 coss. Just think of it! Every year the "ANDARD will maks \$27 more for you than STANDARD will make \$27 more for you than will the ordinary tream separator. The amount of this gain is no superson. The amount of this gain is no superson, the correct set of which gere evention by one of Canada's leading theore evention by one of Canada's leading theore for the STANDARD than for other machines, but the STANDARD will soon make up the difference by its closer skimming. Its records at dairy schools and agricultural colleges show that it is indeed a remarkable separator— a separator that is affected very little by adverse conditions, and therefore especially suitable for Canadian requirements. Canadian requirements.

The Renfrew Machinery Co., Limited Head Office and Works, Renfrew, Ont. Sales Branches-Winnipeg, Man., Sus

VOUNG MEN WANTED to learn VETERINARY profession. Catalogue free. Grand Rapids Veterinary College. Dep. 16, Grand Rapida, Mich.

CREAM WANTED.

Cheese Makers and Dairymen to sell our specialties in high-grade Nursery Stock during the Pall and Whiter monthe. High est commission paid. Exclusive territory reserved. Big demand for fruit trees for spring planting. Start now at the right season. For particulars, write We furnish free cans and pay express charges Our cheques are issued every fileso days and are cauled at part of mile cover if you ably our cream to the best market? Write for fullor particulars. TORONTO CREAMERY CO., LIMITED. TORONTO. ONT. STONE & WELLINGTON

NOLASSIN



Creamery Department Butter makers are invited to send one questions on matters relating to butter making and a department. A Big Paying Investment

A good cream separator is one of the best paying investments on any farm where three or more cows are kept. If you have been skimming kent your milk from pans, cans or crocks, you will be surprised to find how much more, fine, smooth, rich cream you can get by using a hand separa-tor. In the cold winter months, while the milk yield is smaller, the butter fat is the more valuable and harder to separate from the skim milk than it is in the summer. For these reasons you really need a separator as much, if not more, in winter than in sum-mer, and between this time and next spring the extra cream you get will go a long way toward paying for the

est separator you can buy. Then think of having the fresh, then think of naving the flexing warm skim milk to feed the growing pigs, calves and chickens. When mix-ed with a handful of oil meal to take the place of the butter fat which has been removed, warm skim milk from been removed, warm skim milk from the separator makes an ideal winter feed. The women will appreciate the separator when the cold days come. The skimming can be done so much easier, and the separator washed in less than half the time it takes to gather the cream in the old way. An other creamery man likes separator cream.

The Way We Tend Today

The agitation for purer foods and more cleanly methods of living generally, has already reached the pro-ducer of milk for city delivery. To a less extent it has reached the cream-ery man. The next step is to carry the gospel of cleanliness, and, if nec-essary, restrictive legislation, right home to the producer. Discussing the tendency of the times in the dairy world, "Chicago Dairy Produce" speaks the following words of wisdom

"There is one thing that can be set down as an absolute certainty and that is that the time is not far distant when no poor or undergrade cream will be received at our creameries; and this state of affairs is just as sure to come as that the sun rises and sets

"It is contrary to all business and economic principles to produce an in-ferior food product of any kind. Think of the utter absurdity of a farmer raising a cow from a calf at an ex-pense of from \$20 to \$30, then milk that cow and care for the milk, be sides the expense of barns and milk and cream utensils, and produce a product of an inferior nature that will only sell at a price several cents below the market value it should have and this because some one some where through ignorance or neglect, failed to give the raw material the proper care and attention.

BIG FIELD FOR IMPROVEMENT

"It is hard to conceive of a more wasteful and unbusinesslike procedwasterin and unbusinessine proceed when we come to consider that dur-ing certain seasons of the year the majority of the butter coming to our markets is of this character. The facts are that the producers in this great country of ours have got to mend country of ours have got to mend their ways in many respects, and the self-knowledge of these facts is what is going to force them to produce nothing in the way of milk or cream excepting that which will furnish a fine finished product.

"Another great reason for this coming changed condition, and it may

November 21, 1012

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November 21, 191. Creamery Department demand for better sanitation in a demand for better sanitation in an the manufacturing of our food ducts, and especially butter; or, other words, the continually grow demand for more healthful produ There is to-day a sweeping den over all this country for a better ity of milk. It is not a demand richer milk or for any particular of milk excepting a pure, clean, sani-tary and consequently healthful milk. THE CONSUMER WILL WIN

"The demand is insistent and accept no compromise. The consumer stands on his rights in this matter stands on his rights in this matter and he, in the end, will win out. This is only the preliminary struggle and will extend to the butter product as secon as the fight for a perfect milk supply is won. Take, for instance, the changed

feeling on the part of the consuming public towards the common house fly. A few years ago, and a very few years, indeed, the fly, while regarded as a nuisance, was not thought of in the light of its dangerous nature; but to-day it has almost, and it some time will, become a crime to allow a fly in the milk, cream or butter at "These are the trend of events that lead us to say that the time is

A Friend We Appreciate

The people in this community as myself consider Farm as well and Dairy a valuable periodical and a liberal education for the money. I can assure you that I will exercise my best endeav-ors to extend Farm and Dairy amongst my patrons. - H. Gardner, Van Winkle, B.C.

not far distant when nothing but not far distant when motifing out a pure, wholesome and sanitary pro-duct in the shape of milk, cream or butter, will be brought to our cream-eries, or offered to the consumer; and a creamery that does not produce this may not be allowed to run

Salt and Moisture Retained by Butter

Prof. H. H. Dean, O. A. C., Guelph In order to ascertain the effects of having the butter in different sized granules at the time of adding the salt, and also to note the effects of different methods of working and draining on the percentage of mois-ture and salt retained by the finished butter, 17 experiments were made as the Guelph Dairy School in 1911.

GOVERNMENT ON RESULTS

1. The butter churned to the size of wheat and corn granules retained more moisture and less salt, as com-pared with similar butters churned to

the size of apples. 2. Salt applied in wet form, (two pounds of water to five pounds of salt) caused a higher percentage of both moisture and salt to be retained in the finished butter. 3. In the case of a churning of 297

lbs. butter, 100 lbs. of which was renoved from a large churn to a small-er one, salted at the rate of five per cent., and worked at once, the finished butter contained 13 per cent. mois-ture and 4.2 per cent. salt. A lot of 100 lbs. removed after draining for three quarters of an hour, then salteed three quarters of an-hour, then salted and worked, contained more moisture, and practically the same percentage of salt as in the previous lot. The remaining 97 lbs., after draining for one and a half hours in the larger churn, then salted and worked, con-tained practically the same percentage of moisture as did the first lot, but had nearly one per cent. less salt than d had nearly one per cent. less salt than did the two previous lots. These redid the two previous lots. are somewhat contradictory. Further tests are needed before draw-ing conclusions.—O. A. C. Report.

A. 11.02 B. 10.99 Averaging ity which m Flavor. (40) 36.10 1. The di

cheese per so great as lbs., while t Both the need of per cent, ac good averag ber of pour make one p 2. The per in lost in t greater from out the diffe However, the determining in in whey tory, and it i stress on th 3. As was

cheese made comparativel better in qu was not very difference w score of less 4. Both y slightly hig

Take a couple of handfuls of MOLAS-

the next feeding time—reducing the oats by the amount of MOLASSINE MEAL added —then watch him eat—note how he masticates each mouthful and with what evident enjoyment.

Every particle of nutriment is obtained from all its feed—that's why it will cost you less for feed and you get better work out of your horses, if you feed them regularly with Genuine MOLASSINE MEAL (Made in England).

Prevents colic and eradicates worms.

Get the genuine made in England. Ask your dealer, or write us direct for full information.

THE MOLASSINE CO., LTD., LONDON, ENGLAND Distributors for Canada-L. C. PRIME CO., LIMITED

St. John, N.B. 402 Board of Trade Bldg., Montreal. Pacific Bldg., To







oats-note how he slobbers-bolts a lot-and spills a lot-also a large pro-

Watch a horse when he is eating his

SINE MEAL and mix with the oats at

WANTED

The Fonthill Nurseries, Toronto

*************** **Cheese Department** Makers are invited to send contri-butions to this department, to ask questions on matters relating to beese making and to suggest sub-jocts for discussion. Address leiters to The Cheese Maker's Department.

Effects of Acids at Dipping

Prof. H. H. Dean, O.A.C., Guelph These experiments are a continua-tion of the work done last year, in which we found a greater yield of cheese by "dipping" the curds sweet-er; also less loss of fat in the whey, but the quality of the cheese did not seem to be affected very much by the

seem to be an every very much by the range of acid as used in the tests. During the season from April 18th to April 28rd, 1911, eleven experiments were made relating to this question, for which were used 13,884 ths. milk testing an average of 3,890 per cent. testing an average of 3.39 per cent. fat and 2.24 per cent. casein. One lot designated A, was dipped with an average of .17 per cent. acid. All other parts of the work in the two lots were as nearly alike as possible. lots were as nearly alike as possible. The milk was renneted with an aver-age of .177 per cent. acid ; curds were milled with .697 per cent. acid and saled with .976 per cent. acid and A lots. and .962 per cent. as the av-erage for the B lots. The average percentage of fat in the whey from the A lots was .15; from the B lots. 18. So far as we could tell by mak-ing tests of the whey there did not appear to be much difference in the losses of case in the whey, although the Hart Case in test is not very satis-factory for ascertaining losses of case-in in whey.

factory for ascertaining tosses or case-in in whey. The total weight of cheese, one month old, from the A lots dipped with the higher acid, was 669.88 lbs., while the B lots weighed 632.76 lbs., a difference on 6.942 lbs. milk of 2.9 lbs. more cheese in favor of dipping comparatively sweet. The percentage

of shrinkage in one month was 2.5 for the A lots and 2.2 for the B lots. The following table brings out some of the main points in the experiments

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897

per 1,000 lbs.

B. (Low ac	id at dip	ping) ping)	milk. 90.72 91.14
Lbs. milk to	Pero	entage of m	oisture in
make 1 lb.		Green	Cheese
cheese.	Ourd	cheese.	1 mo. old.
A. 11.02	48.16	35.01	34.83
B. 10.99	49.66	35.18	35.16
Averagi	ng the s	cores of t	he cheese

there was not that difference in quality which might have been expected.

4	Flavor. (40) 36.05 36.10	nees (15) 14.16 14.15	Color (15) 14.050 14.176	Texture. (20) 16.775 17.087	Tota] (100) 91.025 91.513	
		CONC	LUSION			

CONCLUMION 1. The difference in the yield of cheese per 1,000 lbs. milk was not og creat as last year, which was 733 bs., while this year it was but .42 bs. Both years' results emphasize the need of dipping with less than .2 per cent. acid, in order to have "a good average," or to reduce the num-per of pounds of milk required to make one pound of cheese. 2. The nercentages of fat and case-

The percentages of fat and casein lost in the whey were slightly greater from the higher acid lots, but the difference was not very great. However, the tests commonly used for determining the losses of fat and casein in whey are not altogether satis-tory, and it is well not to lay too much

tory, and it is well not to lay too much stress on this point.

 As was the case last year, the cheese made from the curds dipped comparatively "weet" were slightly better in quality, but the difference was not very marked. Both years the difference was represented by a total 4. Both years' results indicate a direlate hisher monistry content in

slightly higher moisture content in

FARM AND DAIRY

the curd and cheese from the lots dipped with less acid, indicating that the development of acid tends to expel moisture which corresponds with practical experience on this point, as it is generally conceded that high acid at dipping tends to produce "bony"

Farmers' Institute and Farmers' **Clubs Hold Joint Convention**

(Continued from page 15) ence that the Farmers' Club may wield was well illustrated by Mr. Purwhen he told of how their club of 61 members had secured a continuation school in Chatsworth thus enabling them to keep their children at home when they reached high school At present they are endeavor-

ing to secure a traction ditcher. Hon. J. S. Duff, Minister of Agri-culture, who attended one of the ses-sions, made particular mention of cer-tain attacks that had been made on farmers as being responsible for the high cost of living. Mr. Duff drew farmers as being responsible for the high cost of living. Mr. Duff drew the applause of the audience by re-marking that if farmers were getting rich so fast, it might be well for their critics to take up farming also and get their share of the "haul." The get their share of the "haul." The rest of the sessions was devoted to discussing Institute finances and ways and means of increasing the usefulness of the organization. MR. RANA ON COOPERATION On Wednesday there was a joint meeting of the various societies con-vened in Toronto, at which Hon, Mr. Hanna placed the question of cooper-ative marketing before the delegates

as concisely as anyone could desire. Lambton county, he said, produced 50,000 barrels of apples this year. Thirty-five thousand barrels went to market; 15,000 barrels went to waste. The first were marketed through co The first were marketed through co-operative associations. The second the growers attempted to market themselves. One small association did not sell a barrel of apples for less did not sell a barrel of apples for less than \$3. Apple growers, not in the associations, either failed to sell at all or accepted as low as 50 cents a barrel for their fruit. Such is the benefit that the fruit grower and the

farmer may reap by cooperative effort. Five dollars, ten, or even one hun-red are not here or there when it dred comes to retaining a good maker at a factory.--R. W. Ward, Dairy In-structor, Peterboro Co., Ont.



to the farmer who suggests the greatest number of practical uses for it on his farm-or any other farm.

T will pump water, saw wood, make electricity, grind feed, cut ensilage, shell corn, pull stumps, run a churn and separator and washing machine and operate a spray-pump.

What else will it do? The engine is offered as a prize for the most complete answer.

This contest is open to every farmer in Canada. You do not have to own an engine, or to buy anything from us, to enter it. There is no entry fee or other condition. All you have to do is to tell us what you could do with the engine if you had it on your farm. We're writing a book-"'Uses For a Farm Engine."

Its purpose is to show how our engines can be used to save labor and increase profits. We will do this by describing as many practicable uses as possible. We know already of many different uses for the engine, but we feel sure that you can tell us of others. So we're asking you to help us get information for the book.

We'll give this engine to the farmer who gives us the greatest number of practical suggestions.

Mr. C. B. Allardyce, Editor of "The Family Herald and Weekly Star," will act as judge and award the prize.

Now think what you would do with the engine if you Now think what you would do with the engine if you had it on your farm. Think of every possible way in which you could use it to do work that now takes the time of expensive hired help. Think how it could make your wife's work easier. Then sit down and write us.

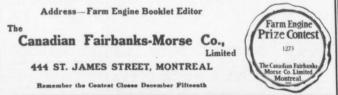
wife's work easier. Then sit down and write us. We have listed above, some of the uses we know about. You ought to be able to think of many others.

As soon as all replies to this advertisement are received, we'll go ahead with the book, and will send one of the first

copies to every farmer who enters the contest.

copies to every farmer who enters the contest. Your answer must be mailed not later than Dec. 15, when the contest closes. The engine will be shipped to the winner as soon as possible thereafter, so that he will have it in time to use all winter.

Do not bother about the form of your answer-we want ideas, and practical suggestions, not pretty writing. When your letter is written, cut out the numberel seal in the corner of this advertisement and pin it to your answer.





Dr. A. Backus, of Aylmer, Ont. Dr. A. Backus, of Aymer, Ont., then gave an excellent address in her own bright way on the physical de-velopment of the child, starting at the very commencement with the

the very commencement with the health of its parents, and of its par-ents' parents, and explaining its needs at different stages of growth.

After the necessity of being born right, came the necessity of being fed properly, that is, by nature's method, the need of exercise even for the young babe, who should be allowed freedom to kick and move about, and learn early the need of plenty of sum-shine, light and an abundance of rood, nue, fresh air. She wont on

good, pure, fresh air. She went on and pointed out the defects of the

and pointed out the detects of the majority of the present day schools, and the injury which they are doing to the growing child. The mothers were advised to educate their girls

being born

She went on

McCrimmon,

After the necessity of



THE fountain of beauty is the heart, and every generous thought illustrates the walls of your chamber .- Smiles. . . .

Women's Institute Convention, the Biggest, Brightest and Best Ever

To MARE brighter die verster, Such is the object of the homemaker. Such is the object of the Women's Institute of Ontario, as defined by Mrs. L. C. Burns, who presided at the eleventh annual convention held Toronto last week.

(18)

1206

The institute work, once mere cooking lessons and exchange of recipes, now makes "it its object to advance now makes it its object to advance the intervise of our country, and make our homes the best places on earth. The most profitable features of the work, said Mrs. Burns, are its mutual helpfunkes, its exchange of ideas, and the pleasant, social and ready and willing spirit to do neigh-borly service that it inculcates. Mrs. Torrington, of Toronto, gave the delegates a hearty welcome, creat-ing a homelike atmosphere. Mrs.

Mrs. Torrington, of Toronno, sear-ting all the delayats as a sincephere. Mrs. work for the institute to undertake work for the institute to undertake work of the institute to undertake ed, stopping the circulation of local councils where there is none. Such work the speaker thought, we woma ably suited to the undertake work the speaker thought, we woma ably suited to the und is now, the was in there for good, providing the has been trained how to use her influence, and trained how to use her influence. And trained how to use her influence, and trained how to use her influence. And trained how to use her influence.

and body. Miss M. V. Powell, of Whitby, MISS M. V. Fowell, of whitey, fr plied to the address of welcome, tak-ing as her keynote, the forward move-ment of the work of the institute. A tak At the outset the institute workers had ts as to its success, but not to-Woman's interest has been too long confined to the home, with its cramping effect. To-day woman's interests and scope are growing wider and naturally this is as it should be. Miss Powell thought that the women should take an interest in politics whether they wanted the franchise or not. Our lives are but a reflex of or not. Our nees are but a renew of the home atmosphere. It is, there-fore, necessary that our homes be ideal, for it is the responsibility of the homemakers of Ontario to mould the great minds and noble characters of the future.

THE SUPERINTENDENT'S REPORT

In his annual report, Superinten-dent George A. Putnam outlined the work of the institute and its branches and told of the progress that has been made. He said that if the boys and made. He said that if the boys and girls are to be kept in the country, their surroundings must be bright, interesting and helpful. More whole-some anusements, profitable enter-tainments, libraries, telephones, cheap power, good roads and up-to-date im provements all around, will accom-plish this. The farm must be modern if it is going to interest younger generation. He empha the He emphasized younger generation. The emphasized that the practical must be given first consideration if the women are to be successful; dietetics and hygiene are more valuable to a mother of a grow-ing family than musical accomplish-

were advised to educate their grifs in houshold science and in the proper care of children, so that grifs would not be allowed to enter the recatest of professions--motherhood--knowing nothing about the profession and how vitally important it is. McCrimpon O MAKE brighter the everyday ments. If we have the practical, it is life of the homemaker." Such bound to bring greater efficiency, is the object of the Women's which means greater prosperity along tute of Ontario, as defined by all lines. Mr. Putnam didn't know Chancellor A. L. McCrimmon, of McMaster University, traced the mental development of the child. Nothing, he said, can be added to the mind of a child but the mind must be trained. He showed how the deall lines. Mr. Putnam didn't know of any other organization in which there is more liberality, broad-mind-edness and charity than in the Women's institute, and advised the wo-men not to engage in local gossip, as

Evergreens Around the Home are Appreciated in "the Winter Months

Evergreens Aroung the rooms are Appreciated in the room-investment The brighter colored and more showy leaves of the broad-leaved trees may be more attractive than the pine and aprice while warm weather lasts. But with winter comes a new appreciation of the latter. They stary right with us through the months of cold and snow, affording protection from wintry blasts and giving to the farm home a comfortable, occup appearinces. Notice this effort in connection with the home of P. D Ede, Oxford Go., Ont., here illustrated.

it had a degrading effect. Speaking of the work done, he quoted the dem-onstration lecture courses on cooking, sewing and home nursing, and the information that has been spread re-garding labor-saving devices for the home. Travelling libraries and school gardens have been a great success, and the institute had proved an efand the institute had proved an ef-fective medium of publicity on such matters as tuberculosis, neglected and dependent children, health problems and social reform.

Others who took part in the morn-ing program were Mrs. Watts, the visiting delegate from Vancouver, and a number of representatives of different branches who reported on the work of their branch for the past year. These reports were very encouraging, and showed the wonderful progress which has been made in the work since the initiation of the institute. morning session closed with an ex-planation by Mr. Case of the Hydro-Electric Commission, of the use of electric household appliances.

electric household appliances. At the afternoon session, Miss A. Hotson, of Parkhill, gave a report of the Child Welfare Committee, and introduced the following resolution, which was carried: "That the Leg-islature be memorialized to provide institution of the control of the the municipalities of the Province be re-ouried to nay for the mantenance of numeripanties of the Province be re-quired to pay for the maintenance of thir wards up to the age of 21 years, if necessary, after which they shall become wards of the Government."

velopment of the mind of a child is a gradual process right from the cradle. One way in which the mind crafile. One way in which the minute can be developed perfectly is by get-ting the child to get clear and per-fect observations of ordinary facts in life. It is absolutely necessary to get the child to express his percep-tions of things, either in drawing, writing or orally. In doing this we are building the mental as well.

At the close of the afterncon session a number of the mothers present were invited to go up to the University to tea, after which there was an interesting and informal talk. Two or three suggestions were made along the line of providing suitable recreation for the country mothers. recreation for the country mothers, One Institute referred to has secured a cottage down at the lake shore, which will be furnished by the women jointly. A matron will be hired to lock after the cottage. This will enlock after the cottage. This will en-able three or four of the ladies to go able three or four of the ladies to go away together and enjoy their holi-days, and obtain a good rest from their househeld duties. A rest such as this is what more farm women need

MAKE 30,000 THE STANDARD

In the evening reports of the dis-trict and branch secretaries were presented, after which Mr. Putnam urge, wild ones that do well under cultive ed the members present to make as tion; currants, red, white, and blak; their aim for 1913 a membership of gooseberries, the Downing; and the 30,000. Mr. J. J. Kelao, of Toronto, Senator Dunlop strawberry. What spoke cm "Neglected and Dependent we can do on our farm others can do Children," his address taking the

November 21, 1912

A Reward of Merit

A pleasing incident in connection with the joint meeting of the various agricultural s cieties convened in Toronto la cieties convened in foronto la-week, was the presentation t G. A. Putnam, Superintenden of Farmers' and Women's In stitutes in Ontario, of a hand ome gold watch and fob nson Groh and Mr. foh Gro Anson Anson Gron and an Gross two Institute workers, made the presentation. Mr. Putnam has rendered 23 years of faithful service in the cause of agricul-tural education in Ontario, and well merits the appreciation an esteem in which he is held b his fellow Institute workers.

form of a series of pictures showing children "before and after" they were taken over by the Children's Aid Society.

Among those who shared in Filday's programme were the Misses Grey and Hughes, who went into detail, explaining fully the advantages to be derived from demonstration lec-ture courses and systematic study in ture courses and systematic study in home cooking, sewing, darning and mending, the care and use of the sewing machine and the cutting and fitting of garments. These speakers pointed out that it is wise to interest young girls in these lines of house young girls in these lines of house-work, not to give them something so simple that they will become disin-terested nor yet anything too difficult. The teacher, they said, will have to use tact and sound judgment whom teaching the young so as to know just what will hold their interest. Were girls taught seientific pocking in high school it thior remiles in the omes and healthier families in the next generation.

A very interesting talk was given by Mr. Alex. Mills, of Toronto, on 'Women and Business Methods.'' He stated that the average man would rather have a good dinner than that his wife should speak Greek. A woman should take a deep interest in her husband and his work. She her husband and his work. She should assume a joint partnership with him, and jointly they should de-cide when and how the money may be spent. The husband, as head of the house, should make a regular allowance to the wife. She should keep regular simple account of amounts received and when and how payments are made. The children should also be given a regular allow-ance to teach them economy and to discretion in the handling of money.

(Continued next week) . . .

Fruit in Alberta

(Concluded from page 5) bush, and swamp or vine berry. Three kinds of cherries—choke cherries, pin cherries, and the buffalo berry. There are also wild raspberries, Saskatoons, are also wild raspberries, Saskatoons, blueberries, gooseberries much the same as ordinary cultivated ones, strawberries, dewberries, huckleber ries, and a number of other wild fruits that grow along the mountains and foothils that I cannob medecine ultible that I cannob medecine

While I hope for only moderate success in apple growing at present, I can say from experience that we can grow many kinds of small fruits to perfection and with less annoyance from diseases and insects than are met with in many places that are considered very successful in that line. We are raising the Cuthler and Snyder raspberries, besides some

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thorn word; an the decei word and St. Matth It is su which req have a be who would wage a c warfare tivate out

should. things to preventing start they and then them. O sufficient an advant

Praying weeds of a of these mials. Th per, pride faith, love others, W not fight



The Upward Look

He also that receiveth seed among the thorns is he that heareth the word; and the care of the word, and the deceitfulness of riches choke the word and he becometh unfruitful. — 84. Matth. 13:92.

It is such a simple rule of nature which requires the woman who would have a beautiful garden, or the would have a beautiful garden, or the would wage a determined and unceasing wardrae against weeds, we accept the necessity for so doing as a matter of course. And yet how few of us cultivate our gardens or farms as we should. There seem to be so many things to do, just when we should be preventing the weeds from getting a start they obtain it in spite of us, and then how hard it is to overtake them. Only a few days' neglect is sufficient sometimes to give the weeds an advantage that our hardest efforts aftwards seem unable to overcomearts is they weeds. The new at these weeds

Praying is fighting weeds—the weeds of our bearts. There are many of these weeds. They are all perennials. There are the weeds of ill-temper, pride, selfshness, avarice, procrastination, lack of charity, lack of faith, love of pleasure, and numerous others. We all know them, but we do not fight them as we should. There is only one method by which the weeds in our hearts can be overcome. To endeavor to eradicate them by means of our own strength of will is to invite repeated defeat. Such a strucycle is as helpless as would be the effort to keep down the weeds of the farm whout the use of implements. They grow faster than we ments. They grow faster than our own. This aid may be obtained in only one way—by prave.

own. This aid may be obtained in only one way-by prayer. Every time we seek God earnestly in prayer and ask for power to know and do His will, His love shines into our hearts. It lights up the dark corners of our minds and reveals to us unworly thoughts and aspirations of which we have not been conscious. The second second second second second which we have not been conscious. The second second second second second which we have not been conscious. The second second second second second which we have not been conscious. The second second second second second has been sowing is ever beside us, has been sowing is every beside them to take not and sprine into life. Daily prayer is the means God has provided by means of which we can purify our minds of these weeds, and threby prevent them from springing up and making our lives unfruitfal.

But there is something more that we need to do. Just as we now realize that if we are to keep our land free from weeds we must seed to allow only pure and elevating thoughts to enter our minds. This is why we should

FARM AND DAIRY

read God's word regularly and earnestly. Thus will be absorb more and more of His spirit and be enabled to walk uprightly in His sight. Then will His words abide in us and we in Him, and all things will become possible unto us.--I, H. N.

* * *

Social Life on the Farm

The wife on the farm sometimes becomes nervous when it is announced there will be a guest from the city, thinking of the contrast between the farm home and the friend's city home, says a writer in Western Farm. It is the pleasant hostess who is true to her surroundings and is not found trying to imitate others who pleases visitors.

When city people visit the country home they want and need the country air, the welcome that has the true country ring, and not the affected city fashions and customs. Social enjoyments does not depend, as many think, upon artificial accessories.

MATTER OF DUTY

There is nothing better as a promoter of sociability in the country than the old-fashioned visiting, when it was considered proper to come early and bring your work. Women in the country should make it a matter of duty to continue social relations. A day set aside for entertaining their friends will serve to keep them young and ambitions. The true social life is, the wife, the husband, and the children. No matter how busy the farmer and his wife may be, taking time for such sociability will mentally stimulate them and physically rest them. We all know that a family becomes cross, narrow, and prejudiced when they continue to live year after year, meeting no one outside the family.

It is not necessary to set elaborate tables, and in making this effort many women exhaust their strength and are in no condition to meet their friends. This spoils the visit for the guest knows she has caused a disturbance.

SET AN EXAMPLE

Practical women should set the example of simplicity in this hospitality, for more satisfaction is derived from frequent gatherings than from a few elaborate affairs.

From request gatherings than from a few elaborate affairs. You may not be strong, and you may have to work hard and economize, but do not drop out of the lives of your friends. The farm wife who makes her home the centre of a pleasant, unpretentious social life, is indeed a benefactor to humanity.

. . .

Milk and butter should be kept entirely away from other articles of food. as they absorb odors and flavors so rapidly they soon become unfit for use.

.....

friends will serve to keep them young and ambitious. The true social life is should not take so much pleasure in found in inviting the entire family, [finding out those of others.



For Educational Purposes

By Alice Pringle (Continued from last week)

"Now, father," said she, "Uncle James gave me that money, not so much because he wanted me to spend it on myself, I think, as because he wanted me to decide how it should be wanted me to decide how it should be spent And I have decided that it shall be spent on the education of the whole family. This is about the way the items will read." and she wrote for a few minutes and handed the paper to her father.

And her father read : Family ca, riage and harness. . \$250.00 75.00 Encyclopedia 12.00 10.00 Daily papers 8.00 Magazines 5 00 Music lessens for Amy 20.00 Art square (carpet) "Why, child!" s 90.00 said he. "there's

nothing about education here—just a lot of luxuries and extravagances." cried

"Oh, father, don't say that" cried Connie. "I heard you and Uncle Nathan talking about the sermon their minister preached the Sunday you were there, and he said it was a liberal education to hear such a man preach week after week for a few years. I have heard pecple say." she years. I have neard peeple say," she continued with fine enthusiasm, "that the minister at Grantville is a fine preacher and a good man, and I know it will do us all good to hear him reacher and a good man, and I know will do us all good to hear him reach every Simdy. I can voted to send to reach y and the sendent of the sendent of the sendent of the reach every Simdy. I can voted to sendent of the sendent of the sendent of the sendent of the rate of the sendent of the sendent of the sendent of the sendent of the rate of the sendent of the sendent of the sendent of the sendent of the rate of the sendent of the sen preach every Sunday. I can remem-ber before the church was moved to Grantville, when we used to go often, that mother did not look so tired that mother did not look so tried and discouraged as she does now. And we are going to try it, father." Her eyes shone like stars and her cheeks were prettily flushed.

COLUMN TWO IS NOT

Clothes

eyes with the corner of her apron, and a sudden memory seemed to tug at the corners of his mcuth as Mr. Porter said: "That's so, Connie, we ought to go to church; there's educa-tion in it, and more, too."

on in it, and more, too." "But I don't knew," he continued, resently, "whether your Uncle presently.

presently, "whether your Uncle James' idea would allow us to buy an organ or not." "'I'm sure it would, father, for when I heard Cousin Josie play, and the others stand round her and sing, the others stand round her and sing. I could just feel the education and the uplift of it. And Amy will learn so easily. It will be just delightful." And so it was settled. "I really don't see what a lamp and "I really don't see the star is nodu.

"I really don't see what a lamp and an art square have to do with an edu-cation, though." said Mr. Porter. "Well, it is this way." explained Connie. "We always sit in the kitchen because the carpet in the liv-ing room is old and thin, and it takes too much time to sweep it often. But if we have an art square we can paint the floor round the sides of the room the noor round the sides of the room and it will be easily cleaned, and an art square will be easy to take up and shake, and we can come in whenever we want to and use the organ and books.

"Then a good lamp, it seems to me, has the effect of sunshine, and I've mas the errect of sumshine, and five heard you say a calf or a pig will die i if kept out of sumshine, and to de-velop the mind or heart of a person he must be kept in pleasant sur-roundings. I don't know that I have made it wave plain hout I would like

past our gate every day. You remem-when his little boy was taken sick last summer and he left him here for a few days. He has been so anxious to do something for us ever since, and I days asked him to-day if he could bring cur mail from town and put it in a box at the gate as he goes along. He seemed so glad to do it; so that is settled." joyously: "and you will get sottled," joyously: "and you will get your paper every day, father, the same as though you lived in the city." Finally it was settled that Connic should spend the money to suit herthe self

"But, remember, child, you are cut ting yourself out of an education, said Mr. Porter.

"I'll never grieve about that, fath-er' said Connie; "the benefit we'll all get will far outweigh the loss of book learning for one. Besides, I am not sure about lesing the education. had a talk with auntie, and she knows of people who would be willing to pay or people who would be whing to pay a good price for nice home-made pick-les and jellies, such as mother knows how to make-and I have a plan, but it will have to wait awhile. We must learn to use the material we have it hand

And they did learn, and life took on a new meaning and a brighter hue.

"If your Uncle James could look in on us," said Mr. Porter, one even-ing a few months later, as he laid dewn his paper to listen to a new song

COLUMN TWO IS NOT

from Grantville across the divide gces toria began the study of a new guage after she was seventy; so I thought I have done so little in the way of study all my life that I would like to try a little, if it is late in

like to ur, "You're just right, mother, it all do you good," said Mr. Poros, "Why, I do believe you look younger now, when I come to think of it. Oh, there's not a bit of doubt, Cenae, where a gent your uncle's now ey for educational purposes. . . .

Hints for November

The time for packing away the sum-mer clothing is at hand. Be sure that it is clean. If white clothes are packit is clean. If white clothes are part ed away when even slightly soli-they become yellow before spring.

They become yenow before spring. When packing the summer clothes lay aside all which are too much worn for further use. Give the small will or boy the scisso bands and cut are on boy its scisso bands and cut are on the pieces which might be used in case of sickness. Wrap the large pieces on one bundle and the small ones in another. Put the remaining bits in the ragbag. It is a great comfort to know where one may find nice, smooth, clean bits of cotton cloth when needed. Let the little helpers have the rag money, and they will take greater pleasure in helping. If possible do all necessary repar-ing the norther winter. There is usually as much time in the fall as in the spring. The good pieces which When packing the summer clothes

in the spring. The good pieces which may be cut out of worn-out knitted underwear make excellent cloths for cleaning, and are much handier and better than if the ragged garment is used whole or in part.

An application of camphor will remove white spots caused by heat on the varnish of furniture.

READ THIS UNCONDITIONAL FREE OFFER

And in case of the local division of the loc

Send us your name and address, and we will mail you absolutely free of cost, a package containing 72 patterns of the finest West of England and Yorkshire suitings and overcoatings that you ever saw.

With the patterns will come a booklet telling you all about the remarkably successful Catesby system of "made-tomeasure'' clothing.

Read it, and you'll understand why hundreds of shrewd, well-dressed Canadians buy their clothes direct from London, and save half of what they would otherwise have to pay their local tailor.

DON'T PUT THIS MATTER OFF-you'll soon be needing a suit or an overcoat . Send now, while the thought is in your mind. Remember, every price quoted in the booklet includes the payment of all carriage and duty charges by And that every suit and every overcoat is guaranteed to 115. give absolute satisfaction.

Your order will be shipped five days after we receive it

Address our nearest Canadian Office.



VIC LTD. 119 W. Wellington St., Toronto Dept. Coronation Building, Montreal "N" 160 Princess St. - Winnipeg

Or write direct to CATESBYS Ltd, Tottenham Court Road, London, England

HERE'S A GREAT TEST:

When you get your patterns, take one to your local tailor. Ask him what he will charge you to make a suit of such an import-ed cloth. Then compare his price with that asked by Catesby!

A The W sociation other go called "M Britain."

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Recipe uested. quested. ing, red on reque Farm a 2000004

Eggless butter, ter, c butte cup rants, five soda, one cloves and he found eggs are

Hot Cor tablespoon sugar and well, put one teasp baking po half cup a of eggs a makes 24

Graham half cups flour, on fourth cuj milk, one each of so ly choppe Steam thre and sugar

Chopped green tom tomatoes; peppers, eppers, pers; oneheads of c and let sta as dry as p spices and four pound of vinegar little less.

Orange goed taking of



The "BURLINGTON" **English Model**

This shows the most popular style of suit worn by well dressed men in England. Prices are as follows : \$16.50, \$18.50, \$21.50. Duty free and Carriage Paid Right to your Door.

Make the Man

-or at least give him a good start over his fellow-worker. Dress never meant so much in life

as it does now

All Successful Men are careful to be well dressed

And hundreds of these same successful men buy their clothes from Catesby in London-because

> They can buy better clothes direct from London for half of what the same quality goods would cost them in Canada.

The reason is that they buy on the successful Catesby "made-to-measure" plan.



A Message to Girls

The Women's Imperial Health As-sociation of Great Britain has among other good things, issued a leaflet called "Message to the Girls of Great Britain." These can well be thought over and dwelt upon by girls in this part of the Empire. They are as fol-

The future of our country is in your hands.

2. Look your best by all means, but be your Lest also; the first at-tracts to begin with, but the second

tracts to begin with, but the second produces the more lasting results. 3. You must obey the laws of hy-gicne, respecting fresh air, exercise, good food, cleanliness, and suitable clothing. A healthy girlhood is the best foundation for a happy life. 4. You must know about cooking.

and domestic economy

5. You must learn the feeding and caring for children; this knowledge does not come by instinct as many

Remember that home-making is the most dignified and important profession in the world. 7. Attend if you can "continuation

 Attend if you can "continuation classes" in personal and domestic hy-giene, including a knowledge of the fundamental facts of life. You can innocent withcut being ignorant

8. Practice housekeeping and dohygiene in your own home remember that a good daughter makes the best wife.

9. Choose the Lest companions and

10. Accept only the best companions and 10. Accept only the best men as your husbands, paying as much at-tention to their character as to their personal appearance.

*********************** THE COOK'S CORNER

Recipes for publication are re-quested. Inquiries regarding cook-ing, recipes, etc., gladly answered up-on request, to the Household Editor, Farm and Dairy, Peterboro, Ont.

Eggless Fruit Cake ; Take one cup butter, ter, one cup sugar, two cups buttermilk (not sour milk), one cup raisins, one cup cur-rants, five cups flour, two teaspoons soda, one teaspoon each cinnamon, cloves and nutmeg. This receipe will be found very good in winter, when eggs are scarce.

.

Hot Corn Meal Gems: Cream one Hot Corn Meal Gems: Cream one tablespon butter and one tablespon sugar and yolks of two eggs and mix well, put in the flour and corn meal, one tasapon salt and two tesapons baking powder. Add this to egg, mix half cup sweet milk. Fold in whites of eggs and bake 30 minutes. This makes 24 small enous makes 24 small gems.

. . .

Graham Pudding.—One and one-half cups graham or whole wheat flour, one-half cup molasses, one-fourth cup butter, one-half cup sour milk, one exgs, one even teaspoon each of soda and sall, one cup coarse-smean three hours. Service to taste. Smean three hours. Service to taste.

* * .

Chopped Pickle-Chop cne peck of green tomatoes; one-half peck of ripe tomatoes; one dozen each of large red tomatoes; one dozen each of large red peppers, green peppers, and cucum-bars; one-half dozen onices and four-heads of cabbage. Sprinkle with salt and let stand overnight. Squeeze out as dry as possible in the morning; add spices and celery seed to taste with four pounds of sugar and one gallon of vinegar. Boil one-half hour or a little less.

Orange Pudding. — Peel and cut we goed oranges into thin slices, taking out all seeds; put over

them a coffee cup of fine white sugar. Let a pint of milk get boiling hot, by setting in hot water; add the yolks of three eggs well beaten, one tablespoon of corn starch made smooth in a little cold milk; stir all the time, and as soon as thickened pour it over and as soon as thickened pour it over the fruit. Beat the whites to a stiff froth, add a tablespoon of sugar, and spread it over the top of frosting; set in oven a minute to harden. Can be eaten hot, but is best cold.

mustard seed, nine tablespoons mustard seed, nine tablespoons ground mustard, three tablespoons flour, three and a half cups white sugar, five cups vinegar, half table-spoon turmice. Chop fine, salt and simmer two hours slowly

Spiced Pears-Wash one-half peck

FARM AND DAIRY

froth wid neak the writes to a stiff spread, it is ablespoor of augar, and of seckel pars, prick with a fork and set in over the top of frosting; ook in boiling water, to cover, until set in over the top of frosting; ook in boiling water, to cover, until be eaten hot, but is lest cold. Strong jar and peur over the following Celery Sauce.—Two quarts celery, six large onions, four tablespoons i and one and one-half tubepoonfuls,

each, of whole cloves and stick cinnamen, troken in pieces. Brin boiling-point and let simmer Bring to three boiling-point and let simmer three minutes. Cover jar and let stand two days. Drain off syrup, bring to the boiling-point, let simmer three minutes and pour over fruit; repeat. In the jar keep a muslin bag, in which are tied two tablespoonfuls, each, of whele cloves and stick cinnamon.

For molasses cake of every descrip-tion use a tablespoonful of vinegar to every batch. It will greatly improve both the flavor and the color



Take your choice of these superb new style watches sent without a cent down—on approval (Payable at \$2.50 a Month)

The Movement-In connection with fing on trust methods we have selected our finest highest grade watch for a special offer direct to be people. Material: The best that monge on buy. Workmen: World remoned experts in their line. The Jeweis: 10 finest mode solar

The Jewels: 19 finest grade selected genuine The sevents is notes grade selected genuine imported rubles and sapphires, absolutely flaw-less. (It is well understood in the railroad busi-ness that 19 jewels is the proper number for maximum efficiency.)

maximum emeney.) **Factory Fitted** and factory tested. Fitted right at the factory into the case made for that watch-and re-imed after fitting. No looseness or warring of the parts. No rattle or far. **Adjustment** *I* dyitted to the temperature, isokro-mism and positions. The most rigid tests.

Since the \$1,000 Challenge was made to the gint factories four years are, why have they not answered? Why have not these factories produced a watch **equal** to the Burlington? And this challenge did not ask our competitors to produce a watch **better** than the Burlington. NO. If they should produce a watch **equal** to the Burlington we should be the losers. Our \$1,000 still lies in the bank for competitors to cover.

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direct offer is overwhelming the watch trust. The superb Burlington Special at the anti-trust rock-bottom price-the Burlington Special at the anti-trust rock-bottom price—the same price that even the wholesale jeweler must pay—in paralyzing competition. Such a smeaking and overable/ming offer has never before been heard of in the entire history of the watch industry. Just think of it! You may secure one of these superb time-pieces adjust to the very latest model, the popular new this design, adjust to the the very latest model, the popular new this design, adjust to the second—19 jewels—the most perfect product of the price, direct from us—the identical price void, at the rock-bottom price, direct from us—the identical price void, at the rock-bottom price, direct mon us—the identical price void, at the rock-bottom price, direct mon us—the inple \$2.0 s month, and all the time year are corring this most superb time piece. No wonder competition is paralyzed, become prevene says that his is the greatest wake offer of the age.

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Get this wondertui new watch ho to so hold prepaid. No oblige tions whatever. It will tell you about our giranite fight against. ' the trust and trust methods. It will tell you of quict agreemen which the giant factories have w feelers which enable them to u prices. That is the reason why int. the great watch factories as It the great

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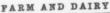
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treal and 47 Pembroke St., Toronto

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Poligree Stock Sales are my specialty Many years' successful experience out Trom Woodstock, Oxford Go. Ont, qualify me to get you estifaction. Correspond nees splitted - 175 Garlaw Avenus, Tor-Wome hold recently at Lethinge, Atta into Ont



Education for Girls *

Jennie Muldrew, Red Deer, Alta. "We have as a rule used more wis-dom with the education of our boys than with our girls. This is because we look upon our men as the producers of wealth. When a boy has com ers of wealth. When a boy has com-pleted the courses prescribed by our elementary high schools, if we can afford to give him additional train-nog, we try to make the added years hear direct on his vocation so that in whatever department of life he controp his amergine he can become in whatever department of hie he centres his energies he can become a better producer of wealth. We have not used the same wisdom with our girls. Political economy has to do with the production, distribution, and consumption of wealth; in fact, it is concerned with the business of the nation. Our government statistics show that as much as ninety per cent, of wealth produced is spent on the home or on the interest directly con-nected with the home. Thus, while men are producers, women as mana-gers of homes become directors of ninety per cent, of the wealth produc-ed. It is a well-known fact that the Political economy has to do ninety per cent. of the weater produc-ed. It is a well-known fact that the majority of women, as high as ninety per cent. in Canada, marry and be-come the directors of homes.

NATION'S GREATEST NEED

NATION'S CHEATERT NEED "Education as it is planned for the nation should meet the nation's great-test need to live in a world and to live abund-antly the in a world and to live abund-antly the unst participate in all its phases. If their training has failed to device executive ability, absolute to meet, and independence of judg-bonesty, and independence of judgment, what shall be the result who ment, what shall be the result when they are thrown on their own re-sources? In educating our girls to-day, we are reaching out toward the future of this land. Its future is in the hands of the women if they did but know their home influence greater to effect good than acts of legisla-tures. ture

To have good homes we must be gin early to implant a love of home in gin early to implant a love of home in the growing girls and a familiarity with the requirements for such. If a girl has reached a marriageable age with absolutely no taste for domestic life and no ambition to learn, she has no right to place herself where she is responsible for a home and where the more the comment of a more than the supershe may have to assume the upbring-ing of children."

Fleur thrown upon burning ill instantly extinguish it, w while.



SPECIAL PATTERN SERVICE

We realise the great interest that all of our readers take in the new spring styles, and hare therefore made arrangements whereby we will be able to give many more partial made and bairy than usual during the able to give many more partial interate many of the attractive spring styles. Boold you in us and we'll do our best to get them for you. When ordering the week hairs and we'll do our best to get them for you. When ordering heired, Address Pattern Dept., Farm and Dairy, Foreboro, Ont. We realise the great interest that all of our readers take in the new soring styles, and have therefore made aroansements whereby we will be able to give many more patterns in Faces and Dairy than usual during the next few weaks. These will than you see in Farms and Dairy from weak fibouid you wish patterns the than you see in Farms and Dairy from weak to weak wrinking the sure to give name and address, size and number of patterns desired. Address Patterns Dept., Farm and Dairy, Pieterboro, Ont.

| COAT FOR MISSES AND SMALL WOMEN.

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CHILD'S CAP. 6 MOS. AND 1 OR 2 YEARS, 7457 EMBROIDERY PATTERN, 486

Close fitting capt are the accepted head coverings for the tiny children. This one is novel in some of its in some of its features and is charmingly becom-ing and attractive while it is quits while it is quite simple withal. The crown is tucked and the band or and the band or brim portion is prettily embroider-ed by hand, while lace banding finish-

For the 2 year size will be needed 3.4 For the 2 year size will be needed 3.4 yard of material 27 or 36 inches wide with 2 yards of banding and 1.1.2 yards of edg-ice. the adge

ing. This pattern is cut in two sizes for children of 6 months and 1 or 2 years of ago.

GIRL'S RUSSIAN DRESS, 7513

Russian dresses are exceedingly smart for the younger girls and they are admirably well apted to school simple occasion and they can be made from almost rial. Ember mate rial. Embroidery is being greatly used and the scallops give a very dainty finish but bands either of 州 but bands either of contrasting material or of embroidery are always pretty and in good style, and if a aimpler finish is lik-ed, the bands on the skirt can be omitted ed. the outputs of the For the 10 year size 114 yards of material 27, 31-2 yards 80 ro 3 yards 44 inches wide with 1 yard 27 inches wide for trimming.

This pattern is cut in sizes for girls of 8, 10 and 12 years

SEVEN-GORED PRINCESSE SLIP, 7486

The princesse slip is one of the most useful garments a girl can own. On the figure, the slip is fun own figure, the makes an a batiste with trim-ming of embroidery and beading. The makes an a but flounce makes an at-tractive finish but it is not necessary.

The pattern is out increased or bealing. This pattern is cut in sizes for mis of 14, 16 and 18 years.

Zinc Covers .-- I would advise any **Zing Govers.**—I would advise any housekeeper to use zinc on all places in the kitchen where she works, asys a contributor to the Ladics' World. For instance, a working-table cever-ed with zinc, or a shelf put lafore a pleasant kitchen window where one can do all cutting of vegetables. meat, and so forth, is a great saving November 21, 1912.

7469 This model

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There are only

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few sons o, from te aring qua-lso a few Vrite us fo ne and see sale. L. H. LIPSIT

> HO No mat

Holsteins n the live Ho He is al

anything in Write,

rs Bull C her dam b. cow. se dam a am of hi cach. A

17 each. Al

sewed and the plain two-piece sleeves are finished with pret-tily shaped cuffs, while the pockets with flaps that are buttoned into place, are quite new and distinctive. The belt T. H. R Separ arran RIVER

portions are se ate and array over the sides of coat; consequen if a plain coat wanted, they can consequently and omitted.

omitted, and the fronts can be made straight. For the 16 year size, the coat will re-quite 41.4 yards of material 27 or 27.4 yards 36 or 21.4 yards 44 inches wide. This pattern is cut in aizes for misses of 14, 16 and 18 years.

GIRL'S KIMONO OR BATH ROBE, 7536

This very attract-re model may be he ive made in true kimone style or it may used for a ba robe. There are hath few tucks over the shoulders to give needed fullness. The sleeves are of the "set-in" sort that give the plain effect at the shoulders but are stitched to the armholes. In the are stitcl armholes. armholes. In the small front view, a bath robe is shown made from the same odel

For the 10 year si the long kimono will require 4 1-2 yards of material 27 or 3 1-2 yards 36 or 44 inches

gown

material 27 or 31-2 yards 30 or 44 inches wide with 1 yard 27 inches wide for the trimming bands; the short kimono will require 31.2 yards 27. 214 yards 36 or 44 inches wide This pattern is cut in sizes for girls from

12 years of age

SQUARE YOKE NIGHT GOWN, 7511 The night i that is full belo smooth yoke is al-ways a comfortable one and always a favorite one. This one and always a favorite one. This one can be made with either square or high neck and with alcoves of any pre-ferred length. There

are just two portions which are gathered and joined to a yoke. gathered The opening at the front is finished with hems and whatever the length of the sleeves, they are cut in one piece each. For the medium

MAL. For the medium size, the gown will require 61-2 yards of material 27. 5 yards 8, or 4 yards 44 inches wide, with 2 yards of banding and 3 yards of edg ine, to true as illustrated ing, to trim as illustrated. This pattern is cut in sizes from 34 to 46 inches bust measure.

of time when one would otherwise have to get out a board. When dishing up anything hot from the store one can set hot kettles on a table corered with zinc, thus making it easier te dish up and serve the meal, one burns kerosene, have a table covered with zinc on which to fill the lamps.



nicely marked Partles wan CLYDESD. nave over 30 h Fierhelle Rell Phone C.

PORT ELG GLENI

Entire crop Dalves and a whose three Echo Sylvia, R. O. M. at 1 cord). Lulu B senior two-y 4 years (we WM. A. SHAT



A. C. I

To mal Prince Henging a few ter bred bull in good yearlin Addres

H. LORN Br

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son, Si s of ric for fu and ins also off tallions, wellent i

liso Hackne and one 4 ears old, an We will be pleased

ALLISO W. P. Allison

HOLSTEINS

Forest Ridge Holsteins

few mone of King Segis Pieterie for from tested dama. Priced right con-ring quality. so a few Heifers bred to him for sale. rite us for what you want, or better, and see them. Anything we own is sale.

H. LIPSITT, STRAFFORDVILLE, ONT.

HOLSTEINS

No matter what your needs in Holsteins may be, see RUSSELL, the live Holstein man.

He is always prepared to furnish anything in Holsteins.

Write, or come and inspect

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RIVERVIEW HERD

Offers Bull Calf, dam 15.96 thes jr, 2year-old; her dam a 27 lb. cow and G. dam a lb. cow. Sire King Lasbella Walker, whose dam and her daughter, dam and d. dam of his sire average for the four 2617 cell. Also a ker A. R. O. cows. P. J. SALLEY. LACIMUM RAPIDS, QUE.

Holsteins nger now than ever FERNDALE STOCK FARM Bulls from 1 to 8 mos. old, all sired by **Korn-dyke King** Schillard, whose dam and 9 marest dams made 37 ibs, butter in 7 days. We have over 30 head of grade Holstein heffers 1 mos. old, all supposed to be bred. They are nexty marked, large and in good condition. This bunch before Tablingarbund should inspect this bunch before Tablingarbunds should inspect CLYDESDALES - We have over 30 head to choose rom. Come and see them ! Fierheller Bros. Bell Phone C.P.R. Station PORT ELGIN. ONT. **GLENDALE HOLSTEINS**

LIGHTFACE ROLSTEINS Entire crop of Pure-bred Holstein Bull alves and a limited number of Helfers, file of sylica, over 21 lins, bulleter in 7 Jays 8.0. M at 1 year 11 months (world's re-ord). Lulu Keyes, 1236 [ins, in R. O. P. as a senior two-year-old (world's record), and fewel Pet Posch Ds Kol, 336 lins, butter t 4 years (world's record). Prices reason-but, All Correspondence promptly ana-

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Avondale Farm HOLSTEINS, CLYDESDALES, YORKSHIRES AND DORSETS

A. C. Hardy -Prop.

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May Echo Has Made 31.34 lbs. butter in 7 days and 7866 lbs. milk in official work.

Bo, milk in official work. Hor son, Sir Echo, also several Bull Calves of rich breeding, are for sale. Write for full descriptions, or better. come and inspect. the source of the second second second second the second second second second second second are complement individuals of popular breed-ing second sec

Also Hackneys, two stallions, 3 years id and one 4 years old, and two mares, years old, and one mare, 4 years old.

We will be pleased to answer your enquiry as to weding, description and price, CK FARM Chesterville, Ont

ALLISON STOCK FARM W. P. Allison

MARKET REVIEW AND FORECAST .

Toronto, Monday, Nov, 18--Wholesalers, eggs die to 33c. Cold storage eggs are generally report that trade is in a health-ing condition than at this time last year. Tyro is 146 to 52c. The retail ing condition than at this time last year. Tyro is 146 to 52 at 100 trade are sinch and the viriak demand for winter goods. Head are sinch and the viriak demand for winter goods. I device of eggs at Montreal are sinch and the start of the since the since the since the since the since are retained.

Speculation is rife in trade circles as to Speculation is rife in trade circles as to what Woodrow Wilson and the Demo-eratic party in the United States will do to their tarift. Pres. Wilson has already called a meeting of the house for next April, and has made it clear that the ohief business will be an immediate re-duction in the tariff. Changes in almost any line will have an effect on Ganadian trade. and the reductions in the Mixed trade, and the reduction in the United States tariff on food stuffs will have a big influence on the produce trade of Canada

Potato receipts have been of a better quality, but reports of rot are prevalent quantity, but reports of rol are provalent. Quotations are the same: 95c, in car lots and 81.10 out of store. At Montreal there is a good demand for potatoes at 70e to 75_{2}^{5} a bag in car lots.

Beans locally are quoted at \$2.90 to \$3 for primes and \$3.10 for hand picked.

LYNDALE HOLSTEINS

LINDALE HOLDICALE BROWN BROS., ·

· · LYN. ONT.

Notice : After 1st of October, 1912 kindly address all correspondence to VAUDREUIL, QUEBEC, instead of Manhard, Ont., where I will be in a better position to furnish my customers with No. 1 Holsteins.

Gordon H. Manhard - Vaudreuil, P. Q. FAIRVIEW FARMS HERD

Offers a spiendid son of Rag Apple Korndyke, the young bull we recently sold for \$5.000.00, and out of a pound daughter of Pontiac Korndyke (record made at 4

Calf is five months old, nicely marked and straight as a string, and I will sell him. Well worth the money. WRITE ME FOR PRICE, ETC.

E. H. DOLLAR, Heuvelton, New York ("RESCOTT) Holssteins Over 4% Fat I have established on my from as Ochawa, Ont. a of the richest blood obtainable. My object is to bread a strain of holsseins, which reset offering for and hail give mild by or cost or over in fat cestion. All reset offering for a strain of the strain of the strain of holsseins, which reset offering for a strain of the strain of the strain of holsseins, which are world's Champion Busier Cov.

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> economical feed you can buy. It is in Protein-guaranteed over 41.0 per is the most economical feed you can buy. It is very high in Protein-guaranteed over 41.0 per cent protein — three times more protein than wheat bran.

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Owl Brand Cotton Seed Meal takes the place of tonics and high-priced stock foods; it increases the appetite and acts as a food at the same time.

OUR FREE SERVICE TO YOU

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ALLEN & SIRETT FEED BROKERS, Pacific Bld TORONTO - ONTABL Canadian Agents for F. W. Brode & Co., Memphis, Tenn. ONTARIO

Rescipts of eggs at Montreal are slack is farmers are not putting them away for their own use. Releast are quoted at 30, to 30 150, is storage eggs. The 127 150 Quotations on dressed poultry are as fol-lows: Live chickens, 50 to 110; fowl, 8t to 170; grees, 8t to 160; dressed poultry, 3t to 55 their farmers' Market spring chickens re-tai at 18 to 208; fowl, 8t to 150; grees, 56 to 100; duels, 30 to 208; fowl, 18t to 150; grees, 50 to 308. POTATOES AND REANS Canada. Money is hard to get, so much of it being in use in Western Canada. The ruling quotation for call loans is 6 per

WHEAT

cent

When a operators four that the markets of the word are in danger of receiving an over supply. The American crop is a bumper one, and the crop in Argentine ou which cutting will start in a few days, will also yield well. Three weeks ago wheat in Toronto ruled at 81. New No. 1 Northern is guoted at 92.26. Other quo-tations are: No. 2, 90.165, No. 6, 82.56 and Ontario wheat is in intrivy good demand for blending purposes at 86e to 976 for the best grades, and from that down to 70e for gor grades **COARSE GRAINS** Wheat operators fear that the markets

The new corn crop has had its influence in prices, and quotations have dropped

and Dairy's great Breeders' Number out Dec. 5, in time to be distributed at Guelph Winter

have for sale?

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first served !

EGGS AND POULTRY



1211

A bagine of routic tiernes (3442) and out of Imported Dam. Born April 15th. 1997. Large, straight and nicely Inengeveld Fayne De Kol (7277). Also a number of Young Buils. One nearly ready for service, whose grand routly addy for service, whose grand Tidy Abbelerk's Mercena Posch (4391). Prices low.

Fenwick Station, T. H. B

A few Females for sale. Calves, Year-lings or Cows. 50 head to select from. Most of the young stuff sired by Paladin Ormsby (7515). Service bulls, Paladin Ormsby and Highland Calamity Colantha

Korndyke Pieterte Paul ROTROYKE PETERTE PAUL No. 80,9, 60 Feril for val. S. Tri, Margie ear Deterter Paulon, No. 654, no. earl of 17,304 host of mill, 687 host host of no. 10,000 host of host of mill, 687 host of no. 10,000 host of host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of no. 10,000 host of no. 10,000 host host of GEO. MOORE & SON, Proton Station, Ont.

FARM AND DAIRY

Would you like us to pub-lish a photo of some animal you 205.001 Write us to-night about the

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Would you like to have a pic-

We will print over 16,500, and mail them all out for you. This is worth your while. First come

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ELMDALE DAIRY HOLSTEINS

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HAMILTON HOUSE DAIRY FARM

The Home of Lulu Keyes, the World's Record Senior 2 Year Old Cow

Bull Calves for Sale From such cows a

Edith Prescott Albina Korndyke 111bs. butter in seven days. 11 months after calving Butter Boy Hongerveld Girl, 16.381bs. butter in seven days. These Calves out of Bulls booked in High Records

Write to us or come to see our stock

D. B. TRACY COBOURG, ONT.

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A Man who understands the care of dairy extite and hogs. A man who loves his work and will take an interest in it is the one wanted. State wages expected and give refer-ence.

THOS. NOBLE High How Stock Farm, Daysland, Alta.

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2 CHOICE YOUNG HOLSTEIN BULLS, at half-price. One ten and one eighteen months old, from choice dams with good records.

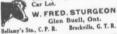
MARTIN McDOWELL, Oxford Centre, Ont.

LAKEVIEW HOLSTEINS

To make room for the coming crop of calves, we are offering bulk of the rich-est breeding at farmer's prices. Grand-sone of Pietertie Hengerveld Count De Kol and of Colantha Johanna Lad, all out of Record of Merit dams. Come now and get

BRONTE, ONT. E. F. OSLER





HOLSTEINS AND TAMWORTHS

Glen Buell, Ont. Brockville, G. T. R.

From R. of P. and R. of M. Dams, sired by Sir Lyons Hengerveld Segis. His dam's cord 331/2 lbs His sire King Segis.

J. McKenzie, Willowdale, Ont.

CAMPBELLTOWN HOLSTEIN HERD

Headed by KORNDYKE VEEMAN PONTIAC. e is a son of Sir Korndyke Pontiac Artis. And his He is a non of Sir Korndyke VEEMAN P dam is the great young cow. Beatrice Bondia Veeman. Record at 2 years immuni dam is a polb, 4-year-old daughter Hengerveld. Orders booked now for Oe November Bull calves from this great e-and cose who s. And his Korndyke th, 1,900,60 itter. Her October and R. J. KELLY, Campbelltown Farm

TILLSONBURG, ONT.

FARM AND DAIRY

At Montreal the raing price for mana picked is \$25 Mick PRODUCE There DAIRNY PRODUCE There is DAIRNY demand for both recommer and datry butter at raining ported as quite pientiful, and any imme-diate increase in butter quotations is not looked for. Wholesale desires quote as follows: Dairy prints, Sie to 250; inferior, and the select ery prints, Bio 520; inferior, and the select inferior, and the select of the select as at this time last year. This is hard to understand, as many other lines of east: blewes to induce in printsee, bleoon in chewse to advance in printsee, bleoon in a hardly comparable. Local quotations for New twins, H 34e to 150; new large, 14 126.

14 1-2c.

The low twins, 14 34c to 35c; new large, 31 3c. LIVE STOCK. The market for live steel, is decidelly dull and quotations are down expression was built of the limit the week, and many statistic steel is the week, and many statistic steel is a steel of the statistic steel statistatory prices were readiled. Very light shipments towards the close of the much of the stock patient of the statistic week prevention a still further de was do-mund of the stock patient of the stock statistic steel and the stock of the much of the stock patient of the stock store of quotations is about as follows: (holice exprincipation, 85.75 to 86; good, 85.25 to

Bigger Service Than Ever You will find it to pay you well to sell your surplus stock through advertising in Farm and Dairy's Creat Breeders' Magazine Number, out Dec. 6. Circulated extra at Cuelph Winter Fair.

Fix up your advertisement tonight. Send it to us early for Breeders' and Xmas Number,

Breeders' and Xmas Number, and we will serve you well. First forms close Nov. 27th. Yes, Brother! You will be wise to attend to this matter

now!

\$5.75; com. to med., \$3.50 to \$5.25; choice cows, \$4.75 to \$5.40; med. to good, \$3.50 to \$4.75; bulls, \$3 to \$5.50; feeders, \$5 to \$5.50; stockers, \$3.50 to \$5 and canners and cut-ters, \$1.50 to \$3.

moterne, \$3.20 to be ann canners and ell-ters, \$3.50 to \$5. in active demand at Mich cover at \$5. in active demand at \$5.00 to \$5.00 t

MONTREAL HOG MARKET.

MONTREAL HOG MARKET. Montreal, Saurday, Nov. 16.-Three is no actual change in the condition of the local market for live hogs this week, but the feeling was easient and lowing for the dags here were fairly heavy, and met with a good demand from packets. The offer 83.66 a cett for selected lots, weighted off car. Three is fair trade in dreased loogs and prices are steady, fresh-killed off car store in guoted at 32 to 81225 a

EXPORT BUTTER AND CHEESE. EXPORT BUTTER AND CHEESE. Montreal, Saturday, Nov. 16.—The mar-ket this week is very duil and prices show ed a still further decline, the highest price paid at any point being 12 lake for colored cheese, and as Brockville quotations ram-ed all the way down to 15 & a although some lois were sold at 11 34e and 1174e. Only a few boards were come this week. some lots were sold at 11 J4e and 117.6c. Only a few boards were open this week, and nott week will see the final board meetings for this season; and, unless there is an improvement in the demand from Eucland. even lower prices will rule next week. Receipts are steadily declin-ing, and his week amounted to only 37.000 bore. The shipments for the week will

At Montreal the ruling price for hand be fairly heavy, as most of the dealers are getting out as much as they can on be fariy newy, as most of the seen on are getting out as much as they can on the boats which are sailing this week and next week. Navigation direct from Mont-real closes next week, and after that shipments will have to be made via Port-land and St. John at higher cost for fraight.

freight. The market for butter is steady, with demand from the local trade, and also from the West, and shipments from Mont-real to the West anount to eight to 10 ears a week. Pinest Eastern Townships ereamery is quoted at 30-26 to 30, with underfinest at about 30 to 11 offering at 30 126 to 10 co. Montreal for delivery during the course of the winter.

GOSSIP.

A VISIT TO MANOR FARM HOLSTEINS

the two heiters under six months that, he will sell. Mr. Gooderham had only recently gotten his copy of the Holsten Bine Book, Ho drew our attention to severe the seven the severe of the Holsten Bine Book, Hol drew our attention to severe which were "Booking of the severe the seven "Booking of the severe have been agying so much of late, has been agying so much of late, has been agying so much of late, has been in the work which all of the papers have been agying so much of late, has been in the work waten by the great two-generoids King Portland A rear. She has been nearly reacted by the great two-generoids King Portland Manor Kate, which core has given over 22,000 Hos of mills and around the bins butter in semi-official seven-id making the with "Hossind," a mature cow with only four or five younds of butter more to her credit! The Bins Book shows Not diagKiters and Se proves the Manor K at & R. Of daughters and Se proves the maximum bar.

daughters and 56 proven some. We see saturished to find that Mr. chine, claiming it to be unsuitable for use other, claiming it to be unsuitable for use on his purch-fred cover on which he works for records. Every cove in Mr. Oph for hard's herd are now to be runs, they fresh-ed that is an even on the time through the yearly in, entered and taken through Despiteding all of the ones in Mr. Oph for the first of the year.

Practically all of the cows in Mr. Gernam's herd are in excellent shape. The condition and their breeding should able Mr. Gooderham to announce with nce within the next year some yearly recondecided interest. of

We were much interested in a helfer calf of Mr. Gooderham's sired by Pontiac Korndyke, and out of Nicolo Pauline Friend, a cow with a record of over 26 Korndyke, and out, a record of over 36 Friend, a cow wild ays. This heifer is a loss butter in un specimen of the breed. We for sale, the volt command readily form 1500 the 110 dependence of the version 1500 to 1500. We were also spe-cially attracted by a bull calf, three-quar-ters of the blood of Pontiae Korndyke, and in Mr. Glooderham's herd. This each is mostly white, well maried with a feed in southy white, well maried with a He is every inch a bull, abovin site, and handles like site. Both Royal' breeding: sters show plainly then y and leaf Mr. Good-sters show plainly then y and leaf Mr. Good-ard Mr. Glooderham is a set of the source of the source is the site will be a set of the source of the source is the source of t show plainly their This Pontiac Korndyke bull calf Mr. Good erham offers for sale.



Now is the time to beautify year flome with Combossed Metal Casily (splical ! Never Cracks) Everlasting ! Get ready for Christman et ready on chaitman Any handy man can erect. a Post Card to us with the word "Ceilings" and your name and address will bring you

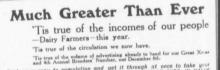




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First Forms Close November 27th

November DOLLAR'S H Having such collar, of Her



One of the Farm is Tortil Dec. 9th, 1910, 45.13 lbs., or o pure-breds don has heard that duced 107 lbs. o One of the b ever to reach Boon, purchase Breslau, He w

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Breslau. He w dyke, and is Boon, with a re old of 32.17 bs and an averag Mr. Dollar expe b, record this record as a ju hs, of butter. bull is a lividual. Another fine

Richards y the Johann Southe Land at



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and Pac The Grand most direct r

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No more o rand Trunk ncinnati mach, Nassa Beach, Nassa Round trip all the best r information a obtained from Agent, or wi Toronto, Ont. get se.

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JARM AND DAIRY

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DOLLAR'S HOLSTEINS IN CANADA Having such stock as has Mr. E. H. pollar, of Heuvelton, N.Y., whose story is given on page three of Farm and Dairy this week, it is not to be wondered at that a number of Canada's leading Holstein a number of Canada's leading Holstein preciers have been anxious to make pur-chases from Mr. Dollar's herd. Among these who have done so use Mr. A. C. Bardy, of Brockville, who in January, Sili paid Mr. Dollar \$2,000 for what Mr. palin ar then considered to be the best three-year-old daughter Ponitias Korndyke three-pear-old Gaugnter Pontinae Korndyke had ever sired. She had a record of 25.51 has of butter. Colonel Farewell, of Oshawa, has paid Mr Dollar \$4000 for four head. Two of these were daughters of Pontiae Korndyke. and two were daughters ters of Rag Apple Korndyke. Mr. Dollar \$ 1000 June 1000

same cow that produced Pontiac Lady Korndyke. His breeding combines that of the three greatest Holstein strains known, the Korndyke, Johanna and Hengerveld De Kol

De Kol. Other Canadian buyers of good stock from Mr. Dollar include J. W. McCornick, of Morewood: Benj, Kells, of Sunbury; Howard Morkley, of Williameburg; J. Taylor & Sons, of Sociland; H. J. Mor-land, of Sunbury and G. A. Babeock, of Harrowsmith, Ont.

WINTER FAIR JUDGES

WINTER FAIR JUDGES The judges for the Winter Fair, which opens at Guelph on Monday, December 9th, and the classes upon which they will place the awards are as follows: Clydesdales and Shires-George Charlton,



The Pride of a Wentworth County Government Herd

One of the cows of which they are particularly provid at the Hamilton Asylum Farm is Tortilla Johanna Rus, 569, the pure-bred Holstein here illustrated. From be: Wh, 1994, to May 15th, 1981, ale produced 649975 lbs. or onills, an average of \$25 bbs. or over 18 quarts of milk a day for five months. Who earys well-bred garberded don't pay? — Photo by an editor of Farm and Dairy

 -Photo by an editor of Farm and Dairy.
 -Photo by an editor of the set of editor of edit Boom, with a record as a junior four-year-do of 32.17 Bos. of butter in seven days and an average pur cent of fat of 4.86. Wr. boline expects her to make a 37 or 38 hb record this year. Sho has a 30-day record as a junior four-year-old of 130.5 hs of butter. Besides his grand breeding backbuilt is an exceptionally good in backbuilt is an exceptionally good in dividual

Another fine bull was sold to J. W. Richardson, of Caledonia. He was sired by the Johanna bull, and is out of the

Southern Farm Facts

Alfalfa makes 4 to 6 tons per acce; Corn 60 100 bu. All hay crops yield heavily. Bu and Pork produced at 3 to 4 cents per lb Apples pay \$100 to \$500 an acce; Truck cro \$100 to \$400; other yields in proportion 100 to \$400; other yields in proportion. THE SOUTHERN RAILWAY Wells \$400 you find a home in this latd of opportunity. Book latd of opportunity. Book M. V. RICHARDS. I and and Industrial Agent Room 30 Washington, D. C.

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Nassau, etc. Frida d trip tickets, giving choice of best routes, together with full tilon and reservations, may be d from nearest Grand Trunk or write A. E. Duff, D. P. A., , Ont. ation ed fr Agent Toron

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Delay is costly. Act now. Order your ad to be in several issues, and in our great Live Stock Number, Dec. 5th.

Cousins, Harriston, (reserve) Prof. G. E. Day, Guelph Shropshirze-H. N. Gluson, Day, Guelph Shropshirze-H. N. Gluson, Delaware: W. H. Beatte, Wilton Grove, Long wool grades-Jahn Rawlings, Foresti James Douglas, Caledonia South Downs, Dorste, Hampshirze and Suffolks-W. H. Beattis, Wilcon Grove. Seattis, Wilcon Grove, Status, Status, Texastrophysics, and Suffolks-W. H. Beattis, Wilcon Grove, Status, Barniford, Yerkshirze and Tamworths - D. C. Flatt, Millervee, Bacon hogs - Prof. G. E. Day, Guelph Chester whites, any other bread, grade or grows-Prof. B. Hood, Guelph. Dressed ear-ced, B. Hood, Guelph. Dressed ear-ther the status of the Savita Status, Policy Net-Prof. H. H. Dens, Guelph. Dairy test-Prof. H. H. Dens, Guelph. Sedo-Prof. C. A. Zavita, Guelph. Guetto off three special prizes for four, turkeys, gesse and ducks as follows: Best owner collower, Guelphane are to consider

collection, second best collection, third best collection. Collections are to consist of five or more birds shown. In addition to the ribbons there will be a cash prize for the best bird in each class.



1000 PERCHERONS Stallions and Mares WANTED in ONTARIO

I have sold nearly all I brought over this summer and am leaving for France the 22nd of this month for another shipment of will arrive at my barn, Weston, Ontario, about December 1st. Will have an exhibit at Guelph Fat Stock Show. Price will be in reach of everyone that wants a good in reach of everyone that wants a good stallion or a big brood mare, and terms to suit. Write for particulars, or better, come. No trouble to show what I have. Visitors always welcome. Address :

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' will profit you most when you buy Holsteins to get a strain of Holsteins that is popular and well known. I

There is a great reason for the popularity of Holsteins in general. There is a greater reason for the great popularity of several indi-vidual strains of Holsteins.

The popularity of a given strain of Holsteins is due to the records of production of milk and butter fat of individual cows in that particular strain.

believe the very best strain of Holsteins to-day are of the KORN-I believe the very best strain of Holsteins to-day are of the KORN-DYKE breeding. Old Pontiac Korndyke himself commands a ser-vice fee of \$500. His illustrious son the great "King of the Pon-tiacs" is not available for service at any price other than a half interest in the stock he gets.

Much of the stock I have is of this Korndyke strain. My young stock is mainly sired by my bull:

Prince Hengerveld of the Pontiacs

He is a son of "King of the Pontines." He has gotten me some very fine stock.

I am offering some of his get for sale. When you buy this stock you will be getting Holsteins that are sure to be right-Holsteins that are sure to be popular-Holsteins that you will find it easy to sell, because of the great popularity of this strain of Holsteins.

the other set and the set of the

Remember, I invite you to come and see my Holsteins, or write. I have over 100 for you to choose from.

THE MANOR FARM GORDON S. GOODERHAM

CATTLE YAOS. Sheep and hog tage, modal ear blad's with owner house and trouble avoid losses Write for free circular and sample F. G. Jaues Bourmanville, own



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FOR SALE-2 Sons of King Payne Segis Clothilde, from R. O. P. cova. Also three Clyde Fillice and 3 Stallions. Yearlings. -B. M. Holtby, Manchester, Out.

ned Dairy to-day about it. CryDESDALES, Imp. Stallons and Fil-lice. Fresh importations always on hand. Every mare guaranteed in foal. -J. & J. Semple, Mirerton, Ont., and Luverne, Minn., U.S.A.

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FEATURES

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Rochester, N.Y. Man Found Something Good in Canada.

Mr. Thos. Johnston, whose home is in Rochester, N.Y., 44 Tremont Strest, is enthusiastic over one Canadian product least. He says

as least, the mays: "While visiting in Millbrook, Ont., I was suffering from a sepatined knee, and could get nothing to help me until my father gaves me a bottle of Egyptian Link-ment, which relieved me in a few minutes I have never had anything to minent was introduced to the puel of minent was introduced to the puel of Rochester it would sell like bot oakes."

Quick work is one of the strong points of Douglas' Egyptian Liniment, it goes right to the spot

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at work . But first ask Dept. W to mail you our Disc Harrow Catalog. Carl Com T. E. Bissell Co. Ltd.



PRINCE CO., P. E. I. KENNINGTON. Nov. 6.-It has been radin-ing for 12 hours. It has been ideal wea-ther for digging potatose. They are about 70 per cent of a crop. The turnips are a little more than half a crop. Poin-tose are 25 a bush: cast, 42; pork, 56 to 9.15c; bed; for to 714c. Fail work is pretty well along and people are prepar-ing for winter—T. G.

KINGS CO., P. E. I.

KINGS CO., P. E. I. CARDIOAN, Nos. 11. – Potato digging is over. Farmers husy pulling turnips, which are only a fair crop. We have had the finest cost of weather this fail. No hard fronts after crops where the state of the state diped at 44 to 164c; potatose, 25c; tur-diment of the to 45c; potatose, 25c; tur-lips, 6c; Not much demand for red mines for that crance ta three-marked command at 44e to 45e; potatoes, 25e; tur-nips, 16e. Not much demand for red potatoes yet, but expect a three-matted schoner shortly, which will take. It you buskels for the Wertly Not 11.—This fall has a 40 or frost yet. Potatoes are all in now, and a spiendid crop has been gathered now, and a spiendid crop has been gathered. Tarnips will be a smaller crop than last year. Most of the ployed point of the half a crop. Denoting is doning in a day to the function of the ployed of the ployed point of the ployed point of the last way. Most of the ployed point of the half a crop. Denoting is done apples. Most of the ployed point of the ployed apples. Most of the ployed point of the last has a start of the ployed point of the start of the ployed point of the ployed point of the other start of the ployed point of the plo

QUEEN'S CO., P. E. I.

nest the to the ramb. 414e. -0. A. A. QUEIN'S CO. P. E.I. THARTOTROWN, Nov. 2. A. The were the second secon

QUEBEC. MISSISQUOI CO., QUE.

MISSISTOTON CO. QUE. PHEBLIOHSBURG, Nor. 7-Parrors are hurrying to finish the fall work before snow falls, but there is a lot of plowing to be done. The there is a lot of plowing to about a lither work of the potatoe say affected, and in a number of instances the entire crop has rotted in the cellar. Weather

has been very favorable for cattle, and they are at pasture every day. Thresh-ers report that most of the grain comes out of the mow in bad condition - C. A. W. ONTARIO

HASTINGS CO., ONT.

CHAPMAN, Nov. 13-Wet weather is hin-dering fall plowing, and is making the harvesting of root crops difficult. Some silos are just being filled and some seed clover remains to be harvested. Seed corn cover are: just being filed and some seed clover romains to be harverded. Seed corn will likely be soarce as most corn did not become ripe before being frozen, and the continued wet weather has made seed diffi-cult to cure. The price of polatons is very unitrus owing to the uncertainty of their keeping qualities. Hay soals fills to Si5 per ton and hogs at \$735 per cut-Tl. 8.7.

WENTWORTH CO., ONT.

WENTWORTH CO. 0NT. KIEKWALL, Now A.-Polatose will not be tor 60 privent of a crop. They have practically note at all. Some varieties are worze than others. These who have the Euroka or the Garman report very few decayed pointsew, whereas the Green Monnian is nearly a total loss. Several farmers report that their pointsex and spoiling after being put in the cellara-C. A. W.

OXFORD CO., ONT.

Protection or Free Manisticas of Canada and the United Statisticas of Canada and Statisticas of Statisticas and the Statisticas of Canada and Statisticas of Statisticas and the Statisticas of Statisticas of Statisticas and Statisticas of WOODSTOCK. Nov. 12 - We have had a couple of fine days, but it looks like rain again. The ground is very wet, so much so that it is very hard to get along with so that it is very hard to get along with the farm work. Turnips are not all storsome farmers cannot get near yot. ed yet: some farmers cannot get near them on account of the wet. They are an extra good erop. Cows are doing well, especially those that are well attended to. Hogs took quite a drop, selling now for \$7.50, but are expected to go higher Fat butchers; cattle are very scarce and high. A. M. McD.

MANITORA

DAUPHIN DIST., MAN

DAUPHIN DISL, mad. DAUPHIN, Nov 6- We are having a hard time saving the crop. We had three big rains in August and Sequember that alled the ground, and half our crop had to wait until freesa up before we could get at it. Hundreds of binders are running at it. Hundreds is from a good at H. Hundreds of binders are running to-day. The ground is frozen a good crust with no snow Hay is very soarce, as meadows have been under water since haying.-J. I. D

BRITISH COLUMBIA.

NEW WESTMINSTER DIST., B. C.

NEW WESTMINSTER DIST. B. C. MATNGUI. Nov. 2.—Most of the grain in this district harvneted in good condition. The crop is an average. Continued wet weather has interfered with potato dig-ging: many still in the ground, the crop is much damaged with y iried. Pastures and manguice descellent: nonline the tra-test of the stilling from the stilling from the streng. Hay is in domain at 85 for ho ton. Dressed beef, 15: very at 850 groups, 10; F. P.

CATTLE AT THE WINTER FAIR

CATLE AT THE WINTER FAIR Beef castle at this year's Winter Fair will complete for \$2500 in prizes. The prize-list has been supplemented by \$300 from this been supplemented by \$300 from the Shorthorn Breeders' Association Shorthorn Breeders' Association Shorthorn Angus Breeders' tambén American Aberdeen Angus Breeders' association in the classes for their re-spective breede

Association: in the classes for their re-matter break and the section of dairy catter here and bard has hereased all first prizes by 55 over last year's offering. In the sections for Shorthorns, Arrahires and Holsteins the prizes have been supplemented by 7 september 2000 and 2000 and 1000 and 10000 and 10000 and 1000 and 1000 and 10

At Streetwille Fair we won the silver tea service offered by the T. Raton Co., I.d., for the best berd of dairy cows. We won with pure-bred Ayrahires. The others competing were Osler's Hostkins from Bronte and J. L. Boy's Shorthorm/Free Erindale-Jane. B. Boy, Peel Co., Ont.

November 21, 1012

Protection or Free



The Teat Upward

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Write For FF

The Sharple ORONTO, ONT.





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When buying Calfine you ge anadian product, pure, wholes nd nutrificus, and have no pay.

DISTRICT DAIRY MEETINGS District dairy meetings will be held

Northumberland, Warkworth, Nov. 21

Hastings, S., Belleville, Nov. 22; Prince Edward, Picton, Nov. 23; Frontenac,

Edward, Picton, Nov. 25; Frontenac, Sydenham, Nov. 25; Lennox, Napanee, Nov. 26; Leeds, Westport, Nov. 27; Lanark, Lanark, Nov. 28; Dundas, N., Williamsburg, Dec. 3; Stormont, Find

ec. 4; Glengarry, Alexandria, Dec. rescott, Vankleck Hill, Dec. 6; Re

frew, Renfrew, Dec. 10; Carleton, Ric

N., Queensboro, Dec. 17

mond, Dec. 11; Russell, Vars, Dec 12 Grenville, Hockston, Dec. 13; Hastings,

in Eastern Ontario as follow

Prescott.

to pay. Get a trial bag of Calfine. dealer has it, or if not, send \$2: us and we will ship you 100 lb Calfine as a trial, and we will pay the freight to any static Ontario, South and East of bury.

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Every farer can afford an Ellis Cool of English There is a farmous power from coal of than other en-gines do from gasoline. They are safe, as well as obsap: no danger of explosion or firs. The strongerst and simplet farm english and the three moving party out experience of grind feed, all a field costomers use these englishes to grind feed, all a cost of the power is and the safe of the safe as wood, pump, threah run etwals in horses or hired or in the power and start it running, and no nurther attention is necessary: it will run till you

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es the Sharples Mechanical Milker to dr from the udder quickly, gently and with he udder quickly, gently and with the standard state of the state of the back up into circulation after each do soothes ard quicts the animal and mal fown her milk, increasing the milk yie Sharples Milker one man can milk 45 cc Write For FREE Catalog, N

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AN INTERESTING GOOD BOADS REPORT A valuable contribution to the "Good Boads" movement, now apreading so rapidly throughout Canada, is the "An-nual Report on Highway Improvements" for 181, issued by the Department of Public Works of the Province of Ontario. elderable detail, describing the best methods of road construction in Ganada and the United States. Until the advent of the automobiles, the principal types of roads were dirt, gravel, macadam and telford, but it soon became apparent that noise of these would stand for any length of time. It thus traffic processary to try scome new form of con-struction. This led to experimentation AN INTERESTING GOOD ROADS REPORT

struction. This led to experimentation with various different materials, among Quite a number of concrete highways have been built in the last few years. Like all new materials, the early experi-ments were not a complete success. This was due principally to the lack of exper-ience in handling the material for this purpose, and at first there were as many different ways of building the roads as light of the experison gained by these pioneers, several forms of construction have survived.

there were roads themelves. But in the light of the experience gained by these plonears, seven its and the secondary of th

the appearance that apread is apread, just sufficient to be saturated and held by the tar. appearance these parements re-emble these applial, the ther and sand coating overcoming the glare and reflec-tion of hest. The tar and sand fills the expansion joints and depressions, serving as a wearing surface. The expansion joints disappear from view and do not coating deadens the noise of traffic, makes the area of the service of the service of the parameters in provide a to most any the racks appear, they are painted with tar and sand so that they do not crumble under traffic. The trainment, in short, overcomes the more object "Concrete payments as hereitofore laid in Ontario have cost about \$1.15 a square yeard. The tar treatment has cost about two cents a square yard, and the treat-ment has been found to last for two years, making the est shart of year anonum if further aspectnee proves the anonum if in the small toren and villages in paying their main streets, and village radiating from largements agent with paying their main streets, and would be exceedingly the years it has been subjected to an inter success.

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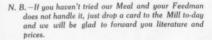
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