

# FARM AND DAIRY



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(2)

Do You Know that every important mechanical device has its imitators?

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Do You Know that the Simplex is the only separator having the self-centering bearings?

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Note the heavy, compact, construction Separator and convenient height of supply can and discharge spouts. The top of the supply discharge spouts. The top of the s can is only 3 1-2 ft. from the floor.

the better you like it. The better you know some separators the less you like them. There are thousands of satisfied SIM-PLEX users in all parts of the world, which should convince you that The Simplex Link-Blade is still in the lead.

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WE WANT AGENTS IN A FEW UNMEPRESENTED DISTRICTS

OIX Demonstration Orchards near Collingwood, Ont., two years ago were the cause of A GREAT AWAKENING IN APPLE GROWING.

One old orchard of less than one acre never before in its best year yielded over \$ 50.00 gross return. For years it returned practically nothing. It was a failure. The owner was going to root it out.

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Last year there were sixteen Demonstration Orchards. Furthermore, there were monstration Orchards in all of the leading apple growing districts, These have shown that ALMOST UNBELLEVABLE PROFITS are being made in alg Orchards. Demo Apple Orchards. They have caused a great revival of interest in Apple Growing, which will be at high tide this year.

Take Advantage of This High Tide. Get Into Our Big Orchard

Annual-Out March 7th.

Write to-day for your space. FARM AND DAIRY Peterboro, Ontario



THE IMPS OF NATURE WILL ROB YOU IF YOU DON'T WATCH OUT

One of the most prolific sources of waste in connection with most farms One of the most prolife sources of wate in connection with most farms in the large, uneared for, untramped, uncovered manure pile. Beginning with the thaws of late winter, much fertilizing value is lost almost before one knows it through the loaching of the liquid manure, which is the most valuable since it contains the readily available plant elements, which because of their readily availability and solubility are carried off in the leaching waters. Then, too, our cartoonist might have portrayed some especially if lights of that valuable constituent infraedent and free supercially if lights of that valuable constituent infraed million and free farge of the ingest of the valuable constituent infraed million and the so-themi-cally changed as to become lost in the atmosphere in the form of volatile samonia. ammonia

ammonic. Curiously enough, as is portrayed in the cartoon, there are general evidences of neglect and failure on farms where the manure is allowed to waste. Of all places it is on these poorer farms that the manure should receive the greatest care, since on these farms it is so badly needed in order to restore prosperity.

A Muskoka Farmer Writes Editor, Farm and Dairy,-I think ou are getting right down to the ou are you are getting right down to the root of the matter in saying that in Canada we lack legislation for the easy incorporation of cooperative so-cieties. I always thought Canada considered herself a forward, proa forward, pro-We hear it put gressive country. forward often enough

We want similar legislation to what there has been in England for many there has been in England for many years past. It was the townsman in England who was driven to coopera-tion through high prices and over-icharges. We want cooperation in town as well as in the country. Can-ada is really vory backward in these matters

We want more markets and cattle We want more markets and cattle auctions in the remoter districts to stimulate production. What is the use of me raising better-fed beef than my neighbor if I get no more for it? A good auction would soon see to it that the best animal got the best price. There is more incentive in that than in ribbons at the Agricul-tural\_Show.—"A Muskoka Farmer," Fox Point, Ont.

# **Ontario Plowmen's Association**

Upwards of 150 delegates were in attendance at the annual convention the Ontario Plowmen's Association held in Toronto, Friday, Feb. 2nd. These delegates represented the dif-ferent branches throughout the Province ce. The meeting was enthusiastic. President Rennie's address contained many telling references to the important work of the association. He referred to the assistance given by the Provincial and Dominion Gov-ernments over 30 years ago to agri-culturists and the large grants that

culturises and the large grants that were given over a quarter of a cen-tury ago to Provincial, County and Township plowing matches. Where-ever these matches were held you find

to-day the finest cultivated farms in Canada. The revival of these insti-tutions, if long delayed, will add matutions, if long delayed, will add mi-terially to the productiveness of the soil of this contry. Thousands of dol-lars were granted in those early day-and in 1911 the Ontario Government placed a small grant of \$250 in the estimates for plowing matches held in the whole Province. It was proposed that the Ontario Government be asked that the Ontario Government be asked that the grant be increased to \$1.000 during the present session of Parlia-ment and that the Dominion Government be requested to give substantial assistance on the basis of the culti-vated acreage in each province, to the different Plowmen's associations. The treasurer's report, submitted by Mr. T. A. Patterson, showed the

February 8, 1912.

ociation to be in a prosperous con dition financially. The constitution was amended and

The constitution was amended and the basis for grants in future will be two-thirds on membership and case third on actual cash expended for prizes; the branch associations to make returns to the central association within five days of the holding of the match accompanied by a sworn statement as to membership and cash prizes paid.

Officers and directors for 1912 ar-Uncers and directors for 1912 ar-thon. Pres., Alex. McGowan and H. H. Pugsley; Pres., Simpson Rennic; lat Vice Pres., Wm. Walkington, King; 2nd Vice Pres., Frank Wci, Agincourt; Treas., T. A. Patterson, Ellesmore; Sec., J. Lockie Wilson, Toronto

Toronto. Directors: A. P. Pollard, Canton: Wm. Walkington. King; A. Warnica. Craigvale: Jas. Hoed, Agineourt; W. A. Dickieson, R. kwood; Walter Put-terson, Stroud; Jas. McLean. Rich-A. Dickieson, R. zwood; Walter Pat terson, Stroud; Jas, McLean, Rich moad Hill; Jas. Speers, Brithanis Frank Weir, Agineourt; T. J. Chis holm, Hornby; Arch. Patterson, Jö lesmere; N. W. Malloy, Toston Simpson Rennie, and J. Lockie Wil son, Toronto.

# Issued Each Wee

Vol. XXXI.

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# European Farr

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Barley .... Oats .....

Potatoes ...

Hay "Henry G. Bel

Soil Improvemen our farmers will of their land.

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"The opinions of turists relative to in yield per acre horst, Royal Agr Gottingen, Germa principal increase uted in part to t tilizers themselves tion with green n tion of the two, th our common light has even increased In general I assur crease in the yield to artificial fertilia

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No. 6

Vol. XXXI.

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FOR WEEK ENDING FEBRUARY 8, 1912

RURAL HOME

FARMAND DAILD

# ANOTHER VIEW OF THE QUESTION "DO COMMERCIAL FERTILIZERS PAY?" R. Innes, B.S.A., Kings Co., N.S.

# European Farmers through Commercial Fertilizers produce much larger Crops than we do. We import 26 times as much Fertilizer now as in 1894. Why? Some points to be considered in purchasing Fertilizer.

O Commercial Fertilizers Pay?" After reading the remarks of Mr. G. E. Cottingham in Farm and Dairy of Jan. 25th under this heading, I was reminded of an article that appeared in the Chicago Live Stock World" the past month entitled, "What Are We Doing ?" which reads as follows :

# WHAT ARE WE DOING?

"Many people have grown rich out of robbing the soil. If the methods of the past prevail many farms that have made money because everything was taken out and nothing put back will point the way of their future owners to the poor farm.

"In Europe where they have been farming all the available land for hundreds of years they are beating us to a frazzle. If they farmed in Europe as carelessly and recklessly as we do they would quickly become bankrupt or starve to death.

"The following comparison of European crop yields with American crop yields tells the story in the most startling manner :

verage per acre	America	Europe
Wheat		35.1
Barley		35.2
Oats		35.9
Potatoes		212.8
Hay	1.44	1 00
"Henry G Boll constant		1.00

. Bell, secretary of the Middle West Soil Improvement Association, points out that our farmers will be compelled to take better care of their land.

YIELDS NOT DUE TO SUPERIOR SOIL

"The reason for the superior yields of European crops over the American cannot be credited to the original superior fertility of European soils, for they have been cultivated for centuries, and within the last century have not only maintained their yield, but their fruitfulness has increased.

"The opinions of prominent European agriculturists relative to the cause of this great increase in yield per acre will be of interest. Von Seelhorst, Royal Agricultural Experiment Station, Gottingen, Germany, says: "I believe that the principal increase of the harvest is to be attributed in part to the application of artificial fertilizers themselves, and in part to their combination with green manures. Through the application of the two, the average yield has doubled on our common light soils. In some cases the yield has even increased two and one-half to three-fold. In general I assume that of the 100 per cent increase in the yield 50 percent. can be attributed to artificial fertilizers.

# AS SEEN IN FRANCE

"The Minister of Agriculture, Paris, France, writes: 'As near as I can determine, the relative importance of the different factors are as follows: In extensive agricultureIncreased use of farm manure and

commercial fertilizers..at least 50 per cent. Better preparation of land ..... 30 per cent. In intensive agriculture-

Effect of preparation of land ......15 to 20 per cent.

Effect of selection of seed....5 to 10 per cent " WHY DO WE DO IT?

When we consider that farmers in the United States in 1910 used nearly \$90,000,000 worth of commercial fertilizers and that in 1894 Canadian farmers imported \$25,000 worth of fertilizers, and



# These are the Boys to Do the Work

these are the buys to bo the twork When it comes to hauling a manure spreader, a two-furrow plow, a disc harrow, or, in fact, aimos' any of the large machinery used on our farms nowadaya the email horse isn't in it with horses of the type here shown. Heavy faritars will soon meet as good a de-dama. Heavy faritars will soon meet as good a de-nate owned by C. H. Watkow, York Co. Ont.

that in 1909 our importations had grown to \$530,-000, there can be no doubt left in the minds of our farmers as to whether it pays or not to use these fertilizers.

If we farmers of Canada would only realize that we must take into consideration the guaranteed analysis of the fertilizers we buy, and not so much the dollars and cents we must pay per ton, there would not be such unsatisfactory results reported as we have in the case of Mr. Cottingham. While I do not infer that Mr. Cottingham has not done this, I fully believe, and it has been amply demonstrated, that if commercial fertilizers are judiciously applied, the results will be entirely satisfactory, and will prove concentrated plant foods to be very economical and profitable for general use. In order to apply them judiciously it requires a careful study of the crop requirements and the natural fertility of the soil. It must always be remembered that the element present in smallest quantities is the one that determines the success or failure of the crop.

As we all know, there are two main classes of commercial fertilizers-those of purely chemical composition and those based on materials of organic origin. There has been considerable discussion as to which is the more economical for us to use. The first class have been extensively used, as they show results immediately. There is a plentiful supply of nitrogen available if nitrate of soda is used up to the time when the plant begins to fruit heavily, but from this point the supply grows rapidly less and disappears entirely long before the fruit matures; that is, when the plant most needs support it is entirely cut off and growth is very slow and poor. In consequence we have small grain, or in the case of fruit a large part of it will fall off. Where, however, other forms, such as blood, tankage or bone fertilizers are used, the readily available nitrate will give the plant a vigorous start, and when it is done the organic fertilizers come right along and give a full supply of nitrogen up to the time of full maturity. This to my mind shows out very clearly that 'animal fertilizers' are as a rule the most reliable and economical for us farmers to 1180

During the past number of years practically all of the fertilizer of this class has necessarily been imported from the United States, but now a few of our large killing houses are placing on the market high grade brands of animal fertilizers manufactured here in Canada.

# TRY IT OURSELVES

The only way to ensure success in the use of commercial fertilizers of any kind is to experiment yourselves. First we must ascertain what food constituent is wanting in our soil and then apply such brands high in this constituent that are recommended by reliable firms for the crop we intend to grow. I believe that if we farmers would obtain some good literature on fertilizers and study it carefully, and also solicit information from fertilizer experts in connection with Experiment Stations and fertilizer firms we would Le much better rewarded than by proceeding according to the directions of a fertilizer agent who may possibly not know the first thing about the practical application of such materials. We always ask these agents for printed informationall up-to-date firms supply them with it

I hope that a number of our most enterprising farmers, men who have used and are using commercial fertilizer, will take up this discussion and favor us through Farm and Dairy with their experiences, as I am sure they might be of great financial value to those readers who have not as yet used these materials.

The cramming machine may be a means to the end in the hands of an expert poultry man, but it would not be a profitable investment for the ordinary farmer. With a crammer, the very highest quality of flesh is obtainable, but it takes an expert to handle the machines .- John I. Brown, Montreal, Que.

# FARMERS AND LABORING MEN---THEIR INTERESTS IDENTICAL

ARTICLE No. 9

## THEN we find the causes which have led 100,000 people to leave the farms of Ontario during the past 10 years, we will have found cliso the causes of the city slums. When we understand why the average farmer on only moderately good land, in spite of the improved farm machinery now in uce, still finds it hard each year to make ends meet, and some years goes behind, we will understand also why the laboring man in the city, in spite of the periodical increases in wages he has obtained through his labor unions and strikes, still often finds it difficult to make a living. These problems all trace back to the same cause. The cause is easily explained,

# A SIMPLE ILLUSTRATION

Suppose an early stage of society in which 100 men are making their living by fishing. At first each man digs his own worms, weaves his own lines, trims his own fishing rods and digs the metals he requires in order that he may make his hooks and trolls. He does everything for himself. For a while they get along nicely. Finally, they discover that because each man is doing everything for himself, they are all doing a lot of needless running around. They, therefore, arrange with five of their number to dig the worms required by the other 95. The 95 continue to fish. It is agreed that the five, as long as they work faithfully, shall receive their full share of all the fish that are caught. This arrangement proves satisfactory, as it is soon found that the 95-through being able to fish more steadily-are catching more fish, than the 100 men were catching before. All, therefore, are pleased. Presently further similar improvements are decided upon. Five more men are appointed to cut fishing rods; five others to dig the metals required for the hooks and trolls. and five others to make the hooks and trolls from the metal after it has been dug, as well as to weave the lines. This leaves only 75 men fishing Still everyone is satisfied. It is realized that because each man is able to work steadily at the one line of work, he is able to do better work than he could if he had to do a little of everything, and that, therefore, the 75 are still catching more fish than the 100 would on the old basis. Finally, however, it is discovered that some men are shirking, It is arranged, therefore, that each man shall use what he produces to buy from the others what he needs. Thus it is soon found that a fishing rod orth a certain number of fish and that a hook and line are worth so many more. Still everyone in patisfied because they know that they are obtaining just what they earn, no more and no less, and that they are free to go back to fishing or to dig worms or to cut fishing rods if they so desire. As all are working there is a community of interest and a freedom from class antagonism.

# THEIR INTERESTS ARE IDENTICAL

That is or should be the position of society. The farmer should see that the workingman in the city who is making him a plow or harrow, a suit of clothes, a pair of boots or anything else that he uses in his home or on the form, is helping him to produce just that much more off his farm by giving him more time to cultivate his land and care for his stock. Were it not for the city working man we farmers would have to undertake so many other lines of work we would have little time left for farming and we would soon go back in condition to the primitive ages. Thus our interests and those of the city working man are identical. Anything that injures them injures us and everything that injures us injures them.

But, unfortunately, that is not the condition of society to-day. If it were, everyone would be obtaining the full reward for their labor and there would be no problem of the city slum or of rural depopulation. Instead, there is another influence at work whose importance we have not fully recognized. It is this:

# HOW THE PUBLIC IS SQUEEZED

Suppose when the first five men stopped fishing in order that they might dig worms they had found that one man had got ahead of them and gained the ownership of all the land around available for the digging of worms. Suppose, also, that this man sat back and told them that they could not dig a spadeful of worms without giving him a certain number of fish? From that time on that one man would have the other 99 practically at his merry. He could exact from them almost what toll he liked. He need never work any more and could grow wealthy while the 99 remained in want.

But that is not all: Suppose that when the second five went to cut the fishing rods they found that another man had gained control of the woodlands and was determined to charge them his own price for every rod they cut; That when the third five went to dig the metals they discovered that still another man had secured a monopoly of all the mines and that he would not let them dig a pound of metal without first paying him his price. We would then have three men who would have the other 97 at their mercy. They need not work although the 97 might slave. They could acquire riches while the 97 found it hard to earn a living.

# HOW THE PUBLIC IS ENSLAVED

That is practically the position of society to-day. We have allowed almost all of our great natural resources, including our timber limits, our mines, and our water powers, to pass under the control of private individuals and companies. We have, also, allowed our great transportation companies, and the land in our trading centres, the cities, to become monopolized in the same manner. In addition, by means of our tariff laws we have given certain people the power to form combines and mergers and thus to control the prices of most of the goods we buy. Our ignorance has been the cause of our enslavement.

# THE FARM LABOR DIFFICULTY EXPLAINED

This is the explanation of the fact that no matter how much we may produce from our farms or how much the laboring man may succeed in having his wages increased, we are neither of us able to keep most of it after we get it. The people who have control of those things we must buy practically dictate to us the prices we must pay thein for them. Thus we no sooner begin to prosper than up goes the prices of things we buy, and a period of hard times soon sets in. This explains also why these other interests are able to pay better wages than the farmer can. They have the power to take the increased wages they pay both out of the farmer and later out of the working man after be gets them. Thus they squeeze both the laboring man and the farmer.

This is why the interests of the laboring man and of the farmer are identical. It explains why they should unite in an effort to bring about an improvement. It explains also how it is that we have millionaires and multi-millionaires on one hand and increasing poverty on the other? Is it not time for us farmers to shake off party polities and to stand together. Our farmers' organizations are doing a great work for us in an effort to right these conditions. At present in Ontario, at least, we are not supporting them as we should.

# Feed Cows Well When Dry

February 8, 1912.

Geo. Coleman, Glengarry Co., Ont.

I often wonder what many of our farmers are thinking about when they allow their dairy cattle to get so badly out of condition in the winter. The excuse usually offered is that they are in summer dairying only and can't afford to feed their cows when they are not giving milk. "Can't afford not to" would be my view of the matter. I plan to have my cows freshen in the spring, as it is only in the spring and summer that I have a market for milk, but the feeding I do is not discontinued in the winter.

How can one expect cows to do well when they go on grass if they have to spend all the first month getting a little flesh on their ribs and storing up a little vigor with which to make milk. And by the time the cows are getting in fair. good condition, the pastures start to Lurn up and the result is the 3,000-pound cow of which we hear so much. It isn't the cow's fault. Under different management she would have produced twice as much milk. I try to have our cows in good condition when they freshen. They then start immediately to pile up a good flow of milk, and come nearer 6,000 than 3,000 lbs. in the factory season.

## THE REQUIREMENTS OF THE CALF

There is another very important reason why we should feed the cow well in winter. It is then that she is developing her calf. This is a great strain on the cow, and she requires lots of nutritious food. Good food is necessary if we are to have strong, healthy calves.

I find that well matured corn ensilage and well aired clover hay, 30 to 40 lbs. of the former and 15 lbs. of the hay, makes a good winter ration for the dairy cow of average size. I feed the ensilage in the morning and follow with the hay when the mangers have been cleaned up. The cows are then left alone till five o'clock in the afternoon, when they are again fed ensilage and their mangers are filled with oat straw. What is not eaten in the morning is thrown back under the cattle for bedding. This feeding is cheap and it serves the purpose well.

### WHEN GRAIN IS FED

As the time for freshening approaches a little ground grain is added to the ration. This helps in the development of a vigorous calf and gives the cow more strength to do her duty as a mother and at the pail.

We hear much of feeding dairy cows when in milk, and the profit is right in our hands. We need to hear more of preparing the cow for the lactation period, when the profits of feeding are nono the less real, but not always so easy to see. My experience has convinced me that the great mistake the most of our dairymen are making is in turning their cows to the straw stack during the winter.

Winter Emmer and Winter Barley. - A comparative test of Winter Emmer and Winter Barley was made throughout Ontario during the past year. The Winter Emmer gave a yield of 3,440 pounds and the Winter Barley of 3,040 pounds per acre. Neither of these grains have as yet become extensively grown as a farm crop in Ontario .- Prof. C. A. Zavitz, O.A.C., Guelph.

All droppings are removed every morning from the henhouse and the floor is swept. Perfect cleanliness and pure air mean good health, no vermin, and lcts of eggs. In one corner of the main part of the house, I have a low box four feet square filled with wood ashes. I add a large spoonful of sulphur each time I bring in a fresh pan of ashes. I spray the nests with coal oil each time the straw is changed .-- Mrs. John Newton, Labelle Co., Que.

# February

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any other pl particularly We believe co respects. Fr the fall till t stabled at ni October 1st. until turned our cows out to leave then any time. The It must not | of a warm si had never bee Our ideal o

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We endeavor We always ha bed liberally. der with our laughed at I ing the dirt off take an ordina downward rub how quickly it we find very u and one the u ordinary hoe the brush, but

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While big reco dairymen should production, and dairyman will no viduality and ca ied, for a cow n cheap milk. Bu the cow will not will then only d

# A Dairyman's Own Methods H. C. Hamill, York Co., Ont.

We can always enjoy our freeide better than any other place when coid weather comes, and particularly when there is a cold rain outside. We believe cows are very much as we are in some respects. From the time the nights turn cool in the fall till the cold weather arrives use cors are stabled at night. From that on, usually about October 1st, our cows are stabled day and uight until turned to pasture in the spring. We let our cows out every fine day, care being taken not to leave them out long enough to be chilled at any time. They are not let out in stormy weather. It must not be forgotten that a cow coming out of a warm stable will chill quicker than if she and never been stabled.

Our ideal of a dairy stable is one that is well lighted, well ventilated, dry and airy without draughts, elean, comfortable and warm without any tendency to stuffiness. We have not yet reached that ideal ourselves but we are working that way. Our stable is not as well lighted as we could wish, and we would prefer at least a infine-foot celling, to leave plenty of air space.

# CLEANLINESS OF IMPORTANCE

We endeavor to keep our cows reasonably clean. We always have an abundance of straw, and we bed liberally. We trim the long hair off the udder with our elippers. At the risk of being laughed at I am going to give our plan of taking the dirt off the cows' hips when necessary. We take an ordinary axe, not too sharp, and with a downward rubbing motion, it is surprising to see how quickly it trims the dirt off. Another tool we find very useful when the hair is coming out and one the use of which the cows enjoy is an ordinary hoe. Of course, this does not supersede the brush, but supplement it.

When our cors are out of the stable they have free access to spring water. We have water basins in the stable. One of the remarkable things about a milk cow is that she will drink at the outside spring until apparently fully satisfied and when tied will sometimes take a drink out of the basin before commencing to eat.

### WHAT WE FEED AND WHEN

We aim to feed and milk at regular hours. In the morning we feed corn ensinge, the grain ration on top of the corn; then clover hay and mangels. Just before dinner the mangers are filed with straw. What the corns leave is used for bedding. In the evening ensinge, meal, clover hay and mangels are again fed. A little salt is put in the ensinge in the manger.

We feed 20 to 25 lbs. ensilage, four to 10 lbs. meal, 15 to 20 lbs. roots and what clover the cows will eat clean to each dow each day. In feeding there are so many conditions to take into consideration that no hard and fast rule can be followed.

## GRAINS GROWN AT HOME

Our grain ration at present is composed of mixed grain, cats and barley, 50 lbs.; whent. 30 lbs.; buckwheat, 20 lbs. All these grains are ground together. Wheat bran is added at the rate of one pound of bran to two of chop. If we had not buckwheat we would add oil cake meal. Some oil cake is added with this mixture, but we aim to feed our cows with the products of the farm as closely as possible. If required, by-products from the local cereal mills are sometimes purchased.

While big records are desired, we believe that dairymen should aim rather to lessen the cost of production, and in the matter of feeding the live dairyman will not overlook this point. The individuality and capacity of the cow must be studied, for a cow must be fed liberally to produce cheap milk. But there is a limit beyond which the cow will not pay for the extra feed, and it will then only do injury. A cow should be fed sufficient when dry to be in good flesh at freahening. If necessary, full grain rations may be profitably fed until about the time the calf is expected.

FARM AND DAIRY

# Stabling For Young Cattle

Prof. Geo. E. Day, O.A.C., Guelph, Ont.

There is one other feature of stabling to which I would like to draw attention, and that is the question of providing special quarters for calves and young cattle. The keeping of calves in a stable that is crowded with other animals is not to be recommended. If there is any disease in the herd, these calves are given every chance to acquire it. Suppose, for example, that there is



# What Better Job Could One Want

There is something about splitting nice straight Maple like this that appeals to all boys and most men. Our editors often look heads with longing to the good old days when they split the Maple wood and enjoyed the best of health, appetite and sleep. Photo taken on farm of Thos. Sallows. Huron Co., Ont.

more or less tuberculosis in the herd, and that our young calves are kept in the same atable with these tubercular animals and are fed upon tubercular milk, what ohance have they to escape the disease? If, on the other hand, they could be kept in a separate shed where they had plenty of fresh air and exercise, they would have a very much better chance of coming through witbout infection.

## IN CASE OF TUBERCULOSIS

If a man had any reason to suspect that there was considerable tuberculoss in his herd, I believe it would pay him to keep his calves in a separate building and to feed them upon sterilized milk, never taking them into the other tarn until they were practically full grown. I believe that by following this method a person could in the course of time practica'ly rid his herd of tuberculosis.

Many people are afraid that calves will suffer if kept in a cold place. Experience, however, goes to show that such is not the case. We are keeping at the present time very young dairy calves in a shed that is simply single boarded, with battens over the cracks and a straw loft above, and these calves thrive as well as any calves the we have and pever seem to suffer any inconvenience. Every winter alvo we keep some of our young cattle in part of the sheep pen, where it is practically as cold as out doors except that the animals are sheltered from the wind. These young cattle thrive better than those which are kept in the warmer shale.

# Criticism on Menure Valuation

J. Eldridge, Bruce Co., Ont.

In answer to question No. 1 submitted by Mr. F. V. Thomson, York Co., Ont., in Farm and Dairy, January 25th (page 11), I herewith give a few extracts from "Bulletin No. 5," by Frank T. Shutt, M.A., Chemist, Dominion Experimental Farms, Ottawa, on Barnyard Manure. This is a book which farmers should read and possess.

"The following table is calculated from liberally fed animals, with sufficient bedding and absorbents to preserve the liquid manure:

Sheep	(value of manure per ton)	\$3.30
Calves	(value of manure per ton)	2.18
Pigs	(value of manure per ton)	3.29
Cows	(value of manure per ton)	2.02
Horses	(value of manure per ton)	2.21

"The bulletin further adds that without perfectly tight concrete floors, litter or alsorbents; careful experiments have shown that the loss in the stable often exceeds that in the manure pile. The use of Gynsum in conjunction with the bedding, even on a cement floor, will fix and retain the volatile ammonia, thus preventing a loss of nitrogen in the stable or the barnyard.

"There is considerable loss by manure piles being exposed to rains and the drainings allowed to run off and escape. Such 'washed' manure is worth but a fraction of its original value. This depreciation before the manure is carted to the fields may, and frequently does, exceed 50 per cent of its value as it came from the stable and barn.

"Protected manure, under sheds, has 10 per cent less organic matter destroyed than exposed manure, that nearly twice as much nitrogen escapes from 'exposed' than from the 'protected' manure and the losses of phosphoric acid and potash, especially the latter, are very considerable from the exposed manure. This experiment with exposed manure was conducted under much better conditions as regards protection from loss by drainage than exist generally upon farms. To emphasize this fact about the exposed manure, it was kept outside in a box or bin that was practically water-tight."

The writer's experience with a manure shed is— Don't leave the manure in piles, as dumped, with the warmth of the stalle in it, but mix and spread six or eight inches deep, then it will cool off and rot with a minimum of loss. If it steams in a few spots, throw a little water on it.

To readers of Farm and Dairy I would say, send for a copy of Bulletin No. 31, Central Experimental Farm. Ottaws.

# Grit for the Chicks

Wm. B. Lynch, Colchester Co., N.S.

Old poultry men would smile at the idea of any one not knowing that hens are minus teeth. Still there are a wast number of people who do not realize that chickens and hens chew their food after it is swallowed; in other words, the food enters the gizzard and is there crunhed or chewed. The fowls are not able to perform this function properly without the aid of grit.

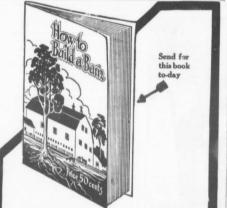
The old hen will manage to get along and try to find grit if neglected. But young chicks are not capable of doing this. The result is if they do not have grit mixed with their food and constantly before them they will sicken and die.

To raise healthy chicks mix one-third grit by weight in their food the first three days; from then until fourteenth day one-sixth by weight. Gradually decrease the amount in food, and he sure to keep constantly before them. Grit should not be too coarse. Following this method I have raised more chicks from one hatch than the average poultry man does.

(5)



study during these wither a visuage our channes. Will beready to the advantage of your channes. All Agricultural books are to be had at lowest at lowest burget **Parm & Dairy, Peterboro**. **BOLL BATTACTURIN CO.** BE 113, WIEDON



# How Would You Build a Barn?

W<sup>11ERE</sup> would you put it? How big should it be? How ought it to be arranged inside? What provi-sion would three be for storing crops? How would manure, for easy is for convenient feeding; for removal of ed-bins? What materials should you was, hay-loft and feed-bins? What materials should you was, hay-loft and toos, for framing, for siding and for roofing? In these how would mon less the hulding on gate to get

In short, how would you plan the building so as to get the greatest possible barn value out of the money and labor invested?

These are a few of the questions you must answer before starting the foundation trench. They're all answered in our handsome free book.

# "How to Build a Barn"

This book contains complete plans and specifications for all varieties of barns. It is written for Canadian weather, and every barn described is designed for Canadian weather, and every barn described is designed for Canadian (ins. expressed so plaint) prepriors aren't just general (them. Dimensions, requirements for materials, method them. Dimensions, requirements for materials, method Crawings show floor plans, front and side elevations and framing details.

The book also describes Galt Steel Shingles—the shingles that are lightest, most easily placed, that do not require painting, are fire-proof, lightning-proof, rain-proof and wind-proof.

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# FARM AND DAIRY

Principles of Ice Storage In order to keep so perishable a commodity as ice it is necessary in the construction of a storage structure to consider carefully those physical and mechanical principles which un-defile its preservation. (1) To keep well, ice must have a minimum of surface exposed to the air or to the packing material. This is most easily accompliable Up piling the ice in the form of a cube. A mass of ice 12 by 10 by 12 foret exposes less surface than the same tonnage piled in any form less nearly that of a globe. (2) The keeping of good ice depends upon the keeping of so it is insulation, where by it is protected from external in-fluences, such as heat and air. (3)

by it is protected from external in-fluences, such as heat and (3) Drainage is important because (3) lack of it interferes with the impla-tion. (4) The ice itself must be public ed ao as to prevent as completely as possible the circulation of air through the mass. The more nearly the mass of ice approaches that of a solid cube, both in shape and texture, the easier, with good drainage and insulation, will be the keeping problem. The keeping of ice, then, depends upon the shape of the mass, its insulation, its drainage, and its solidity.

# **About Pigs**

If the pig is stinted in its food at any stage of its life, it can never be-come a perfect pork producer. A hog can be starved to eat almost anything, but seldom does well on spoiled food.

applied food. When feed may be a set on when feeding mangeds the best method is to feed them whole or pulped. In feeding ittic pigs a lit-tle bit of root thrown in whole seems to attract their attention, and as there is always more or less soil on them the little fellows enjoy nibbling along with and getting a little soil along with and getting a little soil along with and getting the sources to keep them in good had be seems to keep cellent corrective for all digestive troubles. troubles

## Cow Improvement Needed in B.C.

B.C. P. H. More, Dairy Instructor, Victoria, B.C. How are we to improve our dairy cattle in British Columbia? We can-not buy better in the provine, with-out expending large amounts of money. One way would be to rid our herds of all the poorest, then with a sire from stock that we know to be good, we could get a crop of heifers in not too many years that would prove better than their dans. With the same treatment the second generthe same treatment the second generthe same treatment the second gener-ation will be better still. We need not expect to attain perfection or the ideal we are working toward in one year or several, but if we are only gradually grading, it will be more economical than gradually losing, or standing still

conomical than gradually losing, or standing attin the Dominion Govern-ment report for 1910 on owe testing work done in B.C. during 1900, 357 cows were tested, averaging 5,127 pounds of milk and 222.5 pounds of fat. If the milk was sold at the average price of 20 ets. a gallon, these cows would gire an average re-turn of \$102.54. Valuing five pounds stimmilk as equal to one pound of these cover sources the returns of \$102.54. Valuing five pounds skinnnik as equal to one pound of mixed grain would make the akinnnik of a soil is to conduct fertilizer test worth about \$17.42. if fed to hogs, but if fed to dairy heifers, it is worth much more. Add this to the value of the fat at 35 cets a pound and we have a return of \$05.30. This, of course, is the returns of the fat at 35.00. This, of course, is the returns of the pound of the fat at 35.00. This, of course, is the returns of the pound of the fat at 35.00. This, of course, is the returns of the pound o

### February 8, 1012.

FARM MANAGEMENT FINCIPLE STATES AND A STATE

B.C., and are we without this kind in B.C.? I am afraid we are not

# A Point in Tile Drainage

A Point in Tile Drainage We have a springr, sandy field, that it tile drained. Part of the field is on s steep slope of 10 to 15 feet in 100, from which it auddenly changes to two inche-silope are of 10 to 15 feet in 100, from solope are of three-indt hile, and gp the come elogged with sand on the casier grade. How can 1 prevent this?-A. A. H. The state of the state is very springr that while a three-indt hile may be aufficient to carry off the anr-plus water a larger tile would be required on th-essier alope. Even

easier slope. Even then, however, easier then, how there would there danger th. of sand piling up at the change in grade, and there-by rendering the whole system o drains ineffective This can overcome hv in

serting a sand trap such as is shown in the illustration herewith at the between the steep and easy as. The trap can be made ture grades grades. The trap can be made of either brick or coment, and abouid extend one foot deeper than the time should be an inch lower than the in-should be an inch lower than the in-let. In this trap the sand will sink to the bottom and the water will flow on free from and marticles. It will to the Lottom and the water will now on free from sand particles. It will be necessary to clean out the sand at intervals. The top of the trap may be covered with a large flat stone, and may be buried several inches so that may be buried several inches so that the field can be worked over it; or it may extend right to the surface, which plan would be preferable if it would need cleaning frequently.

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# Chemical Analysis of Soils

Licentical Amaysis of Joins Extract from "Artificial Fertilisers, Their Nature and Use," by B. Leadie Emstle, F. C. S., P. A. S. L. C. D. A. At one time it was thought that a chemical analysis of the soil ought to indicate accelle the manufacture

chemical analysis of the soil ought to indicate exactly the manurial re-quirements of that particular, but this theory was very soon upset, when it was observed that certain rich clay soils, which on analysis aboved a very high total potash con-tent, were still benefitic by an arti-ficial application of potash, as proved by the increase in econ production. by the increase in crop production.

Some soils, also, which analyzed high in phosphoric acid, were found to respond readily to an artificial ap-plication of an available phosphatic fertilizer

fortilizer. Now, while a general chemical an alysis will show the total amounts of plant food in the soil, it does not show what proportions are available plane food in the soil, it does not show what proportions are available to the plant, so that the quickest way to find out the manurial requirement of a soil is to conduct fertilizer test-

## February 8

# -----The Fee The Feedern use of our terested are tions, or sen All questions attention

# A Ration

We are planni ing next season. In this section. In this section. In this section. In this section. What grain mixt sults in Nova S well on roots an ish Co., N.S. Manuels to

Mangels, turn take the pla succulence i airy cow. airying mangel carrying mangel root crop, as the does not leave a your section it raise turnips ti small area of t planted to be fe and dry cows. S fine food but us and dry cows. Stine food, but us aufficient to make as mangels. Y however.

# Care of Col

There is a great of many to the farm during often happens the ent shortage of is that colts are s raining a young growth stunted d two.

Most of the co a good start the their lives, from are allowed to suc that time. Earl, with good neuron that time. Early with good pasture have been receiv shared a part of t shared a part of t Such treatment shape for the wint ing must be kept developed and m

BONE AND MUSS BONE AND MUSC The colt's system siderable amount o building material, be had by feeding such as oats, a lit and, if obtainable The feeding of co and, if obtainable, The feeding of con-ticed, is not desiral colt, but had better matured horses. A

colt, but had bette matured horses. A pile will not hurts : it should not be ex-the straw-pile for The question is a do we find so many the county fairs du such poor yearling statement is in p such a condition of

One of the best for on the farm is the farm animals of al farm animals of all colt is no exception. If properly taken ca-right kind of feed three years of life, w to \$100 more who than the one that poorly fed. Good poorly fed. Good always in demand or can only Le supplies where colts receive and treatment.

# Passing T

By the J A post card to the mental Farm, Ottaw, their mailing list a kinds of valuable in

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# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any in-terested are invited to ask ques-tions, or send items of interest. All questions will receive prompt 

# A Ration Without Ensilage

We are planning to start dairy farm-ing next season. Corn does not mature at this section. What erops would you dvise us to grow for succellent feeds? What grain mixture would give best re-alts in Nova Scotla? Will cows milk well on roots and clover how with a li-de home grown grain?-A. B., Antigon-an Co., N.S.

sh Co., N.S. Mangels, turnips or sugar beets will all take the place of eorn in supply-ing succulence in the ration for the dairy cow. As you are going in the airying mangels should be the minu-rof erop, as the feeding of this root does not leave a taint in the milk. In your section it is generally easier to your section it is generally easier to your section it is generally easier to raise turnings than mangels, and a small area of these roots should be planted to be fed to the young stock and dry cows. Sugar beets make very fine food, but usually the yield is not afficient to make them as profitable as mangels. You might try them,

# Care of Colts on the Farm

There is a great tendency on the part of many to neglect the colta on the farm during the winter. It too often happens that there is an appar-ent shortage of feed, and the result is that colts are alighted. One way of ruining a young colt is to have his growth stunted during the first year or two.

Most of the colts on the farm get a good start the first aix months of their lives, from the fact they are allowed to suche the damat they are allowed to suche the damat is that time. Early fall provides they with good pasture and possibly they have been receiving some oats or thared a part of the feed of the mare. Such treatment puts them in good Such treatment puts them in good shape for the winter, but liberal feed-ing must be kept up if a strong, well developed and matured horse is ex-

# BONE AND MUSCLE MAKING FEED

BONE AND MUSCIE MAKING FEED The colve system requires a con-siderable amount of bone and muscle-building material, and this can only be had yeeding nitrogenous feeds, such as year, a little bran, oil meal; and, if yeeding nitrogenous feeds, the feeding of corn, so often prac-ticed, is of the proving oils, but had better be confined to the matured horses. Access to the strawmatured horses. Access to the straw-

natured horses. Access to the straw-pile will not hurk a growing colt, but it shauld not be compelled to rely on the traw-pile for a livelihood. The question is often asked : Why the county fairs during the fail, and such poor yearlings? The foregoing statement is in part explanatory of such a condition of affairs.

One of the hest forms of investment on the farm inche liberal feeding of farm animalische liberal feeding of the second second second second second right kind of feed during far far far three years of life, will bring from \$75 to \$100 more when three years old than the one that is neglected and party fed. Good young horses are party fed. Good young horses are and only desaudic from the farms where colts receive the proper care e colts receive the proper care and treatment.

Good feeding consists in feeding Good feeding consists in feeding dairy animals a certain amount what a right balance of protein and can-bohydrates and fat. The most car-cessful feeder is the one who gots the right balance with the least expendi-ture. How about alfalfa and corn en-silage?

The wise man learns by the exper-nce of others. Personal experience ience of others. tence of others. Personal experience is too slow a teacher in this progres-sive age. That's where the farm paper shines. It puts you next the best experience of the Lest farmers.

best experience of the best farmers. There may be registered cows in the dairy breeds that don't pay their board. But the percentage is low as compared with the poor cows in grade herds.

Instead of moving to the city, why Instead of moving to the city, why not transport city conveniences to the country. Moving presences would instal a fully counterpresence of the biscontent of the right variety is a fine thing. Content is stagmation. Are we satisfied with our mongreni cose, our poor crops? We hope not. However, in a value of the right is a value of the thing.

we satisfied with our mongrei cows, our poor crops? We hope not. Highway improvements a subject of vital irrerest to farm by farticu-larly the nighway from the farticu-tien earest town or shipping arm to the nearest town or shipping arm to for automobilist. But then we pay the bills and will insist first on the roads that we need.

To the two seconds that we need. How do you like the articles on tax-ation now appearing in Farm and Dairy? Write and give us your opinions on the subject of taxation.

# About Dehorning Dairy Cattle

About Denorming Dairy Cattle O. E. Read, Kansas Agr. Col. The reason often given for not de-borning dairy cowa is that it will cause them to fall off in their milk flow. If the cows are properly cared for after they are dehorned, they will soon recover from the shock of dehorn-ing, and the decrease in milk flow will not be apparent as is often thought.

will not be apparent as is often thought.
 will not be apparent as is often it hought.
 Twolve cows in the herd at the Kansas State Agricultural College were recently dehormed and a record of the milk production for the lorent make the before and after a cache cow was kept before and after a cache cow the state production for the lorent file total production for the lorent period of five days after dehorning was 1,100.7 lbs. of milk. The total total production of the 12 cows for ac-ting the above period was 40.8 lbs. The total production for last of the cows made more and pint. Two of the cows after dehorning the did the dehorn-ing. On the fifth days after dehorn-ing. all except two confer dehorn-ing. all except two confer dehorn-ing, all except two confer dehorn-ing. Two wermos pescensmo Two METHOS DESCHOR as a signal Two METHOS DESCHOR as a signal Two METHOS DESCHOR as a signal The best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the best time to dehorn an avient of the the signal the total the time total the signal the signal the signal the the signal the sign

lore tney were denormed. Two METHODS DESCRIMED The best time to dehorn an animal is when it is only a few days old by using caustic potaah. After the horse have made a fair growth they can best be cut off with the saw or clip-ter the animal should be fastened securely in a position where the op-erator and the horns. The best media clip and the horns will grow out again. The ding a ring of skin and hair. The base of the horn that is amputated should show a ring of hair.

As soon as the horn is cut off, some disinfectant should be used on the coal tar dipart of the central Experi-their mailing tist and tring you and kinds of valuable information.



If you are using a plank and a wheel barrow as the means of carrying the stable manure to the pile, the picture above shows you how you might do it.

Isn't it easy? A boy can do it with a **BT** Litter Carrier and never turn a hair. He'll make a quicker, cleaner job of it too. Four big barrow loads every time.

# It's Done Better

It's done better with a BT Litter Carrier because there is a big wide mouthed bucket lowered right down to the floor into which you throw the manure. It is water tight. With a wheel-barrow some of the refuse falls off while you are loading and some more falls off on the trip to the pile. You can't help it.

# Where It Pays

The boy doing the work of a man money. Improved cleanliness of the yard and the ter con-ditions all around. You get the manure well may from the barn, so that it is not rotting out the sides and sills of the barn and injuring the health of the animals with the ammonia fumes constantly pouring off the manure pile. Our Catalog Will Interest You BEATTY BROS.

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# FARM AND DAIRY

(8)

RELIABILITY

BAKE

# FARM AND DAIRY



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* HORTICULTURE 

Something That Pays Well J. W. Clarke, Brant Co., Ont.

I do not know of anything that will pay better than a good orchard. bought a place some years ago of which was a good sized orchard. It had been neglected and 100 barrels annually was considered a good crop. I decided that I could make that or-chard pay a great deal better than it had ever done before. To take an old, neglected orchard and bring it up to a profitable productive condi-tion is a lot of work and is not all done in one year. I have spent five or six years on mine and it is not ideal vet.

# A FIRST ESSENTIAL

Pruning is one of the first essen-tials to renovating an old orchard. I prune any time that the saw is sharp. I do not recommend cutting off large limbs, particularly in the fall. Neither is getting up in the tree and cutting

is getting up in the tree and cutting off all you can reach, pruning. Start at the outside first. I have a ladder on wheels and from this we work around the outside of the tree. Pruning from the inside gives a strag-Franing from two inside gives a strag-gling, weak tree, and there is a large space in the centre , hich is not pro-ductive. By using the ladder and a pair of pruning shears and saw, the work is easier than thinning with the hear with a long headle standle grandling on shears with a long handle standing on the ground

THE OBJECT OF PRUNING

We aim to prune and thin the trees We aim to prune and thin the trans-so as to distribute the fruit equally in all parts. By letting the sun in, we have just as many apples and they are of a better color. Sun-scald on are of a better color. Sun-scald on the larger limbs is avoided by getting the tree so thin that the sun can shine on all parts in all seasons. There is a danger if the pruning is

scald and a large growth of suckers will result. In going over my orchard, I take two or three years to thin out the top.

DON'T LEAVE ORCHARD IN SOD

It is not wise to leave the orchard It is not wise to leave the orenard in sod. Thorough cultivation should be practised, as this is the only meth-od which we have of conserving the water for the use of the fruit. The importance of water for the growth of a good ample grom is evident when a good apple crop is evident when we know that 90 per cent. of the ap-ple is water. We should commence ple is water. We should commence cultivating early in the spring and cultivate regularly until the first of July

COVER CROPS AND THE PURPOSE About the first of July I sow cover crops. Were cultivation kept up throughout the entire season, the color of the fruit would be inferior, fruit buds would not form so abundantly for next year's crop, and the wood would not be ripened sufficiently to withstand the frosts of winter. A cover crop sown about this time by robbing the fruit of moisture and plant food matures the fruit and wood

and induces a good formation of fruit HAIRY VETCH A GOOD COVER CROP

Luds

I have found that hairy vetch is one of the best leguminous cover crops to grow. It has a large growth and is a good blanket and apples falling on this blanket do not bruise. In

does not ripen it properly. In a case like this, rye or buckwheat can be used to advantage as a cover crop Buckwheat is particularly desirable especially where poultry run in the orchard, but it does not make much of a blanket

February 8, 1912.

# Apple Possibilities of N. B.

J. R. Dykeman, Queen's Co., N.B. When attending our apple show held in St. John, October 30 to Nov-ember 2, 1911, I was more than imember 2, 1911, I was more than im-pressed with the great possibilities for topic growing in New Brunswick. For flavor and color I believe our fruit will equal, if not surpass, that of any other province of Canada. I am a beginner in apple culture, I have about 200 trees and corner to

I am a beginner in apple culture. I I am a beginner in apple culture. I have about 200 trees, and expect to increase this number to 1,000. We find that such varieties as Wealthy, Fameuse, Dudley, Bishop Pippin and McIntosh Red are our best varieties.

# Just the Paper to Have

I have taken Farm and Dairy I have taken Farm and Dairy for several years and nots the great improvenent you have made in it. It is just the paper every farme: should have. The weekly market report alone is worth what you ask for the pa-per.-G. W. Cennell, Wood-stock, N.B.

I have a nice lot of St. Lawrence trees that bear well and yield beauti-ful fruit that finds a ready sale in our local market as a fall variety.

ABOUT ORCHARD METHOD

ABOUT ORCLARD METHODS In setting out young trees I try to have my land in as good ahape as I would for a crop of potaces. I plant my trees 30 feet apart each way. If the land is dry I put water in the holes when about half full of earth. I previous year is ees about half of the previous year is the set of the set of I apply manure twice a prostant for that appraving is year important for that spraying is very important for producing perfect fruit. I enjoy horticultural work, and

and take a great interest in it. I would take a great interest in it. I would not advise any one to engage in this work that does not like it, as he will not then make a success of fruit growing. We feel very proud of the noble way that our provincial government is assisting us in this industry.

# Wild vs. Cultivated Fruit

E. F. Eaton, Colchester Co., N.S. Getting out the two-horse team and starting out with the whole family berry picking may be all right for a picnic occasionally, but from a purely business standpoint we prefer purely Dusiness standpoint we prefer to grow our own fruit at home and take our picnios in some more enjoy-able way than trailing over a rough "berry barne." A few hours work a year will keep a good sized fruit gar-den in shape. Raspherries, black-berries, currants, gooseberries and strawherries can all be had in abund-some forward. ance for an average sized family from a few square rods of land. I am sure that we can pick as many straw-berries in five minutes from our garden as we could get of wild ones in an hour, and we do not have to go far for them either. And the same true of raspberries

I would not attempt to gainsay the in the country that wild fruit is far superior to much that may be grown to grow. It has a large growth and is a good blanket and apples falling fact, apples of the small hardy vari-eties can be shaken from the trees and then picked, which they and then picked, which results in a out much injury resulting. If the land is manured slightly and a sapply of the regeting too large a supply of nitrogen and as a result required to keep the patch in shape we get too much wood growth, which

# February 8

# 10000000000 POUL -----Pleased w

E. J. Northco Our poultry general plan in place of rectan by 24 feet. It d on the north but open to the o the ground, on screens ar open space duri extremely cold divided into pe having a front

We have fou that it is diffic house dry and thealth. Many s health. Many s pen, but we have cold one with its keeps the hen plumage bright. rom hens in the fortile and we of them. Our 191 ing in early Oc laying all winter

# How I Feed Kenneth Pentle

We always ain eding. Practifeeding. Practi-mon grains can ge in feedin mixture of gra litter, one qui noon we feed wheat and 00 the constituer varied from oultry for find sprouted oat feed, one bushel costing us about one quart of grain litter for each 25

# A MEDICAL P FREE 1

Every person inter-breeder or in a com-"Zenoleum Chicken in a breeder or in a com-"Zenoleum Chicken in the treatment of all polity, and the pro-sol information of the selic, miles and cases roug, pipt, international selection of the selic or risk of the selic or risk of the flock in the deck in the flock in the break of the break of the selicity of the break of the college at Ghelph, we have break of the break of the college at Ghelph, we have break of the break of the college at Chelph and the college

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# -------POULTRY YARD Pleased with Open House

Pleased with Open House 1. J. Northeott, Ontario Co., Ont. Our poultry house versions from the pace of rectangular. It is 24 fore, y 24 feet. It is thoroughly protect of the Committee on Legislation as the set of the States with the cold apring weather to changed every month. The FIGHT FOR WIDER MARKETS TO CONTINUE The United States; whereas, out to the ground the house. We set on the cold apring weather to changed every month. The FIGHT FOR WIDER MARKETS TO CONTINUE The United States; whereas, out to the ground the house it is in the set of the cold apring weather to changed every month. The FIGHT FOR WIDER MARKETS TO CONTINUE The United States; whereas, out to the ground the house it is in the set of the cold apring weather to changed every month. The State set of the cold apring weather to the set of the the set of the the set of the the set of the the set of the set of the set of the set of

health. Many shill hold to the warm pen, but we have come to prefer a cold one with its dry, fresh air, which keeps the hean bealthy and their plumage bright. We believe the eggs from heans in the cold house are more ortile and we cortainly get more of from hens in and we cortainly get more of them. Our 1911 pullets started lay-ing in early October and have been ing in early Octo

How I Feed Winter Layers Kenneth Pentland, Peterboro Co., Ont.

Armeth remains, reservoro Uo., Out. We always mit to have variety in feeding. Practically all of our com-mon grains can be used to good ad-vantage in feeding poultry. We feed a mixture of grain once a day in the litter, one quar to 25 hens. At moon we feed a mash of bran, buck-wheat and com. The proportions of the constituence used in this mash are varied from me to time. Mangels and eable are hung up in the poultry doe for green feed. We find spreaded data an excellent green feed, one buble of the green feed consign us about 16 cts. At night one quart of grain is again fed in the litter for each 20 hens.

# A MEDICAL POULTRY BOOK FREE TO YOU

Chicken Chat" is free to every Farm d Dairy reader. A cent spent for a tal card will return you a profit of ay dollars. Address, Zenner Disinfreet-loomaany, 218 Sandwich St., Windsor, lario, before you forget it.

Cleanliness and freedom from ver-min are very important points in getting eggs in invite. The dropping boards in our winter. The dropping boards in very start was and and day and aand sprinkled on them. Twice a week, on Weck and the Saturday, the perches are sprind with Zenoleum. Twice a year, in spring and fall, we whitewaah the interior of the house. We dust our heas with insect powder three times during the winter. The litter is changed every month. Cleanliness and freedom from ver-

The most profitable eggs to produces are in the early spring, when we can sell them for hatching. We intend to make our money as fanceirs. We showed at the Poterboro Fall Fair last fall and got two firsts and two seconds. By building up a reputa-sion of the second second second second get a first provide the for eggs which will make it all the for eggs which will make it all the solutions for eggs while to be able to produce the out eggs in the cold spring weather for early latching purposes. The most profitable eggs to produce

"the United States; whereas, out of "total exports of \$274,000,009, \$104." "115,000 went to the United States, "and all this in spite of the high av-

"and an this in spite of the high av-"erage customs duties, it becomes "very evident that the improvement "of trade relations between Canada "and her southern neighbour is, and

THE DISCUSSION In the discussion of the reasons for defeat of Reciprocity, some out-ken statements were made. Mr.

pelled to take a neutral stand. Thous ands of copies of Conservative papers

were circulated through the riding.

me being sent to every elector.

some being sent to every elector. If addition, ten speakers with automo-biles were kept constantly in the rid-ing for several days before the elec-tion holding five meetings and deliv-ering twenty addresses every day. "No wonder," said Mr. Glenninns, "that Becipropits was detendininns,

'that Reciprocity was defeated when

paign was made against it by the fi-nancial interests. I heard one man

an a train say that they had simply taken the old flag and shooed the farmers into voting the way they

OUR OWN MONEY DEFEATED US

(Concluded on page 10)

such a thoroughly organized

wanted them to.



The Steward of the Grange John Newman, Crystal Rock, Ont., newly elected steward of the Dothe minion Grange

presented at the recent meeting of the Dominion Grange held in 'l oronto. The sentence was typical of the feeiing of the farmers present as was shown by the fact that they not only adopted the report of the committee but passed the resolution published in last week's issue of Farm and Dairy calling on the Dominion Grange to break down the artificial barriers which impede freedom of commerce between the two countries and pre-vent Ontario farmers especially from marketing their produce in the most profitable markets.

Naturally, the results of the re-cent Dominion elections and the failure of many Ontario farmers to stand with their farm organizations, came in for considerable discussion. The opinion was freely expressed that the opinion was needy expressed that the question of wider markets had not been settled on its merits. In this connection the report of the Commit-tee on Legislation went on to say : "The late Dominion election was id-tion senses a fair referendum upon the

no sense a fair referendum upon the "single issue of Reciprocity with the "United States. Numerous other is-"sues were mingled with it, and the bitterness of the party fight led to such distortion and misrepresenta-"such distortion and misrepresenta-"tion, such an extensive importation "of alien questions and such appeals to international prejudice, that any "fair submission of the one question "became impossible. In addition to "those considerations there is the very important fact that, even upon the assumption that the election was a <sup>11</sup>assumption that the election was a "referendum upon Reciprocity, 628,006 "electors voted for it, while caly 669... "9577 voted against it. Surely not a "sufficient blow to even stun Reciproc... "When, out of a total of \$462,009... "Work of its of a character of \$462,009... "666cl ward, 295,000.000 camp. from the call of \$462,009...

"fiscal year, \$285,000,000 came from

of

Build Silos, Dwelling. anyclass of building from Generete Block. The Lon-don Adjustable Concrete Block Machine makes every kind and size of block. High grade. Moderate price. We manufacture a full line of Concrete Machinery. Tell us your re-

LONDON CONCRETE MACHINERY CO. Dept. B., London, Ont.

# **Barred Plymouth Rocks**

When you buy eggs from me you must consider there are ten years of careful breeding of the best blood in Canada at the back of them.

F. H. Lummis, Swastika Ranch

WYEBRIDGE, ONTARIO

# **GOVERNMENT STANDARD SEEDS FOR SALE**

GUVENMENT STATUARD SEEDS FOR OWNER Afraita \$11.00, Red Clover \$14.00, Abits \$1.00, Through Status \$1.00, Through Status \$1.00, Chord Status \$1.00,

THE CALEDONIA MILLING CO., LTD., CALEDONIA, ONT.

Well DRILLING Over 70 sizes And styles, for drilling either deep or shallow wells is any kind of oil or rock. Mounted on wheels or on sile. With angines or horse powers. Strong, simple and durable. Any mech-anic can operate them seally. dend for catalog. WILLIAMS BROS., ITHACA, N.Y.

# FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER

INCUBATOR-120 Eggs, and Broder (Peerless); new last season; will sell the two for \$25.00; cost \$40.00; can be seen. -J. W. Todd, Millbrook, Ont.

FOR SALE-Iron pipe, Pullays, Heiting, Rails, Ohain Wire Fencing, Iron Posts, etc., all sizes, very charge Sand for list, stating what you want. The imperial Waste and Metal Co., Dept. F.D., Queen street, Montreal.

BARGAIN Space in this Classified Column only 2 cents a word, cash with order, will take your message to nearly 15,000 possible buyers. Send in your ad. to-day. -Farm and Dairy, Feterboro, Ont.

O. A. C. No. 21 **Choice Seed Barley** SI.10 PER BUSHEL

Bags 25c each extra. Money must accompany order.

# J. J. Parsons Jarvis, Ont. SEED OATS AND BARLEY

OCR OWN MOREY DEPRIVED US "We were debauched by our own money," said Mr. James McEwing-ex-M.L.A., of Wellington Co. "The big interests fich our money "The us by means of the protective tariff and then use this money to disorgan-ize us, and thereizy lead many farmers, to wore against their best interests." Siberian oats (test 35 lbs. or over), per bushel. No. 21 barley, \$1.25 per bus el. Clean, Pure stock from selected se Also Empire State and Early Purit Porteces

A. HUTCHINSON, MOUNT FOREST, ONT. Member C.F.G.A.



In

(9) 10 137

Desirable Farm for Sale Desirable 'Farm for Sale 100 acres, 55 miles from Wattort, 65 acres gravel and small, balance elay foun. Soil will adopted for fruit growing. Too the state back, plonty of apring water. Charches back, plonty of apring water. Charches and R.P.D. Reasons for selling. U backb. For further particulars, write, JOSEPH KELLE, WAITORD, OHT., - LANGTON COUNTY

55 Head of Holsteins 55

February 13, 1912

25 Registered Cows and Heifers

With Records from 19.12 lbs. Butter in 7 days

Lad, whose three nearest dams average 27.06

Five Young Bulls, fit for service, all sired by

30 High Class Holstein Grades

With milk records from 5000 to 9000 lbs.

milk in ten months will also be sold. A rare

chan get the good cattle you want. See Gossip

All Trains met at Elgin Station on day of Sale

Terms Cash, or Approved Notes with Interest at 6 %

WM. C. STEVENS,

PHILIPSVILLE, ONT.

above bull, and out of officially tested dams.

All are in calf to or are by Pietje Korndyke

This great bull is also for sale, together with

as three-year-olds to 24.45 as aged cows.

lhs. Butter in seven days.

Column for further particulars.

Auctioneer

D. C. HEALY.

AT ONE O'CLOCK

# FARM AND DAIRY

# Professor Zavitz's Fertilizer Experiments

Editor, Farm and Dairy, --- The cri-ticism of Professor Zavitz's fertilizer experiments made by Mr. Thompson in Farm and Dairy, January 25th, is well taken. No attention has evident-FARM DAIRYING A Reve Bock by Price only Sis postpad. Over through ing soil fertility. Furthermore, I BeekDept, FARM AND DAIRY, Peterbero, Oat. ly been paid to the principles under-lying soil fertility. Furthermore, I might add that I believe that any com-

**Bv** Auction

At My Farm

One Mile East of

Philipsville, Ont.

Leeds Co.

Professor Zavitz calls his complete cherwise might have obtained for it. fertilizer, and barnyard manure, Mr. I. R. Lindsey, of Georgetown, would be grossly misleading. Consider for a minute the relative

ctherwise might have obtained for it. Mr. J. R. Lindsey, of Georgetown, was afraid that the bulk of the farm-ers of Ontario will never be educated to stand together until they have been starved to death. Consider for a minute the relative amounts of nitrogen in one-third of 160 lbs. nitrate of soda and 20 tons of barnyard manure! Nitrate of soda barnyard manure! contains 15 per cent of nitrogen, therefore one-third of 160 lbs. nitrate PARTY POLITICS TO BLAME "The whole trouble with the farm-ers," said W. L. Gordon, of Elora, "is party politics. If keeps us hew-ers of wood and drawers of water, whereas we should be leaders." Mr. E. Mason of Camilachie, said therefore one-third of 160 lbs. nitrate of soda or 52 lbs. would contain 7.8 lbs. of nitrogen. Now a ton of aver-age barnyard manure would probably contain from 10 to 12 lbs. of nitrogen, about the same amount of potash and

4 to 6 lbs. of phosphates. Therefore 20 tons of farmyard man-ure will contain 200 to 240 lbs. nitrogen, about the same amount of potash and about half this amount of phosphatos

phates. Muriate of potash contains from 52 to 58 lbs. of potash in the 100 lbs., therefore one-third of 160, or 52 lbs., will contain about 27 or 28 lbs. of po-

Superphosphate contains about 13 to 16 per cent of phosphoric acid, therefore one-third of 320 or 107 lbs. will contain 16 lbs. P2O5 or phosphorie acid.

Draw your own conclusions from the comparison of the following figures :

COMPLETE FERTILIZER 

20 TONS BARNYARD MANURE

200 to 240 lbs. N. 200 to 240 lbs. K. 80 to 120 lbs. P.O.

I think Mr. Thompson asks some very pertinent questions which it would be well if Mr. Zavitz would answer if he can do so .- "Experiment-er," Ontario.

# The Fight for Wider Markets to Continue

(Continued from page 9) "We were defeated," said M. J. G. Lethbridge, of Alliance, "because the forces opposing us had unlimited capital with which to educate the public to suit their views. We lost be-cause we did not have the funds to enable us to carry on an educational ampaign.

STILL PLENTY OF FIRE

STILL PLENT OF FIRE "Instead of taking the fire out of us," said S. C. Smale, of Oakdale, "the recent election has only put it" into us. Our grange is growing stronger as men who have not been identified with us for years are now coming out to our meetings. The de-feat of reciprocity was engineered here in Toronto where there is a clique of financial men who would wine the grange out of existence with wipe the grange out of existence with pleasure if they could."

Mr. Smale told of a man in his sec-Mr. Smale told of a man in his sec-ion who when teased over having dom there can be no true independ voted for reciprocity asked the men ence. So it is that women entering who were taunting him when they the industrial world of agriculture be were going to pay him the \$500 they come self-reliant and a factor of im owed him as by defeating reciprocity portance in the working day world they had compelled him to sell 100 of to-day-. (Dr. Annie L. Backus, tons of hay for \$6 a ton less than he Elgin Co., Ont.

February 8, 1014

PARTY POLITICS TO BLAME

Wm. McCrae, Guelph, Ont.

that although the Canadian Manufac-

that although the Canadian Manufac-turers' Association had only some 2, 615 members it holds the balance of power, and is dictating the arrange-ments connected with the appoint-ment of the tariif commission, on which he thought the farmers should be represented.

Upon the completion of the discus-

Upon the completion of the discus-sion a committee was appointed, con-sisting of James McEwing, Col. Fras-er, of Brantford, E. C. Drury, of Crown Hill, and W. L. Gordon, and instructed to place the views of the grange before the tariff commission.

It was decided to ask the Canadian Council of Agriculture to take sim-ilar action and to ask the local

granges to have representatives wait on the commission should it visit

The economic position of women has been the greatest detriment in the

has been the greatest detriment in the development of women. Every hu-man being who is a dependent upon another fails in reaching that perfec-tion of character which independence

tion of character which independence assures, and without financial free-dom there can be no true independ ence. So it is that women entering the industrial world of agriculture be come self-reliant and a factor of im

their vicinity.

The

assistant steward of the Dominion Grange.

# Februar

# PUB

Already ngratulate lonco and lpfulness ( out last we our people a that they fo ost but of est, but of value, which each issue o

New subsc in to us in ner. Renew: most Scarcely any taking Farm more care to There are a to want a dain are glad to b

A person p the inside fa publish a pap would scarcel it would be ing. It costs to get out F subscriber fo scriber pays per. Were it revenue we w get someone financial oblig

Whenever which you had Farm and Da to write the allow question whatsoever ki of all our ad their reliabilit fully when yo tisers and en "I saw your and Dairy." thoughtfulness this point wh tisore

Again we w tion to the ar either in cash, very real and return for yo seeing a few neighbors and scribe to this ing and worth

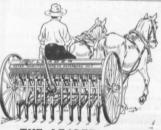
We are hard Big Special and Garden March March 7th. Than Ever" i Special Magazi that you will n that our Orcha al will be suc friends and net appreciate

Our Le

SPEED OF AU spleb OF AU: maximum legal s country roads? give us half the ; to stop if we sh the law in this c ton Co., Ont. The maximum

on country road is 15 miles an should turn out in passing a can nalled to do so vehicle must sto

ARTESIAN WE bor sunk a gas tapped a stream depleted the flow



THE LEADER

Now-a-Days Every Farmer Demands a Drill in Which the Feed is Driven From Both Wheels

To obtain this most manufacturers have changed the construction of their Drills, and made the main axle revolve. This is a fatal mistake. A stationary axle fastened to the frame helps to make the Drill rigid and strong, and of light deaft. A Revolving Axle makes a heavy, cum-bersome Drill, with exceedingly heavy draft. REVOLVING SHAFT,



See how we overcome this difficulty. By going to the additional expense of adding a second shaft running the full length of the machine parallel to the main axle. Results-Easiest Draft Drill in Canada; Frame Rigid and Gears kept in perfect mesh, giv-ing perfect sowing; fewer parts to wear out or get out of adjustment; many other exclusive good features. **See our Agent about them.** 

The Peter Hamilton Co., Limited Peterborough Ontario

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# PUBLISHERS' DESK

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Already we have received several congratulatory remarks on the excel-ence and the abundant practical helpfulness of our Big Poultry Annual helpfulness of our Big Poultry Annual out last week. We are pleased that our people approved of the effort, and that they found it not only of inter-est, but of practical dollars-and-cents value, which is what we try to make each issue of Farm and Dairy.

New subscriptions continue to come in to us in a most gratifying man-ner. Renewals also are being received in most satisfactory percentage. Scarcely any of our people now after taking Farm and Dairy for a year or more care to do without this paper. more care to do without this paper. There are a few, of course, who do not want a dairy paper, and these we are glad to be without.

A person not in standard was a A person not in standard what it costs to publish a paper like Farm and Dairy sould scarcely believe the possible that it would be such a sought believe the ing. It costs us approximately state ing the second state of the second scale of the subscripts of the second scale of the second subscripts of the second scale of the second scale of the second scale of the second scale of the scale of the second scale of the second scale of the second scale scale of the second scale of the to get out Farm and Dairy for each subscriber for one year. That sub-scriber pays us only \$1.00 for his pa-per. Were it not for the advertising revenue we would soon be required to get someone else to undertake our get someone ense financial obligations.

Whenever you see a thing, for which you have need, advertised in Farm and Dairy, it will pay you well to write the advertiser. We do not allow questionable advertisers of whatsoever kind to use the columns to be the set of the set whatsoever kind to use the columns of Farm and Dairy and we stand back of all our advertisers and vouch for of all our advertisers and vouch for their reliability. It helps us wonder-fully when you buy from our adver-tisers and enquire of them, saying, "I saw your advertisement in Farm and Dairy." We will appreciate your thoughtfulness for us by remembering this point when writing to adver-

Again we would draw your atten-tion to the ample rowards we offer, either in each considerable value, in very real and considerable value, in seeing a few grout fined and neighbors and the sub-scribe to this clean, helpful, interest-ing and worth while farm paper.

We are hard at work on our next Big Special Number-our Orchard and Garden Number-to be out March 7th. "Bigger and Better Than Ever" is our motio for these Special Magazines. We can promise Special Magazines. We can promised that you will not be disappointed and that you will not be disappointed and that our Orchard and Garden Annu-al will be such that you and your friends and neighbors will thoroughly

# **Our Legal Adviser**

SPEED OF AUTOMOBILES .- What is the SFEED OF AUTOMOBILES.-What is the maximum legal speed of an automobile on country roads? Are they supposed to give us half the road? Are they supposed to stop if we signal them to? What is the law in this connection?-E.H.B., Hal-

the law in this connection?-E.H.B., Hal-ton Oc. Ont. The maximum legal rate of speed on country roads for motor vehicles is 15 miles an hour. An autombile should turn out like any otherwhicle in passing a carriage. On being sig-nalled to do so the driver of a motor vehicle must stop.

ARTESIAN WELL SPOILED.-A neigh-bor sunk a gas well on his farm and upped a stream of water. This has depleted the flow into my artesian well.

Have I any redress? The loss could be prevented at little expense.-J. W., Wel-land Co., Ont.

Your neighbor has a right to dig as deeply on his land as he wishes, and if in so doing he interferes with the whiteramonome for interforme with the piled your well, he is quite within his rights. If, as you say, the waste could be stopped at very little ex-pense, our strongly advised to make the necessary overtures to have this dore, for as your injury has re-sulted from a legitimate use of his own land your neighbor has incurred no legal liability to you for the damages occasioned. subterraneous flow of water which sup-

# Our Veterinary Adviser

FOUL IN FEET-The cloft of one of my cors hind free became nore and filled for pue so that also would not put the top pue so that also would not put the some days and then applied Dr. Porter's Antiaspite Healing OIL which was recom-mended me by the druggist. It seemed to get better, but also became tender on the other than the second tender on the new third foot, although there is noth-ing foot free attempts ago, on rescan-ting foot free attempts ago, on rescan-tering foot free attempts ago from deroner. I to this off, disinfected and applied oil as before. She has dropped from five to the a hind gallong of milk a day. -the second free attempts ago from the foot. This is caused by standing in the Foot. It is caused by standing in or walking

It is caused by standing in or walking through irritating matter as filth, liquid manure, wet ground rushes and nquid manure, wet ground rushes and so forth. Stand in a perfectly dry place, remove both solid and liquid manure frequently. Thoroughly cleanse between the clouts and apply warm linseed meal poultices until soreness disappears. Then keep dry soreness disappears. I nen keep dry and dress three times daily until healed with one part carbolic acid to 30 parts sweet oil. If raw flesh be present apply butter of antimony with a feather once daily until it disappears.

LYMPHANGITIS-Drying mare was standing talls in stable. One moming her right hind lay was worked to pre-sure. We diagnosed it as a case of ym-phangitis. Put her in hos stall. Gave pengalent, folwed sathgert and iodie of water, m, bathed frequently with hot water, m, bathed frequently with hot water. The lay and the sate of the water is a state of the source of the water is a state of the source of the source discharging matter on each side how hock, but the sores are slow to heal. -W. L. H.

W. L. H. Your diagnosis and treatment were correct. Eruptions following lym-phangitis are not common, but occasionally appear. Feed lightly on lax-ative food. Wash the sores off well with a five per cent solution of car-bolic acid twice daily and apply a dry descing of the solution of carbole acid twice daily and apply a dry dressing of three parts boracic acid and one part iodoform, four or five times daily. It is possible a chronic

enlargement of leg from hock to fetenlargement of log from hock to fet-lock may remain. If so, frequent hand-rubbing and bandaging when in the stable and the administration of one dram iodide of potassium three times daily will tend to reduce it.

# **Oueries** About Ensilage

Queries About Ensinge How much ensinge is there in the 10 feet at the bottom of a sile, 10 y2 feet, that was flied full has faily well this singe worth a foot when hay is sell-ing at \$2 at on? The core was failed well eared, but not very hard.-A. K., Norfolk For Det

a silo 28 ft. deep the average In a sito 28 ft deep the average weight of the ensilage in the bottom 10 ft. would be about 51 hs, per cubic foot. In a circular silo 10 ft. in dia-meter there are 785 cubic ft., which space would contain about 20 tons of

When hay is \$12 a ton. onsilano will be worth approximately \$3 a ton, or \$6 a foot in the silo.



And Intending Breeders OF THE FAVORITE

Holstein Cattle

will find it greatly to their advantage to attend the FIRST ANNUAL NORTH TORONTO BREEDERS' CONSIGNMENT SALE 90 RICHLY BRED REGISTERED HOLSTEINS, also 20 Grade Cows of Good Holstein Breeding.

On FRIDAY, FEBRUARY 9th, 1912, the Day after the Annual Meeting in Toronto of the HOLSTEIN BREEDERS' ASSOCIATION. These richly bred cattle have records up to 26 lbs. Butter in 7 days. They will be sold at Public Auction at RIVER VALLEY FARM, North Toronto, in Mr. Jos.

Kilgeor's large horse training areas. A feature of this sale is the relatively large proportion of females being a fasture of this sale is the relatively large proportion of females being see the being nearly 100 nall, and only a few bulk. See the being nearly 100 nall, and only a few bulk the in Farm and Darrytisment and two pages of Ilustrations of these cat-trony of the females of fered. are break to be more and the set of the set of the females of fered. The set of the fered set of the set of the whose data and hand 151 thest in 38 days. It is a said that there is no other bulk on this side is like hutter in 7 days. It is and that there is no other bulk on this days is like hutter in 7 days. It is and that there is no other bulk on this days is like hutter in 7 days. It is and that there is no other bulk on this days is like hutter in 7 days. It is and that there is no other bulk on this days is like hutter in 0 his stock, which . This stock is being accurately of the ferenties of the stock, records, etc. see Holtsein Newton's days. For particulars res. O, James, Thornhill, and Jon. Kilgour, H. John Mor. For particulars res. O, James, Thornhill, and Jon. Kilgour, H. John Mor. For particulars res. O, James, Thornhill, and Jon. Kilgour, H. John Mor. I would be the stock records, etc. see Holtsein Newton in the particulars res. O, James, Thornhill, and Jon. Kilgour, H. John Mor. I would be the particular back records etc. See Moltsein News in the particular week.

photos hat week. To get to the phase of sale take a Metropolitan car from the north end of Tonge street. Cars have here every is minutes, and pass within a short betanenc of Mr. Nikour's farm. On the dut the sale conveyances will ask is to be held.

Auctioneers---B. V. KELLY, Syracuse, and R. G. HAEGER, Algonquin sure and stay over from the Annual Meeting and come out to the Sale. It will pay you, Catalogues and further barticulars can be had from

GORDON S. GOODERHAM, Bedford Park, Ont.







GASOLINE ENGINES



# FARM AND DATRY under such a regulation would be AND BURAT HOUR

Published by The Rural Publishing Com-

an A has

1. FARM AND DARRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Ematern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Canadian Holistein, Ayrabire and Jer-sey Oattle Breeders' Associations.

sey Cattle Breeders' Associations. 2. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.20 a year. For all countries, except Canada and Great Britain, add Sdo for postage. A year's subscription free for a club of two new subscribers.

new subscribers. 3. REMITTANCES should be made by Post Office or Money Urder, or Kegistered Letter. Postage stamps accepted for mounta less than \$1.00. Un all checks and 20 cents for exchange fee required at dd 20 cen

the banks. 4 CHANGE OF ADDRESS-When a c-change of address is ordered, both the old and are addresses must be given. 5. ADVERTISING RATES quoted on ap-plication. Copy received up to the Priday precedung the following weeks issue. 6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

### CIRCULATION STATEMENT

CIRCULATION STATEMENT The paid subscriptions to Farm and Dairy exceed 12,86. The actual encuda-paper sent subscriptions who are but slight-tion are accepted at less than the hull subscription rates. Severa detailed are showing its detribu-tion y counties and provinces, will be mained free our equest.

## OUR PROTECTIVE POLICY

Balance Tree on request
OLSA DE CONTRE FOLLEY
OLSA DE CON

FARM AND DAIRY PETERBORO, ONT.

# WANTED-A REAL MINISTER

In the course of an address last week before the Belleville District Breeders' Club, Prof. H. H. Dean, of Guelph, stated that at the Guelph College last fall in the dairy department there were ninety chairs for one hundred and sixty students in one class, and for one hundred and fifteen students in a second class. This doubled the work of the professors as they had to hold double classes, repeating their lectures.

Similar conditions exist in other departments of the college work,, but the Provincial Minister of Agriculture, Hon. Jas. S. Duff, is apparently unaware that any responsibility for this situation of affairs attaches to him. Recently he suggested, as a means of dealing with the situation, that the fees should be so increased so as to keep out students. Wasn't that a Minister of Agriculture to make! markets are in a fair way to be trick-The students who would be kept out along.

those of little means. These, as has been shown repeatedly at the College, in nine times out of ten, are the best students

At the meeting of the Corn Grow, ers' Association last week, the president severely criticized the minister of agriculture for his lack of interest in that association. Last December, Mr. John Bright, the president of the Winter Fair, as well as of the South Ontario Conservative Association.told Hon. Mr. Duff publicly that if he did not manifest greater interest in the work of his department the farmers of Ontario would be justified in supporting the platform of Mr N W Rowell, the leader of the Ontario opposition. It is becoming evident that there must either soon be a comprehensive forward move in the various branches of the department of agriculture at Toronto or we will have to get a new minister of agriculture. At present the latter seems to be the most likely. The shadow of the late Hon.

John Dryden grows larger every year.

## MARITIME PROGRESS

Perhaps there is no better indication of the new spirit that is permeating Maritime agriculture than the large attendance of farmers and farmers' sons at the courses held at the Nova Scotia Agricultural College. Although it is only a few years since the College was established at Truro. the attendance at both the short and regular courses is already larger than the attendance at the Guelph College, when the size of the constituency on which the College draws for students is considered.

The awakened interest that is being taken in Maritime agriculture is due in no small measure to the vigorous educational policy of the Provinof the Annapolis Valley have always been in the front rank of Canadian orchardists. Enthusiasm for Letter methods is now extending to those engaged in other branches of farming. Dairying in particular is making rapid strides, and in a few years this will be the most important branch of agriculture in Maritime Canada

A comparison with Denmark will give an idea of agricultural possibilities of just one of the Maritime provinces,-Nova Scotia. Nova Scotia is equal in area to Denmark; the soil is of better quality; the climate is ideal for dairying, much better than is that of Denmark; and being next to the ocean, the facilities are the best for shipping dairy produce to foreign markets. The new spirit that is being displayed by our maritime brethern for up-to-date farming methods will soon place them at the very front rank. A short course in agriculture with an attendance of 350 such as was held at Truro this year certainly foreshadows a grand future for agriculture in the provinces down by the 808

Those of us who do not follow the ed by the first slick fellow that comes

# FARM AND DAIRY

BREEDERS COOPERATING Last week the Belleville District Holstein Breeders' Club held its second annual meeting and banquet in Belleville, and this week the Ayrshire Breeders' Club of the same district did the same. These meetings are a sign of the times. They show that cooperation is making headway in Ontario. Soon we may expect to see similar breeders' organizations in various parts of the province. In fact, the nucleus of such organizations already exists among the Holstein breeders of Yonge Street, north of Toronto, in the vicinity of Tillsonburg in western Ontario, and among the Ayrshire breeders in the Howick District, Ouebec.

Our breeders are beginning to find that cooperation, not rivalry, pays the better. By working together, they are enabled to advertise their districts at a minimum of expense and to attract buyers from long distances who would not visit them did they not know that they would be afforded an opportunity to make selections from a large number of animals. The same centralizing forces that are at work in the business world and merging the small into the large concerns are making their influence felt in agriculture as well

No more important step pertaining to agriculture has been taken in Canada in many years than was adopted

at the recent annual Important meeting of the Domin-Actions ion Grange when that

organization placed itself on record as favouring the direct taxation of land values. This is a question that is going to grow in public importance rapidly from now on. As farmers we are beginning to realize that we are creating millions of dollars of land values each year cial Governments. The fruit growers that are flowing into the pockets of city landowners who do not create them but who take them out of us by increasing the cost of doing business in the cities, thus accounting for most of the difference between the prices that the producers get and the consumers pay. Just watch this movement grow. The Dominion Grange is playing an important part in the public life of Ontario, and deserves to be loyally supported by us formers

> "Regularity in attending to dairy stock will produce just as much milk as several pounds of grain, and it

costs less." These Regu. words, addressed to one larity of our editors by a successful Oxford county.

Ont., dairy farmer, are indeed words of wisdom. No amount of grain feed will take the place of perfect regularity in the care of dairy cattle. Regularity, on the other hand, will take the place of a considerable amount of grain. The milk that a cow gives does not depend on the amount of feed she eats, but on the use that she makes of it in the digestive tract. It is a fact well known to all good herdsFebruary 8, 1012.

milk a cow at the same hour night and morning than to do the same work at irregular intervals. Let us practice regularity. It pays in dollars and cents.

"You can fool all the people some of the time and some of the people all the time ,but you can't fool all of the people all of the

time." Some advertis-Don't be Fooled ers imagine that they can fool all the people

all the time. Some advertisers make fortunes by advertising to furnish material they do not have on hand. They manage to fool a great many people. By our Protective Policy we undertake to shut out from our advertising columns those advertise. who carry on this "fool" business. Be protected by dealing with the advertisers that advertise in Farm and Dairy.

When a farm is badly run down, there is no Letter way to bring it up to a state of fertility than to put it into dairying, provided the dairy products are sold in some form or other of the butter fat produced.

We farmers can better afford to sell our five dozens of eggs fresh to the gatherer at two cents a dozen less. every two days, than to spend a half day away from the farm to market them irregularly-stale.

# The Impatience of Breeders

(The Breeders' Gazette) It is to the man who can wait and work that stock husbandry yields its largest results. Impatience has no reward in any great undertaking. No reward in any great undertaking. No distinguished breeder in the days of type-creation did his work in a few years. Our American breeders of eminence have been patient to wait in faith for herd improvement and the reward that inevitably follows a serreward that invertance to inter a be-vice of real merit. Animal breeding increases numbers quite rapidly, but it requires time to effect and fix it requires time to effect and fix changes in form. Men without patience cannot wait for the great satisfactions which time alone can bring in this fiel<sup>1</sup>

Because they lack patience many American farmers who establish herds, flocks and studs sell out and quit before giving pedigree animal hus-bandry a fair trial. If they do not make money from the outset they are sure it is the fault of the stock; so they quit or try another breed, class or system. Others, who may be less or system. Others, who may be less concerned about immediate financial returns but aspire to prominence as constructive breeders, lose interest be-

cause progress commonly is slow. Stock breeding is not a fad-like recreation in which quick reward, in money or progress, is possible, except infrequent instances. No in should engage in the business with the expectation of being a notable excep-tion to the rule. Whatever his qualition to the rule. Whatever his quali-fications and favoring conditions, every beginner is practically sure to travel the long road of the masters, if travel the long road of the masters, if he achieve ends comparable with theirs. No short cuts can be pro-mised; the quick ways usually lead deviously and expensively back to the

main route. Viewed in this light, the breeding of pure-bred stock is most attractive to the patient man who has a genuine men that the dairy cow's digestion is much better when ahe is fed regularly, he will does not cost any more to feed any he will reag generous reward along It does not cost any more to feed and the way.

February

It is a pr believes in his money i What be

require show vortice than ing the an propriations known corn

Bear in n tures are c ale who m ments, not turns are in of expenditu Union Pacifi

Pacific ... Standard Oi Sears, Roebi Coco Cola . C. W. Post . Gold Medal Quaker Oate nheuser-Bus Anheuser-Bu: Kellogg Corr American To Armour Com Oliver Typev De Laval Se Gold Dust Goodyear Ti Karo Corn S vory Soap Cluett, Peabo American Ra Pennsylvania Prudential Li nternational

Don't be expenditures are-do not

Were it ne would not b bably one of MERCE and that primitive our forefathe ago.

Advertising known aid EXERTS POWER. I EST and GOODS.PRO ERY AND I and at a pr not for adve making possi distribution. greater-poss

reach. Figures ar show what s altogether-Ca corporations a vertising. W far advanced the line, the Year by year their adverti

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PAYS THEM More and are coming to VALUE OF TRADE TH that THE BU DAIRY FARM WHILE, for the increasing BETTER AD DAIRY FAR FARM AND I "A Paper Fai

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It is a pretty sure sign that one believes in a thing when he puts his money into it.

What better proof could one require showing that it pays to advertise than the figures representing the annual advertising appropriations spent by some wellknown corporations and firms

Bear in mind that these expendtures are considered by the people who make them as investments, not expense. Ample returns are imperative in all cases of expenditure like these

Union Pacific and Southern 
 Union Pacific and Southern

 Pacific
 \$1,250,000

 National Biscuit
 \$1,000,000

 Standard Oil
 \$1,000,000

 Scars, Roebuck
 \$1,000,000

 Cco Cola
 \$1,000,000

 Co Cola
 \$1,000,000

 Good Medial Flour
 \$750,000
 Gold Medal Flour Quaker Oats ..... Anheuser-Busch Kellogg Corn Flake ... American Tobacco Armour Company ... Oliver Typewriter De Laval Separator Co.. Godd Pust .... Goodyear Tire Karo Corn Svrup ... 500,000 300,000 250,000 250,000 250,000 250,000 300,000 300,000 Goodyear Tire Karo Corn Syrup Ivory Sonp Cluett, Peabody American Radiator Pennsylvania Railroad Prudential Life International Harvester ... 250,000 250,000 200,000 250,000 150,000 100,000

Don't be led astray. These expenditures-tremendous as they are-do not come out of you.

Were it not for advertising you would not be familiar with probably one of these firms. COM-MERCE and YOU would be in that primitive state such as were our forefathers of generations ago

Advertising is the greatest known aid to distribution. EXERTS A MARVELLOUS POWER. It brings THE NEW-EST and MOST RELIABLE GOODS, PRODUCTS, MACHIN-ERY AND INVENTIONS to you and at a price, which, were it not for advertising helping in making possible wide and easy distribution, would be much greater-possibly beyond your reach.

Figures are not available to show what some of our leading altogether-Canadian firms and corporations are spending for advertising. While they are not as far advanced as our cousins across the line, they are advertising. Year by year they are increasing their advertising appropriations, as they find THE INVESTMENT PAYS THEM WELL.

More and more these firms are coming to appreciate THE VALUE OF THE FARMERS' They are finding out TRADE. that THE BUSINESS OF THE DAIRY FARMERS IS WORTH WHILE, for proof of which note the increasing volume of THE BETTER ADVERTISING in this DAIRY FARMERS' PAPER -FARM AND DAIRY-

"A Paper Farmers Swear By"

# FARM AND DAIRY

# Why He Refused to Join the Cow Testing Association (Hoard's Dairyman)

Every community of farmers usual-Every community of farmers usual-ly has one or more men in it who are not honest enough to promote their own knowledge or their final best in-

own knowledge or their final best in-terests. A certain percentage of farmers, as well as other men, think that small tricks and a portion of dis-honesty are necessary to make mongy. We are reminded of this by hearing why one farmer in this county would not join a cow testing association. In a moment of over confidence he dis-closed the reason to a neighbor. It was because he did not want to know his poor cows, for then he could not soil them as good ones so easily. his poor cows, for then he could sell them as good ones so easily.

sell them as good ones as easily. Here is a man who from diskonest motives preformed to do uniseness has on his ignorate the do unises has knowledge. That man the them or make a first class dairy farmed way from the larger truths of the business be-cause they fear the light. They in-variably grow smaller in mind and character and excite more and more the distrust of those who deal with them.

them. It is a big mistakes for any man to start out in life with such narrow and stupid ideas. They bar him at once from the larger condidence of straight men. He fools himself badly if he thinks those about him do not take his measure, for they do, and, as a consequence, they avoid dealings with him as much as possible.

# But Then-It Pays

A writer in the Saturday Evening r'ost well and truly says :

Alfalfa demands good farming. It Alfalfa demands good farming. It declines to grow on poor, wet, weedy, sour and untilled lands. Many fail with it on first trial. Some have be-come discouraged and called it hard co grow, yet it is almost a weed in its rank spread in apecially favored localities. This fastidious nature has hundred it rournes in the favor of its rank spread in apocially rayored localities. This fastidious nature has hindered its progress in the favor of carcless farmers, who ignore its car-dinal requirements. Its three simple demands are a dry, sweet, fortile soil; but these involve about all there is to good soil management, namely: drain-ment is a addity when peeded good soil management, namely: drain-ige, liming for acidity when needed and adding the needed fertilizers, with proper tillage. Alfalfa refuses to be made a side issue; it demands the best field care of the farmer to establish it. It develops his patience, as it must be cut sparingly the first year and must not be rudely tramp-ind. lod.

NO REST FOR ALFALFA GROWERS

NO. REST FOR ALFALFA GROWERS "Farming was not so hard before we knew alfalfa," compliance a Kan-sas farmer. "There used to be occa-sional periods of rest, tut now this possible and the source of the source of the source of the source of the possible and the source of the source of the source of the source of the possible source of the form of the source of the source of the form of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the source of the source of the source of the form of the source of the form of the source of the form of the source of the source of the source of the source of t county, but now that cussed alfalfa must be cut. Can't leave it or it spoils; and in October when the corn spoils; and in October when the corn harvest is about over, there is an-other hay harvest. It's just cut, cut all he year-and that is not all. Our barss are full of the stuff, stacks fill every available feed lot and we are prige to east if up out of the way not the next season's orops. Alfails is no erop for a lazy farmer."



(13)

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Sir Wm. Van Horne, Ex-Pres't Canadian Pacific R'y Justice R. M. Meredith, Ontario Supreme Court

- C. H. Mackay, Pres't Postal Telegraph Co. B. H. Bull & Sons, the great Jersey breeders
- J. M. Studebaker, the great American wagon builder
- J. P. Morgan, the greatest of American bankers
- Hon. Clifford Sifton, M.P. from Ottawa
- Prof. W. H. Caldwell, Sec'y Am. Guernsey Cattle Club Dominion Experimental Farm, Napan, N.S.
- U. S. Senator Knute Nelson, of Minnesota

and many others like them, good dairy farmers as well as great leaders in every sphere of human endeavour, each of whom is possessed of much personal experience and a thousand authori-tative sources of separator information, are among the 1,375,000 satisfied users of DE LAVAL Cream Separators?

It's always a wise policy to profit by the experience of others.



RDERS are flocking in these days for our great Veterininary and Horse Doctor Book which we offered in recent issues of Farm & Dairy to give away on the following conditions:

Free in return for two new subscriptions to Farm and Dairy each taken at only \$1,00 a year. All old Subscribers to Farm and Dairy may have this book sent free and postage paid to their own address in return for their own renewal subscription to Farm and Dairy, \$1,00 and one new subscription only \$1,00.

If handsome cloth binding and extra qual-ity paper is desired send 25c additional.

This great book is Gleason's Veterinary Hand-Book and System of Horse Taming, 500 pages, illustrated. Troats of all the dis-eases of Horses, Cattle, Poultry, Sheep and Swise and gives their Remedies and full ad-vice as to their cure.

It may mean many dollars to you some day soon to have this practical and reliable Veterinary book right at hand.

Don't put off getting your copy now. See your friends and neighbors right away. We cannot guarantee to hold this unusually good offer open much longer.

Farm and Dairy Deterboro, Ont.





CALVES RAISE THEM WITHOUT MILK Booklet Free.

# WE ARE OFFERING

For Quick Sale, a First-class Dairy Farm in Oxford County CLOSE TO WOODSTOCK

Being 150 acres of choice land in go stae of cultivation. Buildings splendid, Dwelling has hot water heating and light-ed with gas. A large milk route in con-nection if desired. Proprietor going west. We have also a large list of farms of all sizes. Send for Pamphlet. Apply to ae of cultivation. Buildings splendid.

**ORMSBY & CLAPP** WOODSTOCK

First Aid

# FARM AND DATRY

-----**Creamery Department** Butter makers are invited to send contributions to this department, to ask questions on matters relating to butter making and to suggest sub-jects for discussion. Address letters to Orcamery Department. assassassassassassassassassas

Accurate Cream Samples

L. A. Zufelt, Dairy School, Kingston.

L. A. Zufelt, Dairy School, Kingston, Ont. In the early history of buttor-mak-ing various devices were employed for the purpose of determining the amount of fat in cream with more or amount of fat in cream with more or less accurate results, but since the in-troduction of the Babcock tester we can with a greater degree of speed and accuracy determine the amount or percentage of fat which the cream contains, if certain conditions are compiled with. No one, I take it, will dispute the accuracy of the Babwill dispute the accuracy of the Bab-cock in determining the percentage of fat in cream if the work is properly performed. The reliability of the Babcock depends largely upon the operator. The test itself is compara-ticals single and the second second second second second test is a second seco operator. The test itself is compara-tively simple and accurate, and where errors occur they are due not to the machine but to the man.

County machine but to the man. SECURE A DEPRESENTATIVE SAMPLE In manipulating this test certain conditions must be compiled with the most important of which are that a representative sample of the cream farms of an or representative sample of the cream farms of a representative sample of the cream the secured and then the correct mount placed into the test hofthe is the secured as to give the percenter age of fat when 18 grams (or nine grams) of cream is used and if less than this amount is used and if

this amount does not fairly represent bearings and cause heavy running, the cream from which it has been vibration and extra wear. This can taken, then undoubtedly the result be easily overcome by flushing out

The cream from which it has been taken, then undoubtedly the result will not be accurate. The piptet used is supposed to de-liver 18 grams into the bottle, but as the weight of cream varies accord-ing as it contains a greater or leas accurate the superscent of the sup-control of the superscent conditions of the cream. The present conditions of the cream whether is provided the control of the superscent conditions of the cream whether is the super-rectly measure the exact amount, and the only way to insure getting 18 grams into the bottle is to employ a set of scales and weight in. The scales made for this purpose are reasonably accurate and will give results correct to within half and one per cent of the total amount, which is recognized as within the limit of error.

Taking a volume of water at a tem-perature of 60 that weighs 1,000 as a persure of 60 that weighs 1,000 as a standard, the same volume of fat will weight 930, whole milk 1,032 and akim milk, 1,036. The weight of cream will range anywhere between these, de-pending on the amount of fat which it contains. The greater the percent-age of fat the lighter it will be, as fat is the lightest portion of the milk. The difficulty of measuring 18 grams from creams of varying riehness is error will be corresponding to the same start of the second se from creams of varying richness is quite apparent, and the resulting error will be correspondingly great for if the pipette will deliver the corfor if the pipette will deliver the cor-rect amount, say for a 25 per cent cream, then with a poorer cream the same volume would weigh more than 18 grams, as we would be measuring a heavier substance, and if the cream were richer, then 25 per cent less weight would be delivered on account weight would be delivered on account of it being lighter. The only correct method to employ is to weigh the samples if we wish for correct results.

To illustrate this more thoroughly, sts were made at the school of creams of varying richness with the

			esults: Pipette	Scales	į		Pinett
4.2			15.0	33.5	١,		32.
1.0			21.0	34.	1		33.
			25.0	36.			34.5
			26.5				. 38.
				42.		,	42.5
9.			29.				

It is needless to comment on the It is needless to comment on the above figures as they speak for them-selves and show conclusively that in testing cream the samples should be weighed, not measured.

# More Profit from the Hand Separator

In order to get the highest possible profit from a hand separator there are a few, but very important fac-tors, which must be taken into consideration. Foremost among these factors is the selection of a machine. Many people fail to realize the im-portance of this factor and lose money

Having selected a good separator, it is very important to get it set upon a level and solid foundation, in upon a level and solid foundation, in a clean and airy room. Much money has been lost because of the very fact that the separators have not been properly set up. The reason for the losses are two-fold.

First, if the separator is not well veled and well held down, it will leveled and well held down, it will shake and tremble all the while, thus causing a constant and unnecessary wear on gears and bushings, and in that way greatly shorten the lifetime

of the machine. Second, a trembling machine can-not do first class work, but will leave some cream in the skim-milk. This is some cream in the skim-milk. This is a loss in profit, because butter fat while it is a good feed, is far too ex-pensive for stock feeding. There are other feeds which are not only fully as good, but they are also much cheaper.

## OIL BEFORE USING

In order to insure good running the separator should never be started before having been well oiled with a good grade of separator oil. Even the information. best oil will in time "gum-up" the SMALL BROS. - Dunham, Que

bearings and cause neavy ru-vibration and extra wear. Th be easily overcome by flushin, the bearings with kerosene or the bearings with kerosene once or twice a month. The kerosene will also remove any dirt and dust particles which may have entered the learings from without

One of the greatest losses in profit One of the greatest losses in profit during separation is caused because the separator has not been properly speeded up before the milk is let into it. When such is the case, the skimit. When such is the case, the skim-ring is very incomplete and the ma-chine is hard to turn. Besides it is nearly impossible to gain the full speed afterward. In other words, it is like pulling up hill all the time. A minute or two spent in starting the machine is economy all around. 30 PER CENT. CREAM BEST

In skimming, care should be taken to have the cream screw so regulated to have the cream screw so regulated that a cream testing from 30 per cent. to 40 per cent. c:n be secured. Cream testing over 40 per cent. gets thick and sticky, and is apt to cause too heavy losses in transferring it from

# Not Complete Without It

"We think that every copy of Farm and Dairy that reaches Farm and Dairy that reaches our home is an improvement on the former one. We take much pleasure and profit out of read-ing its very interesting and in-structive columns. A farmer's home is not complete without the Farm and Dairy."-E. S. Beer, Durham Co., Ont.

one container to another. Below 30 per cent. the cream contains too much skim-milk, which could be used to good advantage for stock feeding at good advantage for stock feeding at home. The creameries pay for the butter fat only. Besides a thin cream is much harder to keep sweet. The bacteria develop in the milk and not so much in the fat.

so much in the tat. Put nothing but clean milk through the separator, and try to have the milk as nearly 90 degrees F. as pos-sible when skimming because experi-

sible when skimming because experi-ments prove it most economical. Under no circumstance should a separator be used twice without clean-ing. It is not alone a filthy habit to neglect washing each time the sepa-rator has been used, but it is poor economy as well, for besides making washing more difficult the next time, it causes poor work and extra wear on the machine. In addition the on the machine. In addition the keeping quality of the cream is less-

The last factor to be considered in getting the greatest profit from the use of the hand separator is the care of the cream. This is important for wo reasons :

First, cream is a good food prod-uct, and as such it ought to be well taken care of.

Second, many creameries have be-gun to pay for cream according to quality. This makes the question an economic one, since there is a difference of from one to three cents per pound of Lutter fat between first and second grade, and as much difference between second and third grade.



-----Cheese Makers are invit to this department matters relating i suggest subjects f letters to The Chee ...........

February 8.

A Leeds Che G. W. Brown For the last t

For the last the been running the tory, owned by factory is built coment floors, wi roof. A spring water, which is c to a cistern in numped by an in

and into an alay runs around and a half time the purpose of c This season I

pounds more chee not as good this we have three me cows. We paid of for the first 18 d 821.12 a ton for

# Conclusions o

Frank Herns, Ch for West

It would be bes turned in the ca The advant teurization overo The patrons shou it is to the adva they are paid to 2. To get th pasteurizing mak

for the factory t disposing of the wash water, whic tary conditions. 3. Properly pa be returned sweet

nary whey for fee cially for voung a dence to diarrhea value for feeding cases underestima



# **Tubular** Crea Are the W

te of man Size of machine, N Capacity per hour, Total pounds separ Total turns of cran Total cost of oil, 7 Total cost of repair Time used in oiling Time repairing and This wonderful r

ou will finally h

THE SHARPLES TORONTO, CANADA.



08 <u>.</u>...

A theorem are invited usend contributions matter relating to chose making and the set of the set

A Leeds Checkemater Writes G. W. Brone, Leeds Go., Ont. For the last three seasons I have been running the Wilson Cheese Fac-tory, owned by J. B. Wilson. This factory is built of coment blocks and coment floors, with a galvanized iron roof. A spring nearby supplies the sater, which is carried through pipes or other in the Galvery and is water, which is carried through pipes to a cistern in the factory and is pumped by an injector into the boiler and into an elevated tank. The waruns around the curing room two and a half times through pipes for the purpose of cooling the room.

This season I made nearly 10,000 pounds more cheese than last. It was not as good this year for milk, but three more patrons and more wo have cows. We paid our patrons \$28 a ton for the first 18 days of November and \$21.12 a ton for the whole season.

## **Conclusions on Pasteurization**

Frank Herns, Chief Dairy Instructor

Frank Herns, Chief Darry Instructor for Western Ontario. It would be best if no whey was re-turned in the cans. But if it must be returned, then—

 The advantages of proper pas-teurization overcome the objections.
 The patrons should bear the cost, and it is to the advantage of the makers to look after the details. Moreover, they are paid to do so.

2. To get the best results from pasteurizing makes it more necessary for the factory to provide means for disposing of the surplus whey and wash water, which improves the sanitary conditions

 Properly pasteurized whey may be returned sweet, is superior to ordi-nary whey for feeding purposes, especially for young animals. A less ten. claim for young animals. A less ten-dence to diarrhowa is also claimed. The value for feeding has been in many cases underestimated owing to the un-



# cents per year for oil and repairs. Here is the record. It proves that SHARPLES **Tubular Cream Separators** Are the World's Best

Arie dife World's Debt. jire of machine, No. 4 Tubular, apacity per hour, 500 pounda. Total pounds separated. 2,600,000. Total turns of crank, 14,352,000. Total cost of 01, 75 cents. Total cost of 01, 75 cents. Time used in oiling, 15 minutes. Time repairing and adjusting, 20 minutes.

This wonderful record was made by a reg-lar Tubular-just like Tubulars that are apidly replacing all others. Write for illus-rated account telling all about it.



FARM AND DATRY

fruity flavored cheese is from 1-8 to 1-2 cent per pound. Pasteurization will diminish and in many cases eliminate yeasty, fruity and some oth-er flavors. This is dollars saved and improvement in quality. Offers pro-tection to the stock from disease

clean. If proper arrangements are made there is no excuse for not keep-

7. The cans are more easily wash-ed but must be scalded whether the

whey is pasteurized or not. 8. The factory must have a suffi-cient supply of water and a boiler large enough to furnish the steam re-quired. The tanks should be close to

tight valve is required Letween the

Douer and the tank.

 Large quantities of whey should not be left over in the tanks from day to day or wash water run in. Properly constructed septic tanks will handle the surplus effectively.

10. A test for acidity will show fairly well if the details necessary to

proper heating are observed. 11. The tanks should be covered. Sound wood tanks are to be preferred

Sound wood tanks are to be preferred to improperly constructed cement, while steel is better than either. Rotten wood tanks will not stand the heating and therefore have to be re-placed, which is an advantage. 12. All the whey should be heated in the lower and then elevated to the upper task.

in the lower and then elevated to the upper tank. One tank, preferably both, should be large enough to hold one day's whey, which allows the tanks to be emptied each morning. 13. Unclean, sour whey has probab-

ly turned many patrons to the hand

separator as has the same kind of skim-milk from whole milk creameries.

solve the problem, but if simple de-tails are observed this method goes a long way towards doing so.

Canadian Seed Growers Meet

The subject of how to improve the

The subject of how to improve the productive qualities of the 40 million bushels of seed required in Canada each spring for seeding purposes is one which will occupy the serious at-tention of leaders from both Canada and the United States, at the eighth annual convention of the Canadian Seed Grovers' Association to be hold in Ottawa on Felzuary 8th and 9th. This is a problem of treat national

This is a problem of great national importance, affecting, as it does, the very foundation of our prosperity as

Among those who will address this convention are Rufus Stimson, spe-

a nation.

quired. The tanks should be close the boiler and the pipes insulated.

The tanks are more easily kept

germs

ing them clean.

boiler and the tank.

# Largest and Most Complete **Dairy Supply House** in Canada



Full and complete line of Creamery and Cheese Factory Supplies and Apparatus, including Butter Tubs, Cheese Box Material, Ren-

net Extract, Cheese Bandage, Disc Heaters. Boilers. Engines. etc.

Sole distributers in Canada for the famous De Laval Factory Cream Separators, Whey Separators and Milk Clarifiers.

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Programs

De Laval Dairy Supply Co. Limited

173 William St., Montreal

The day sessions will be held in Room 7, Dairy and Cold Storage Branch, Canadian Building, while the evening session of Feb. 8th will con-vene in the Railway Committee Room of the House of Commons. All who are interested in the "Good Seed" movement should do their best to be

may be had on application to the Sec. C. S. G. A., L. H. Newman, Ot-

The Corn Show

Two of the features of the Corn Show held at Tilbury, Ont., last week were the farm ouse and barn in corn

architecture shown by the farmers of Tilbury East, and the corn summer house in bungalow design in the ex-hibit of the Romney Farmers' Club.

These are but two of the many in-

genious ways in which the members of the Ontario Corn Growers' Associa-

tion showed to visitors at the fair the wealth that lies in the corn lands of

All of the competitive classes were well filled and competition was keen. Some of the sweepstake prize winners

were: Beet 10 ears mit single ear Hankinson, Gravesend; single ear dent corn, T. J. Shepley, Ouvry; best 10 ears sweet corn, A. E. Wis-variet

best 10 ears avect corn, A. E. Was-mer; best five ears, any variety, shown by boy or girl under 16 from Tilbury East, Harold Shepley, Ouvry; best display of Farmers' Clubs, Til-bury East Farmers' Club.

Best 10 ears flint corn, L. D.

present at this convention.

towa

Ontario.

woro :

convention are Rufus Stimson, spe-cial agent freelultural education, best display of Farmers' Clubs, Til-best display of Farmers' Clubs, Til-botty Sast Farmers' Club. buty Sast Farmers' Club. I received my pure bred Yorkshire of Agriculture, Toronto; Prof. L. S. Klinck, Macdonald College, Gue, Mr. J. H. Grisdale, Director of Experi-mental Farme, Ottawa; Dr. C. Saundors, Cerealist. Experimental She is a dandy and looks as though Farme, Ottawa, and Mr. G. H. Clark, She would be a good Lood sow.-T. Seed Commissioner, Ottawa.

14 Princess St., Winnipeg

# CHEESE FACTORY FOR SALE

First class cheese factory with butter plant. Best dairy district in Canada Flowing spring piped in factory. Hous separate, nearly new. Make 1910, 186 tons Apply Box 5, FARM AND DAIRY.

FOR SALE up-to-date cheese factory one acre land; received 81.50 per 100 bes. Cheese for manufacturing. 'smile to eschool. Resson for neiling-acopied diverg-round, and receives 8.00 to 5000 be. milk per day in summer. Address FRED S. HADLER. GREEN LEAF, WIS., U.S.A. P. N. N. S. Bos 1

# FOR SALE AND WANT ADVERTISING

# TWO CENTS A WORD, CASH WITH ORDER

WANTED-Position as manager of cream-ery. Can furnish references. Apply to H. E. Doupe, Petrolea, Ont.

WANTED -- Buttermaker for Kerwood Creamery. Apply, stating experience and salary wanted.--W. Wadell, Ker-Ont

WANTED-First Class Buttermaker, for Craamery. References required. Six months' run guaranteed. Apply stating salary, to The Saskatchewan Oreamery Co., Annaheim, Sask.

WANTED-Young man to drive cream ,wagon. Must be good with horses, neat and clean. Steady job by year to right man. Box 125, Farm and Dairy, Peter-boro, Ont.

CREAMERY FOR SALE—Doing spiendid business. Everything in first class con-dition. 150 tons ice put up for next sea-son. A spiendid opportuality for right man. Box 25, Farm and Dairy, Peter-boro, Ont.

BOTCO, ORL. FOR SALE-Very cheap, as owner is going to the West, splendid outilt, practically a new 14 H. P. boiler and 10 H. P. engine, very suitable for butter making, or cherees factory. Correspond with P. D., Box 46, Cayuga, Ont.-J. J. Marray & Go., Oayuga, Ont.-J. J.

(15)



TITISDOM is knowing what to do next. Skill is knowing how to do it. and virtue is doing it.- Jordan.

... The Second Chance (Copyrighted) NELLIE L. McCLUNG Author of "Sowing Seeds in Danny (Continued from last week)

(Continued from last usek) Pearl, the oldest daughter of John Waison, a O. P. 3. esction man living in Milford, Man. receives a large sum of monory from the relatives of a young Rep-filter, Man. receives a large sum of monory from the relatives of a young Rep-filter of the family. The Waison mail, the decides to dencate hereelf and the rest of the family. The Waisons on II, the decides to dencate hereelf and the rest of the family. The Waisons were an efficient and circumstance and the set of the family. The Waison as for the set of the set of the set of the the family. The Waison as for the set of the set of the set of the thild in the town and gives up her ambition to be a set of the set of the decide to the child out a farm, to which John Waison agrees. We are intro-tioned to the child out a farm, to which John Waison agrees. We are intro-tioned to the child out a farm, to which John Waison agrees, we are intro-tional, as her faber owes of the farm. The Waison family begin to a theory is the Waison family for the set of the set o

again.

"Don't cry, Libby," he said. "I'm

John't Cry, Libby," he said. "I'n going away to make lots of money and you mustn't fret. Every night I want you to say to yourself: 'I'm Bud's girl, and he won't forget me':

and whenever you get lonely or down-hearted, just say that. Now, Libby Anne, tell me who you are." "I'm Bud's girl, all right," she answered gravely.

The sun had gone down in a crim son haze, and a misty tenderness seemed to brood over the world. The

seemed to prood over the work. The September evening was so full of peace and beauty with its muffled tinkle of cowbells and the soft some of the whippoorwill that came at in-

tervals from the maple bush on Oak

tervals from the maple bush on Oak Creek, it was hard to believe that there were troubled hearts anywhere. The hoarse whistle of a long freight train on the C.P.R. boomed

hreight train on the C.F.K. boomed harshly through the quiet air. "I must go, Lib," said Bud, Libby Anne stood looking after him as he went quickly down the

him as he went quickly down the road. The evening twilight soon hid him from her sight, but she still looked down the winding road until it dipped down in the valley of Oak

Creek. Suddenly from the river bank came the weird cry of a prairie wolf, and Libby Anne, turning with a shudder, ran home in the gathering dusk.

CHAPTER XXII.

AUTUMN DAYS.

There's a wonderful charm in the

autumn days, When Earth to her rest is return-

ing;

time, Bud," and she caught her breath in a quivering sob. Then Bud lifted the little girl in his arms and kissed her over and spiration.

"He is able to deliver you," it said

said. Bud read it now scornfully, and with a sudden impulse tore it down and crushed it in his hands. "There's nothing in it," the boy

"There's nothing in it," the boy cried bitterly, He went out to the pasture and whistled to his pacing colt, which came to him at once. The boy laid his head on the colt's velvet neck and patted it lovingly. "I'll come back for you, Bunko," he said. "You're mine anyway." The colt rubbed his head against Bud's arm.

Bud's arm.

Across the ravine, where the fring-ed blue gentian looked up from the sere grass, the cows were grazing, and Bud, from habit, went for them and brought them up to the bars.

The sun was setting when 'Bud reached the Cavers's house, for he could not go without saying good-bye to Libby Anne. She was driv-ing their two cows in from a straw stack, and called gaily to him when

she saw him coming. "I've come to say good-bye, Lib," said Bud simply.

"Where are you going?" she asked

"I don't know-anywhere to get away from here." Then he told her what had happened.

what had happened. "I'm glad you took a smash at Tom Steadman," she said, her big eyes flashing, when he had finished. Then suddenly she began to cry. "I don't want you to go," she sobbed. "You won't ever come back; I won't ever see you again."

"Don't say that, Libby," Bud cried in real distress—she looked so little and pale in her black dress "I will

When the nils are drowned in a purple haze, When the wild grape sweetens, and all in a blaze

all in a blaze Of crimson the maples are turning —Helena Coleman.

When autumn came to the Souris valley and touched the trees with crimson and gold, it found that some progress had been made on the farm that was getting its second chance. Down on the river flat the hay had Down on the river flat the hay had been cut and gathered into two stacks, which stood beside the stable, and the two Watson cows now fat-tened on the rich growth of aftergrass

grass, The grain, which had been an abundant crop, had been threshed and drawn at once to the elevator, and drawn at once to the elevator, for there was no place to store it; but as the price was one dollar a bushel for the best, and seventy cents for the poorest, John Watson had no cause for complaint. The statue cause for complaint. The statute, which he had built of poles, was now roofed by a straw stack and was in-tended for a winter shelter for the two cows

In the early spring Pearl had planted a bed of Polly's poppies, and all summer long they had flamed red brilliant brilliant against the poplar behind the house, which shell and KTOVE tered them from the winds. 1 04 - 11 cut down and the scrub cleaned out for a garden the next year. In the holidays the boys had fenced this with peeled poplar poles.

A corner of the wheat-field before the house had already been used for a garden, and had been a great source of delight and also of profit to the family. The boys had com-plained a little at first about having to pull mustard and shepherd's purse and french-weed, with which the farm was infested, but Pearl pre-sented weed-pulling in a new light. She organized two foraging parties, who made raids upon the helds and brought back the spoils of war. Patbrought back the spoils of war. Pat-sey was Rhoderick Dhu, who had a henchman bold, called Daniel the Redhanded. Bugsey was Alan-bane, and Tommy was to have been his henchman, Thomas Trueman, but Tommy had strong ideas about equal rights and would be Alan-bane's tuil brother Tommychae, ac sec rights and would be Alan-bane's twin brother, Tommy-bane, or no thing. They were all dark-visaged, eagle-eyed Highlanders, who made raids upon the Lowlands to avenge wrongs.

Pearl had learned about the we at school, and soon had her whole family, including Aunt Kate, organ-ized into a weed-fighting brigade. Even the golden dandelion was ruthlessly cut down, and Mary, who was strong on experiments, found lout that its roots were good to eat. After that any dandelion that showed its yellow face was simply inviting destruction

In school Pearl was having a very happy time, and she and her teacher were mutually helpful to each other. Pearl's compositions were Mr. Don-ald's delight. There was one that he carried with him and often found inspiration in to meet the burdens of inspiration in to meet the burdens of his own monotonous life. The sub-ject was "True Greatness," and was suggested by a lesson of that name in the reader. Needless to say, Pearl's manner of treating the sub-ject was different from the reading lesson lesson

person can never get true ness," she wrote, "by trying "A person can never get true greatnes," she wrote, "by trying for it. You get it when you're not looking for it. It's nice to have good clothes--it makes it a lot easier to act decent-but it is a sign of true greatness to act when you haven't got them just as good as if you had. One time when Ma was a little girl Bill, that broke hinkose, called thought they would have to kill him, "A

# February 8, 1912.

When the hills are drowned in a but next morning they found him propped up sort of sideways on his good leg, singing! That was true good leg, singing! That was true greatness. One time there was a woman that had done a big washing and hung it on the line. The line and hung it on the line. The line broke, and let it all fall down in the broke, and let it all fall down in the mud, but she didn't say a word, only did it over again; and this time she spread it on the grass, where it couldn't fall. But that night a dog with dirty feet ran over it. When couldn't fall. But that hight a way with dirty feet ran over it. When she saw what was done, she sat down and didn't cry a bit. All she said she saw what was done, she sat down, and didn't cry a bit. All she said was: 'Ain't it queer that he didn't miss nothing !' That was true great-ness, but it's only people who have done washings that know it! Once done washings that know it! Once there was a woman that lived near a pig-pen, and when the wind blew that way it was very smelly, indeed; and at first when she went there to and at first when she went there to live she couldn't smell anything but straight pig, but when she lived there a while she learned to smell the clover blossoms through it. That was true greatness."

Was true greatness." Camilla's wedding had been a great event in Pearl's life. It had taken place early one Wednesoay morning in the church at Millford. It had morning in the church at Milliold. It was a pretty wedding, the paper said. The altar of the church was banked high with wild roses, whose banked high with wild roses, whose sweet perfume made Pearl think of schoolbooks—she always kept her books full of rose petals, and to her it was a real geography smell.

Mr. Burrell and Mr. Grantley both Mr. Burrell and Mr. Grantley both took part in the ceremony, to show there was no hard feelings, Pearl thought, for Camilla was a Presby terian and Jim was a Methodist.

Mr. Francis brought Camilla in Mr. Francis brought Camilla In, and Pearl followed. Jim and the doc-tor stood at the altar, while down for stood at the attar, while down from the choir-gallery, which seemed to be overflowing with roses, came the strains of the wedding march. the strains of the wedding march. Pearl had never heard it before, but it seemed to her now as if she had always known it, for in it throbbed the very same joy that was beating in her own heart. It was all over in a her own heart. her own heart. It was all over in a minute and they were coming down the aisle, her hand on the doctor's arm. The carriage was waiting for them at the door, and they drow back to the house, everybody talk-ing and laughing and throwing rice.

When the wedding breakfast was over, and Jim and Camilla had gone on the train, Pearl and the doctor and Mr and Mrs. Francis drove back to the house. Everything was just as they had left it—the flowers were still they had left it—the flowers were stull on the table, and the big clock in the hall was still going, though it seem-ed a long, long time that they had been away. Mrs. Francis was quite worn out by the efforts of the mornworh out by the efforts of the morn-ing, and said she must go and rest. Would Pearl box up the wedding-cake in the little white boxes? "It a severe strain to lose Camilla, is a severe shall be two weeks. Two weeks is fourteen days, and that means forty-two meals without her." "We'll attend to the wedding-cake and put away presents and r things generally," the doctor said. THD

In the dining-room Dr. Clay put in the dhing-cool pr. Clay put up wedding-cake and packed it in boxes for mailing, while Pearl quick-ly cleared away the dishes. She was quite a pretty little girl in her white ly cleared away the dishes. She was oquie a pretty little girl in her white silk dress. She was tall and slight. and lithe and support of the start of the ments, with pansy-brown eyes and a smooth, olive skin that neither sun nor wind could roughen. But the beauty of her face was in the serene expression which comes only to people whose hearts are brave and sweet and honest. sweet and honest.

The doctor watched her with a great admiration in his face. "Pearl, how old are you?" he asked suddenly

"I am fifteen," she answered. (Continued next week)

February 8.

# -----The Up ........... Surrender

For I came do do mine own Him that sent m

it seems natur it seems natur ourselves first, of and dear to us n alter that. Ther so self cente get beyond ou d. are our liv art unhappy, w rue happiness c

The man and whose affections a family circles-th such-are also liv They are like flo shade that can ne God's love means that cause the s moved and they in the full light

Christ came to among us in ore show us how we s ever, did more the example of His constrained live. He to est possible words a restricted fire, about everywhere sick and the needy found healing. S found healing. S inspiration to live

inspiration to live the children were arms and He love That is the life we should live. Li here to do our o will for us. He lose our lives in so shall find them age of the best that is so it will be giv Good measure, protogether, and runn give unto us. He we should love our selves and that ou who may be in nee We are to be k

les by the manner Our lives are to be they Lear in good very simple tests. apply them to our apply them every will soon find that as we give unto ot unto us again. As in the spirit of un showered back on As we say kind wo words are spoken to thus we find how t the same measure ers it is measured Luke 6.38.)

If we are unha we are too self cen to love God better grace to carry our matter what they n power and a new in our hearts. It humble or how exal may be, whether we King David we ca true contentment, doing the will of o in heaven. Troub and empty pleasure er lines of endeavor

# Aid for the

Fainting is of fr in days of torrid w ly occurs in place mosphere is close of

February 8, io12

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it seems natural for us to think of ourselves first, of those who are near and dear to us next and of all others after that. There are some of us who are so self centered we find it hard to get beyond ourselves. Narrow, in-deed, are our lives, and for the most part unhappy, when this is the case. True happiness can never long abide

The man and the woman, also, whose affections are bounded by their family circles-there are thousands of namy circles—there are thousands of such—are also living restricted lives. They are like flowers growing in the shade that can never know what true growth and delevopment is, and what God's love means until the obstacles that cause the shade have been re-moved and they are enabled to bask in the full light and warmth of the

Christ came to the earth and dwelt among us in order that He might show us how we should live. He, howshow us how we should live. He, how ever, did more than show us by the example of His own life, how we should live. He tokl us in the plain-est possible words. His life was not a restricted life. Instead, He went about everywhere observed good. The skie and the needy eame to Him and found healing. Since sought Him and received forgiveness and a new insylvation to live better lives. Lif-edultage the children were received into His That is the life that He desires that

we should live. Like Him, we are not here to do our own will but God's will for us. He told us that as we lose our lives in service for others we shall find them again; that as we give so it his control of the best that is in us unto others so it will be given unto us again. Good measure, pressed down, shaken together, and running over shall men give unto us. He told us, also, that we should love our neighbors as ourselves and that our neighbors are all who may be in need.

We are to be known as His disciby the manner in which we love Our lives are to be judged by the fruit they lear in good deeds. These are very simple tests. Each of us may apply them to ourselves. We should apply them every day. As we do we apply them every day. As we do we will soon find that just in proportion as we give unto others God is giving unto us again. As we do kind deeda in the spirit of unselfish love, love is showered back on us from all sides. As we say kind words to other, kind words are support to us exerts, kind the same measure we mete unto others it is measured to us again. (St. Luke 6.38.)

If we are unhappy it is because If we are unmappy it is because we are too self centered. As we learn to love God better He will give us grace to carry our troubles lightly, no grace to carry our troubles lightly, no matter what they may be, and a new power and a new joy will spring up in our hearts. It matters not how humble or how exalted our lot in life may be, whether we are a Lazarus or a King David we can find true peace, a King David we can and true peace, true contentment, true joy only in doing the will of our Father Who is in heaven. Trouble, dissatisfaction, and empty pleasures lie along all oth-er lines of endeavor.—I.H.N.

## Aid for the Fainting

very simple "first aid" method of treating fainting: "Take the person out into the fresh air, lay him fat on the back, with the head lower than the feet. This can be done by grasping the feet and hold-ing the body so that the head hangs down, or take an ordinary straight back chair, turn it ever so that the back other, an angle with the floor; and place the person on the back of the chair with the head hanging down. This position with the head hanging down favors the flow of the the

hanging down ravors the now of the blood back to the brain. "All tight clothing about the neck and waist should be loosened. Smelling salts or aromatic spirits of am-monia applied to the nostrils and cold water sprinkled on the face, chest and hands help to restore connionenone

# Father's Influence in the Family

Miss Alice A. Ferguson, York Co. Ont. We hear and read so much of the mother's influence over her family, that often a father's influence is over looked, and fathers

looked, and fathers h a ve apparently taken for granted that it is the mo-ther's duty to bring up the family in the way it should go, and have permitted the responsibility to rest upon her. We have mother's magazines for mo thers, but who ever heard of a father's magazine for fathers? And **Miss Ferguson** 

And et a father's precept and example stablishes a precedent for coming generations to follow. What father establishes a precedent for coming generations to follow. What father thought or said, or did or did not becomes a rule ofttimes for his sons and daughters. A father's example and influence is, therefore, of paraand influence is, incretore, or para-mount importance. The responsibili-ties of fatherhood are weighty, and should be taken seriously. He may make or mar the future usefulness of

his children. Therefore, the subject is well worthy of our consideration. The tather's first parental duty is The rather's first parental duty is to provide for the needs of his family. A father who is able to do so should do so. He who will not is beneath our consideration; his in-fluence for good is nil. "Everybody fluence for good is nil. "Everybody works but father" should not be a truism except in cases of invalidism words are spoken to us in return. And or superannuation. But the ideal fa-thus we find how true it is that with ther makes the most of his abilities to earn not only necessities but luxuries for his family. His occu-pation, whether by use of brain or brawn, is honest and ennobling.

## ALL EQUAL AS FATHERS

ALL BOUAL AS PATHERS I remember once hearing three schoolyirls discussing the relative virtues of their respective fathers. One declared that her father was the greatest because he had once been a member of Parliament. A second member of the schore was just member of Parliament. A second maintained that her father was just as great, because he was a justice of the peace. The third tearfully and the peace. The third tertfully and indignantly protested that her father was just as great as either of the others. And true: of the three men, the honest farmer was held in as high esteem as the others. It was not the position the man occupied, but the man himself who counted with his daughter After work comes pleasure and the

The Upward Look Surrendering our Wills For I came down from heaven, not do mine own will, but the will film that sent me.-St. John 630. A lady once told me that her husband A lady once told me that her husband rarely went from home but he brought back fruit or candy or fancy biscuits or anything out of the com-mon food lines, maintaining as he did so that as he did not use tobacco or liquor, he brought his treat home to share with his family. You may rest assured that that father never ied, and we chome when he returntailed of a welcome when he return-ed, and you can see the eager de-light of the young people and the shining eyes of his wife as together they shared the good things.

# PLEASURE OF THE POOR

PLEASURE OF THE FOOR A poor farmer, who can give his family few pleasures or luxuries, hitches his team to a light wagon, and takes his wife and family around the block for a drive. It is a rest for his wife and a delight to the young sters. If father should take a jound alone, as he is lawfully entitled to do he can share it with his family afterwards by telling them of all that was wards by telling them of all that was interesting, pointing out his route, and letting them see what he saw, and they enjoy it, and thus the chil-dren and father become more intimate

father influences largely the literature that is read in the home. The publications for which he sub scribes give their tone to the intel lectual bent of the family. Good clean publications, with helpful sugclean publications, with helpful sug-gestions and high standards for morality, all help to shape the future lives of the readers. Father reads and discusses the topics of the day and discusses the topics of the day with the boys and girls. They read and enjoy and benefit intellectually and morally by it. If the father can afford books, adding with care to his library and weeding out any of a questionable character, he knows that his family has healthy reading. and this tends to healthy morals. THEY DO AS YOU DO

The manner in which a father treats his wife and other women will make a lasting impression on the minds of his children. If there is in his manner a want of respect, a thoughtlessness, or in speaking of women in general he speaks slurring or in speaking of women in general he speaks slurring-ly, he need not wonder at the ruin he is preparing for his children. If the father errs an inch from the path of chastity, need we wonder if his sons take an ell? While, if he shows respectful love for his wife and homours his mother, he is teaching one of the greatest and purest lessons to his family. The father influences largely the

The lather influences largely the future occupations of his boys and girls. He carefully notes their talents in different directions, and encourages and assists along the lines he considers best, encouraging and stimulating and giving wise directions direction

## THEY WILL CALL HIM BLESSED

A father who embodies the true spirit of fatherhood is one for whom his family may rise up and call blessed. The father's influence should biessed. Ine tather's influence should be such that while he has authority to rebuke or chastize, yet he will be held in lasting respect and love by his children. He should be his son's first confidant and his daughter's best chum.

best chum. A father who asks the grace before meat and conducts family worship with reverence and evident enjoy-ment sets an example to his sons, who see that it is manly to participate or event values on evercises and a Fainting is of frequence occurrence with his daughter in days of torrid weather. It usual-Matter work comes pleasure, and the worky example to follow. A nation is possible to the such that mosphere is close or the air impure, he can share with his family. A man in the comes is close or the second the such that mosphere is close or the air impure, he can share with his family. A man in the comes is close or the second the such that is close or the second the second the second the second the second the interval.



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W. W. OOBY. Deputy of the Minister of the Interior. N. B.-Unautherized publication of this advertisement will not be paid for.

# FARM AND DAIRY

# Why School Teachers Leave

Why School Teachers Leave Why is it so hard to keep school teachers in Ontario? This seems to be a difficulty both in the country and in city, but particularly in the country districts. I have heard them discuss the subject and fairly scratch their hair out to determine projudice against the rural sections of Ontario. of Ontario.

Of course a hired man never pretends to give his boss any advice on such subjects as this, but some of us could use a little horse sense and get at the root of the trouble. Now, do you suppose that if I were to go out and spend several years and quite a few hundred dollars to acquire such an education as a school teacher must have that 1 would be willing to work for wages that are little better than for wages that are little better than those received by an ordinary ditch digger who cannot sign his own name? And suppose I got a good of-fer to 'go West,' don't you suppose I would take it? Here lies the whole trouble, as I see it. Too many of our school trustees and, of course, farmers as a whole, are looking for expert services that require years of training to measure up to and expect to pay on the same basis that they would pay for hired men.

I have known quite a few young dies who trained themselves in our normal schools to be teachers. The most of them who are not married are most of them who are not marries are now teaching in Western Canada, and I never heard them give more than one reason for going--"more money." ne reason for going--'more money." The solution of the school teacher The solution of the school teacher problem lies in shelling out money more likerally for expert services. That's the whole thing.--"'Another Hired Man."

# ...

False Ideas about Bathing

In many homes there is a mintake idea that if any member of the fam-ily is suffering from the effects of a cold, bathing is very injurious. In some homes children are not bathed for three or more weeks at a time in midwinter, because there is grave fare that the operation will result in dis-aster. aster

often the undergarments are not removed for several weeks for the same reason, and every precaution re-sulting from this wrong impression is taken to keep the little folks healthy. and often grown people are under the same restrictions, so that the air of closely shut houses—and that class of people fear fresh air as much as water in winter—is far from pleas-ant to poses used to fresh, odorless at a combars. atmosphere.

OLEANLINESS VS. DISEASE It may take some time for the idea that cleanliness keeps away disease, instead of inviting it, to penetrate the minds of these persons, but in the end it is bound to come. The closely shut house is a survival of the old draughty houses, when no matter how draughty houses, when no matter how many cracks wore closed there was still plenty of fresh air in the rooms, and the no-bathing comes from the same period. No doubt it was a per-lious proceeding to bathe a croupy child in a log house before a fireplace that scorched the face and chilled the back, but nowadays in comfortable homes the danger is that we will not

have enough air and cleanliness. The first thing the trained nurse does in taking charge of a patient is to administer a warm, refreshing bath, and get the tired body into fresh, sweet garments; so it is easy fresh, sweet garments; so it is easy both young an to take that lesson without paying writing to S. a nurse for the information. A tired, tretful, sickly little invalid will fail nuties, Ottawa into sweet, refreshing sleep after a free of postage.

OUR HOME CLUB warm bath, and be ten times more able to throw off disease than if per-mitted to go unwashed for fear of harm.

BATHE AT NEDTIME The Lathing should always be done at bedtime with plenty of hot, soapy water, in a warm room, and then the person should go to bed at once. In our comfortable, well warmed homes of the present, winter bathing is al-most as enjoyable as summer bathing, most as enjoyable as summer owning, and certainly more necessary, for in summer perspiration and friction help rid the skin of its poisons, while in winter the heavy garments retard Nature's work.

By all means get away from th By all means get away from the false notion that cleanliness is all right in summer and dangerous in winter. It is all right all the time and highly necessary to health and comfort.—Indiana Farmer.

# ...

# A Woman Endorses the Wheel Hoe

The best tool I use is a Planet Jr. The best tool I use is a Finite J., single-wheel hoe. I am a woman farmer, and have all my work to do myself, but I have generally raised a large garden every year. Until May, 1910, I heed, finger-picked and went down on my knees in the hot sun trydown on my knees in the not sun try-ing to keep my garden clean. Ice, trying, that was all, for in this damp climate it cannot be done with a common hoe. But last year, after plant-ing about one and one-half acres of den, all in nice long rows, I decidgarden, all in nice long rows, I decid-ed I could never keep up with my work and tend the garden, so I bought a plain single-wheel hoe, simp-ly with two hoes, three eultivator teeth and one dand' title plow. It is just the thing to lay off those long rows with this year, too. I went over that whole garden with the hoe first just as goon as the inv

I went over that whole gardem with the hoe first, just as soon as the tiny weeds began to show, then in about a week I went over it again, this time with the three cultivator teeth, and after that I never found any weeds. But I used the hoes or teeth every week just the same, and my gardem was the talk of everyone who awe it. I paid \$5.75 for \$00 d Apple Tree," in the cool shade, and peeled and dried \$6.80 worth of apples the and dried \$6.80 worth of apples while and dried \$0.30 worth of apples while I watched my garden grow, instead of digging at those weeds as I had done all my life before.—Mrs. Jessie Boughton, in Farm and Fireside.

## ...

# A Sure Thing in Old Age

All Canadian Government Annui-ties are payable for life, no matter how long the annuitant may live, but the guaranteed annuity, that is an annuity which for a slightly increased payment is guaranteed to be paid for 5, 10, 15, or 20 years 5, 10, 15, or 20 years as may be de-sired should the annuitant die before the period mentioned had expired, enables a purchaser to provide for the contingency that someone may be de-pendent upon him at the time the annuity falls due. For example, a annuity falls due. For example, a man 75 years of age recently purchas-ed an immediate annuity of \$300 to be guaranteed for ten years for which he paid \$2,643. If he should die at, asy, 80, the \$300 a year will be paid to his heirs for the remaining five years but in any case he will receive the avanitie as here as he lives about the annuity as long as he lives should he live to be one hundred or more.

This means in other words that the sum of \$3,000 is guaranteed to be sum of \$3,000 is guaranteed to be paid whether he lives or dies. The \$2,643 had been invested at 6 per cent, and was yielding an income of \$105.65; so that his income is now almost double that which he formerly received. Literature fully explicible the annuities scheme as applicable to briting to S. T. Bastedo, Superin-tendent of Canadian Government An-nuities, Ottawa, to whom letters go free of postage.

# February 8, 1012.

# Striking the Boss

Editor, Farm and Dairy,-There is more truth than poetry in the verse 1 am herewith sending you. It may afford food for reflection to not a few. D. McDonald, Hastings Co., Ont.

For many long years without wages, The farmer's wife, Hannah, had worked And never a care nor a burden The stanch, faithful creature had shirked.

shirked. She went once on Sunday to "meetin'," In rusty old "alpaca" dress; The only time out of the seven Long days of the week she could rest.

Up long ere the sun began shining; Working after the rest were abed; What wonder was it the poor woman Wished daily, aimcet, she were dead? She washed, and she ironed and mended, And baked, churned and cared for each

hon; Then hoed in the garden for pastime-For "farm-work was hard on the men!"

No pictures, nor music, nor pleasure; And neither a paper nor book;

And neither a paper nor book; With never a penny of money, Not even the wage of a cook. Not a call from the cow "father" gave her;

her; Not one chick from the scores she had raised; 'o "right" to the least thing about her, But to drudge to the end of her days.

Each Saturday Natham, her husband, Arrayed in a clean suit of brown, Took crocks of her sweet, golden hutter, And baskets of eggs into town. Then alwars, as he was just starting. He called to his patient old wife: "I hope ye don't want nothin' this time. To pester me out of my life."

Well! 'twas only a stray scrap of paper Blew into the door-yard one day, Telling how all the women at "Jones's" "Struck the boss" for less hours and

more pay. Like a flash from a clear sky at midday, An earthquake at caim summer's more. Her soul was awakened within her, And she thought of her past self with

There's them wimmen that have all

There's them wimmen that have a their evenin's. And Sundays, and half-holidays. And free to spend all of their wages, Then strikin' the boss for a raise-While I have been drudgin' and savin For Nathan to spend or to hoard, With never a bit of my seminir's. Jest only my bed and my board!"

This was Friday; next morning ar

Chis was rriday; next and Nathan, Nathan, To get in his wagon, turned round, iomething struck him—a club or cyclone P-

And he measured his length on the

And he measured his engen on as ground. When he raised himself up on his elbow. His good wife knelt down by his side And sobbed, "I jest hated to do it--I'd e'en a'most rather have died."

"Twe worked for ye stiddy and faithful. With never a cont in return: And-Nathan-Jiest had to strike ye Por a share in the money I eerr." In his breast rose a grin sense of humor A feeling of shame, too, beside, aske looked on the shaby, best figure. And remembered young Hannah, his bride.

He climbed in the wagon, she followed: And when they got down to the store. To the money for eggs and for butter, He added a goodly sum more. And said, "There, now, get ye some

And said, "There, now, get ye fixin's, A dress, and a bunnit to wear, I guess I have been rather keeriese 'Bout givin' ye all of your share."

when, on a bright Sunday morning.

And when, on a bright Sunday morning. Attired in a new with of gray. She threw her arms 'round him and kissed him-The first time in many a day-fle axid, in a voice that would tremble. With thoughta he was helples to speck 'Bay, ma, if it makes ye fool that way, 'Ye can go on a strike every week.'

...

Do not exhaust yourself and use t Do not exhaus yours, and up of all your nervous energy over petty cares. Remember every time you loss control of your nerves that you take a fresh step down the path that leads to premature old age.

# February 8

# Games

Games fill a Games fill a home life. A hings are put ounger member r around the



ply you Onward Mfg.

> Farr Domesti Can be had o Salva Immigration an Head Office, 22 Our men have bring out the best care in the placing

Sold Over in Fi WE: FOR In areas to from 160 acres

ed on or near Best Whe

Stock -Dist SASKAT

ALB 450,000 acres PRICE

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# Games in the Home

Games fill an important place in home life. As soon as the supper things are put away it is nice for the younger members of a family to gath-



ing games. It strengthens home ties ing games. It strengthens home ties. Since the players are of different ages the older ones may have to ex-creise a little patience; but patience resembles muscle in that it develops with exercise. The rules of any game with exercise. The rules of any game should be thoroughly understood, and should be thoroughly understood, and then adhered to strictly and without dispute. There is nothing him of the play. Perhaps father and mother will occasionally join in the game and the whole family spirit will be in-proved by the bit of recression. What games to play is an individ-ual question. Checkers and dominoes will ever hold their well deserved

What games to play is an individ-ual question. Checkers and dominose will ever hold their well deduced places. There are a number of what are classed as "educational games" which are instructive as well as on-tertaining. They include arithmetic, history, geography and literature, all being quite similar to authors. The strong facture of these games is that dates and facts are learned almost without knowing it. without knowing it.

These home games may be used as These home games may be used as an evening's entertainment for small company of young people in the following maner. Provide a number of tables and each with a different game. The tables should be numbered 1, 5, 7, etc., and four persons should number one. Mean the atmission and the sense table provide tables and the number of tables and the sense table given and the ones at each table with winners at table. No. 1 go to the low et table. est table .- Western Farmer.

## Household Hints

Onion skins should be boiled in soup, as they make the liquor a nice

Sweet orange peel, if dried and powdered, makes an excellent flavor-ing for cakes and puddings.

When stewing prunes add a handful of stoned raisins to every pound of prunes. This is a great improvement on the ordinary method.

Delicate cretonnes may be washed in a lather made of Castile soap and warm water. This soap contains noth-ing which will injure the colors.

Badly stained lamp chimneys may be cleaned by rubbing with methylat-ed spirit. If the stain be very ob-stinate, add a little whiting.

Boots that have become hard from wearing in show or wet weather can be softened by being rubbed with mutton fat.

To keep carpets fresh looking, wipe them over once a month with a cloth wrung out in ammonia and water. This must be done after sweeping.

After washing a teapot dry thor-oughly and leave the lid off so that air may enter. Remember it is impos-sible to dry the spout, and if you close the pot tightly it will very likely

The keep lemons hang them up sepa-rately, so that they do not come into contact with anything. This prevents the juice remaining in one place, contact with anything. This prevents the juice remaining in one place, which is certain to decay the fruit. A hair-ribbon should never be fromed. Make a warm lather, waah the hair-ribbon and rinse it in warm water, then wind it round a glass bot-new when dry, it will look as good as new

New. When ironing, place a newspaper between the sheets of the ironing cloth. This will prevent the article Leing ironed from curling up, as is very often the case if the newspaper

Slices of cold pork, seasoned with pepper and salt, fried on both sides, and served with apple sauce, will make a tasty-dish. Save the water that meat, fish,

haricot beans, or rice have been boiled in. It contains nourishment, and is an excellent foundation for

To clean fruit jars that have been exposed to dust and dist, possibly left open, just throw into the samal handful of sand and a little samal water. Shake a moment and you will be aurprised at the result. They come out at clean as pew. A never failing rule to follow in placing sleevers is to measure one-ineh tack of the shoulder seam, mea-sure one-half of the arm hole, and place the underseam of sleeve at this point.

Ingredients-1 tin of oysters contain-ing about a quart, 1 head of celery, 1 tablespoonful of oil, 1 small tea-spoonful of salt, made mustard and spoonful of sait, made mustard and pepper. 3 dessertspoonfuls of cidor vinegar, a pinch of white sugar. Strain off the liquor from the oysters and cut them up (do not chop them), mince the celevy and blend with the oysters. Mix the remaining incre-dicts mutica in the visual incredients, putting in the viegar last, then pour over the celery and oysters. Stir well, and serve directly, as this salad will not keep long. SODA CAKE

Ingredients -1 lb. of flour, 3 oz. of butter, 8 oz. of sugar, ½ pt. of milk, 3 eggs, ¼ lb. of currants; 1 teaspoonful of carbonate of soda, grate quarter of a nutmeg. Beat the whole well and lightly together. Remember that the soda should only be stirred into the ingredients just before put-ting it (in a well buttered pan) into the oven. Bake it for about an hour and a quarter

## RICE CAKES

RUE CARES Ingredients-S oz. of rice flour, 4 oz. of white sugar, 4 oz. of butter, 3 eggs. Work the butter to a creamy substance, add the sugar and flour, and mix in the well whisked eggs. Roll upon pastry Loard and shape into cakes with a cake cutter. Bake in a slow oven COCOANUT PIR

Incredients-1 cup of grated cocoa-nut,  $K_p$  b, of milt, 2 crackers, 5 eggs, butter, sait, rind of  $K_j$  lemon, sugar if desired, puff crust. Make a nice puff crust. line a dish and bake, when done, set a lide to col, soak the co-coanut in the milk, pound the crack-ers, well whick the eggs, and grate the rind of the half lemon. Mix all together, adding a little sait, sugar and butter. When well mixed place in the pie dish, and put in the over to alightly brown. RAPHEREN FUDDING RASPBERRY PUDDING

This will prevent the articles being ironed from curing up, as is not employed.
 To nex-crank LACE coild and the nowspaper is not employed.
 To nex-crank LACE coild and the not cogether and sently rub this mixture with a fact of the lemon gratement of the should be stretched out on a bard surface. Best out the mixture of a stretched out on a bard surface. Best out the mixture is a stretched out on a bard surface. Best out the mixture a curiful of preserved reamber and kee. When done spread over the top a curiful of preserved make and heans abould be put into holling water. All lemon. Return it to the over to collected with ash-boll peas with sugar; with rich crasm.



(19)

The new blouse that is closed at the front is such a comfortable one that every woman welcomes w design in a new made in that way. Here is a model that is chic in the e trame. It in trame. treme. It in-cludes the new kimono sleeves that are sewed to big arm-holes and that are shapely beneath or without the stock collection with a re-bunch or without the stock collection without or without the stock collection with the stock collection of the medium size with the stock collection of the stock of the s

or without the stock collar. For the medium size will be required 258 yards of material 27, 178 yards 36, 158 yards 44 inches wids with 34 yard of silk for the trimming and 74 yard of all-over lace and 78 yard of lace 7 inches wide

This pattern is cut in sizes for a 34, 36, 33, 40 and 42 bust measure.

GIRL'S ONE-PIECE DRESS, 7291

The girl's dress that is made with body portion and skirt in one is ex-ceedingly smart ceedingly smart and always pretty and becoming. This one is closed at the left of the front. It is very easy for the girl herself to adjust and it can be worn over any preferred

over any preferred guinge. For the 10 year size will be re-quired 414 yards of material 27 or 56, 2.58 yards 44 inches wide with 54 yard 27 inches wide and 54 yard of broadcloth or to edge collar and 41-2 yards of banding to edge collar and

This pattern is cut in sizes from 8 to

12 years of age.

TWO-PIECE SKIRT FOR MISSES AND SMALL WOMEN, 7321

MMEN, 7321 The two piece skirt is a pro-nounced favorite. It gives the seam-leas effect at front and back that is so much liked, al-most every adevery advantage to com-mend it. This one can be made with pointed extensions on the front that lap onto the back to form a novel trimming or plain,

of material 36, 44 or 52 inches wide, width of skirt at lower edge is 2 yards for 15-year size year size

The pattern is cut in sizes for misses of 14, 16 and 18 years of age.

The best place to keep patches is in a drawer that may be taken out and runmaged in easily if, however, you must keep them in a bag, pin on the outside samples of the goods con-tained in it. This will save many a fruitless search and piece of bad tem-per, for there is nothing more an-noying than to turn out bag after bag of pieces and spend precious time searching in vain.



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# FARM AND DAIRY

February 8, 1912.



(20)

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# Farming

# has become a specialized business

It's no longer a "hit-or-miss" occupation, where "any old way" is good enough. Farmers are buying pianos and automobiles as never before. They're *living* as well as *working*.

The farmer has learned that it *pays* to employ progressive methods. That's why he is ever ready to receive helpful suggestions for improving his crops, his land and his home. It's also the reason that more than fifty thousand Canadian farmers are enthusiastic about our handsome book,

# "What the Farmer Can Do With Concrete"

It isn't a catalogue, nor an argument for you to buy something. It is clearlywritten, interesting, profusely illustrated. It describes the various uses to which concrete can be put on the farm. Not theories, but facts, based on the *actual experience* of farmers all over the continent. It is the most complete book on the subject ever published, fulfilling the purpose behind it, which is to help the farmer take advantage of concrete's possibilities. The list of subjects covers every conceivable use for concrete on the farm. The book's actual value to you will far exceed the list price of fifty cents, but if you will send us your name and address at once we'll be glad to

# Send it to You Absolutely Free

Send a post card for it--- do it to-day. The book will be sent by return mail.





February 8, 10

# HOLS

AVONDALE FAR

We offer bull only out of tested dams. Johanna Colantha G son of Colantha Joh tine Korndyke, and year-old dam.

Also HORN DORSET SHIRE PIGS. Address all correspondent H. LORNE LO

Brackwil

AUCTIONEER de Bolateins and selling pold sales from the An My experience is up ALEGER. ALGONOUL

Lyndale H Offers two, young by 1910, one of them from of Brightest Canary of A 20.35 lb. yearling veld De Kel.

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FERNDALE ST

Clydesdale Horses an Por sale-Four Bulls, by Korndyke. King S closely related to Pont elred two 37-lb. o Pont ired two 37-lb. o Pont Also, 20 Grade Cows. January: 15 Grade Hei old. bred to freshen in FFERHELLER BROS., Bell 'Phone.

LAKESIDE DAIRY ANI Offers two bull calves, one 1 month old. Boo bull calves for the spri

w females. F. F. BELL, BRITTA Ottawa Bell Phone.

KNIGHTON HOLSTEINS and Holsteins from two to We have several of son amilies. Four-year-olds giving yorkshires of either se ree.

C. KETTLE, WIL

GETTING Are you getting yours to come for them. Do lik beceders do : Go beauty of this med ravertising rates are wit you many buyers. Space the you many buy

Clydesda

with white points. W. J. Co:

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# HOLSTEINS AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

We offer bull calves, all ages, and all out of tested dame. One is a son of Sir Johanna Golantha Gladi, being a grano on of Golantha Johanna Lad and Pon-tise Korndyke, and from a 25 lb. three-var-old dam. Also HORN DORSET SHEEP and YORK

Address all correspondence to

H. LORNE LOGAN, Manager

Brockville, Oni.

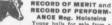
AUCTIONEER My lifetime has been Boated to Breeding Boated and selling Dairy Ostile. Have wild sales from the Atlantic to the Pacific. My experience is up to you.-ROBERT E. HARGER. ALGONQUIN, ILL.

# Lyndale Holsteins

Offers two. young bulls born September, 90, one of them from a tested daughter f Brightest Canary and sired by a son f a 20.35 hb. yearling daughter of Henger-eld De Kol.

BROWN BROS. - LYN, ONT

### We Maye RECORD OF MERIT and



ANCE Reg. Molsteins Young bulls for sale from a tew days old up to fit for service. An exceptional lot and dirt cheap. Cut rates for the next 28 days. E. C. OILBERT, PAYNE'S MILLS, ONT. Phone com. at 8t. Thomas.

RIVERSIDE Herd headed by Prince De Kol Posch; dam was cham-RIVERSIDE Herd hould by Prince Do Kel Positi dam Wachane HOLSTEINS Kondyks; the records of dam and two nearest dams on afres side sergers 22:12 hs. His dam is sider to two Works? Champion 37:16 Cows, Wene Clothible De Kol and Poniae Pol. Wene Clothible De Kol and Poniae Pol. Wene Clothible De Kol and Poniae Pol. Wene Clothible De Kol and Poniae Pol.

FERNDALE STOCK FARM Clydesdale Horses and Holstein Cattle Gycasanie Morses and Moistein Cattle For sale-Pour Bulls. IO months old, got by Korndyke, King Schillard, who is wird two 37.6 howen. Also, 30 Grade Horer, faing 2 years Junnary: 16 Grade Holerer, faing 2 years Junnary. Market BROA. MT. Eddin, OYT. Beil "Phone.

# LAKESIDE DAIRY AND STOCK FARM

offers two bull calves, one 5 months and one 1 month old. Book your order for bull calves for the spring's crop. Also for ew formales

W. F. BELL, BRITTANNIA BAY, ONT.

KNIGHTON LODGE HOLSTEINS and YORKSHIRES Holsteins from two to five years old. We have several of some of the leading

amilies. Four-year-olds giving as high as 13,000 founds of milk in one year. Yorkshires of either sex and of different

C. KETTLE, WILSONVILLE, ONT.

**GETTING TIRED**? GETTING TIRED 7 Ar you setting live of values of the set of the se



FARM AND DAIRY

Toronto, Monday, Feb, 5-The con-tinued cold weather has been miner to the farmer than his city brother a been miner to the farmer than his city brother been prices on farm produce have not been prices cities, and many are in want. The west-ern situation is not improving, and or-ders are coming in slowly. Trade com-pares quite favorably with this time has year, but there is room for much in-the state of the section of the section of the section of the spars quite favorably with this time has year, but there is room for much in-the section of the section of the section of the section of the spars quite favorably with this time has year, but there is room for much in-the section of the section of the section of the section of the spars quite favorably with the sime has the spars quite favorably with the section of the section of the section of the spars quite favorably with the sime has the spars quite favorably with the section of the section of the section of the spars quite favorably with the section of the section of the section of the spars quite favorably with the section of the section of the section of the spars quite favorably with the section of the spars quite favorably with the section of the section

praction but there is room for reservoices year but there is normarket dairy produces On the produce market dairy produces all lines of grain are strong and most lines have advanced sharply. Beef cal-tile are steady. Small meat are stronger, WHEAT WHEAT

the are strength, built many areas at a strength of the streng not show any great improvement. Only small shipments find their way out of the

# MISCELLANEOUS

WANTED-Volumes Nos. 2, 3, 5, 6, 8, Hol, stein-Friedian Herd Book; also Rabcock Tester.-Box 314, Tillsonburg, Ont.

HILLSIDE YORKSHIRES FOR SALE Choice young sows and boars, three months old. Bred from modern type bacon stock. Pedigrees registered and express prid. Prices right-Alex. A. Watt, Brucefield, Ont.

# HOLSTEINS

A \$25.00 REWARD

A \$28.00 REWAPD To anyone who buys the Holatein hull calf that I am offering, ready for sarries, if Lacy Derits work produce 15,00 lbs, of milk in R.O.P. in 192. He was sired by a son of Prince Balle DeKol, whose dam Miphe Grove Belle as a Spear-old well group in builter in 7 days. She is well group in builter in 7 days. She is timped to the same set of the same set of the same tion invited.

ELIAS RUBY, R. R. No. 5, Tavistock, Ont The first \$50 cheque will buy him.

The first 800 cheque will buy him. **Software** Visage and Software and

# FOR HOLSTEIN BULL CALVES

sale mucoitin Duck CALTCO Boll call, hours Tah, i whose four near-est dama average at hours of butter in to daw. Another born May 60 Utiler in to cow in Canada of her are to make bills of butter in 7 daws. Buil call born Jao. daws of 148 the butter at four Jao. and with official of dam of number 2 and with official be, butter in 7 days. Also two-rearold stock built in 7 days. Also Invid Carabit I vamment for Carbo David Caughell, Yarmouth Centre. Ont.

High Tosting Mister remnuin Centre ont. High Tosting Mister at head of Lynden Hoisteins Nerd Bar 577 Ibs. of butter in 7 days testing the first of the state of the state in a state of the state of the state ting in Canada. Bay a buil to head your herd, a full bin from a 738 ib str. Alon a on of the per cent, fat, a state of the state the per cent of the state of the state ting in Canada of the state ting in

# POTATOES AND BEANS

POTATOES AND BEANS Potatoes rule at last week's high level and are hard to get that. Ontario stock is quoted at \$1.50 km level and \$1.70 out of store. Bullarace are quoted at \$1.50 and \$1.80 km store price for Ontario is \$1.80 to \$1.90 for primes and \$2.35 to \$2.30 for hand

FRUIT AND VEGETABLES FRUIT AND VEGETABLES The local market for applies is steady. Quotations are: Greenings, No. 1, 3135 a barrel: No. 2, 32375 Badwins, No. 1, 83.60; No. 2, 33; conting varieties, 32.60 to 53. Quotations on vegetables are: On-ions, 32.65 per 75 lbs.; cabbage, 82.60 a barrel. On the retail market apples are 82.60 to 84.60 a barrel, and cabbage, 500 to 60 a davog.

EGGS AND POULTRY

10 mea domen. The unusual continuance of cold weath-er haumanal continuance of cold weath-er haumanal continuance of cold weath-real and the second se

geese, 15c to 16c. DAIRY PRODUCE

Freeee, ize to ite. Three seems no limit to the price which hutter seems no limit to the price of the threatened New Zealm price of the threatened New Zealm price of the set of the price of the price of the set of the price of the price of the set of the price of the price of the price is 30 to 376 for beat dary. The country, That held for local demand



# AYRSHIRE BULLS

AYRSHIRE BULLS Two Artl, 1911, bulls of tholcost breeding and individuality, from Re-source of the December is the December i

# AYRSHIRES

(21)

149

SUNNYSIDE AVPSHIDES

SUNNYSIDE AYRSHIRES. Imported and home bred, are of the choicest of and the bred, are of the choicest type and have young buils drogs production. "Hitke young buils drogs production." Nether "Hall Goodshired attained to Nether "Hall Goodshired attained and for sale. Write or come and eee. J. W. LOGAN, Howick Station, Que.

(Phone in house.)

Burn Brae has for sale Two good Bull Calves,10 months old, from good tested heavy milking cows. Also a very fine one, two months old, out of Fanny, 34098, that give 12.13 pounds of 4.4 per cent. The second second ber in her official test. Wie in Decem-herly all white dark brown imarked, JOSEPH HUDSON & SON, LVN, ONT.

# Avrshires & Yorkshires

For sale, Ayrehires all args, including three buils fit for service, all bred from deep milking stock. Yorkshire pigs all ages. We are now booking orders for pigs to be shipped in March, April and May Apply to Hon. W. Owens, Proprietor.

RIVER SIDE FARM, MONTEBELLO, QUE. Robert Stinton, Manager

AYRSHIRES AND YORKSHIRES COWE buffers and the second secon cows, heifers and heifer calves. A few yo sows and boars on hand. Write for prices

\$23: shorts, 525; Ontario bran, \$25 to \$24; shorts, \$27. Prices for hay have dropped sourceshat. The supply continues light, but the high price ashed caused an equally small do-mand. Dealers now quote No. 1 hay as \$5.50 to \$15; No. 2, \$15.36 to \$515; No. 3, \$10.50 to \$11; baled straw, \$5.50 to \$51; Ro. all price ashed cre: No. 1, \$30 to \$53; clower and mixed hay, \$17 to \$19; straw,bundled, \$45 to \$19; ALEX. HUME & CO. -Menie, Ont. Hoard's Station, G. T. R.

# CITY VIEW AYRSHIRES.

R. O. P. cows and two-ysarold heifers for sale; one yearling bull and a fine lot of 1911 bull calves. Prices reasonable. Write or phone. JAMES BEGG, R. R. No. I, St. Thomas.

# THE SPRINCBANK HERD OF AYRSHIRES Contain more World's Champion milk and butter producers than any other herd in America. A few choice buil caives from record breaking dams for sale at reason-able prices. Address

A. S. TURNER & SON, Ryckman's Corners, Ont.

3 miles south of Hamilton.

# HILLCROFT AYRSHIRES

# Are Producers

A 9 mos. old Bull Calf from a Record of Performance cow. Fit to head any herd. Will price right for quick sale.

W. E. TUMMON. CROOKSTON P.O. L. D. Phone.

# Ayrshires

World's Champion herd for milk and production. Some young bulls and bull caires, all from R.O.P. cows for sale. A grandson of Primrose of Tanglewyld in the lot. Address

WOODDISSE BROS., Tanglewyld Parm ROTWSAT, ONTAPIO

# **CHOICE AYRSHIRES** Are Bred at "OHERRY BANK"

A few young bull calves for sale. Write for prices.

P. D. McARTHUR, North Georgetown Howiek Station on G. T. Ry 0110.

# **Burnside Ayrshires** Winners in the show ring and dairy

Animals of both sexes. Imported or Canadian bred, for sale. Long distance phone in house.

R. R. NESS, HOWICK, OUE.

# LAKESIDE AYRSHIRES

We have a number of fine young bulls of different ages, all sired by our im-ported bull and the majority of them from dams entered or qualified for the record of performance. To make room for the winter we are prepared to offer these at a timolity prices.

LAKESIDE FARM, PHILIPSBURG, QUE REO. H. MONTGOMERY, Prop 164 St James St., Montrea

egistered Canadian-bred Clydesdale Stallion, 4 years old. Nice field brown in or with white points. Sire Montrave Matchless; dam, Queen of Roses. Apply,

W. J. Cox, Box 75; Peterboro, Ont.

**Clydesdale Stallion For Sale** 

150 (22)

# HOLSTEINS

# Summer Hill Holsteins

Present offering: 15 years in the section of the se on the farm.

Trains met when advised. Bell ph D. C. FLATT & SON HAMILTON, ONT.

# FOR HOLSTEIN BULLS

Fit For Service, from dams with large ALSO BULL CALVES

**RICHARD CLARKE** Henfryn, Ont.

# Son Evergreen March For

The HOLSTEIN COW that last December completed the Wenderfal Record of 26,107,5 Los. Milk and 1,083,96 Lbs. Botter in one year. Milked 110! Lbs. Milk in one day. This buil, Sir Rey Dekel, S302, and the whole herd of pure bred Holstein Cows and

whole herd of pure bred Holstein Cows and Heifers will be sold privately. Herd consists of 12 cows, 15 heifer calves and 2 buil calves. Bo of the cows are bred to this great bull. Some of the calves are from 63 and 63 h. cows. Wo have bought a fruit and vegetable farm. Write at one or come and see the stock.

MacLean Brothers, SMITHS FALLS, ONT Roy 786

Register HOLSTEIN CATTLE THOUSTEIN CATTLE The Greatest Dairy Breed SEND FOR FREE ILLUSTRATED BOOKLETS Holstein Friesian Asso., Box 148. Battleboro Vt.

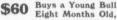
CLOVERLEAF HOLSTEINS, PRESENT OFFERING

One holfer 33 months, bread May 134, two helfers 21 months, bread May 134, two helfers 21 months, bread Sept. 1341, one holfer 19 months, resards to bread also two ball caires 4 and 7 months old, one by Sir Admiral Ormsby, the other a grandson of Johanna 4th Lad. A. E. SMITH & SON. MILLGROVE Wentworth County Phone. Parties met at Hamilton Station.

### AUCTION SALE

ACCITION SALE The Lakeriew Stock Farm will offer for sale at their barus near Bronte. Ont., on Monday, March 25th, 192, Pure Bred Hol-stein-Friesian Cattle and Registered Clydesdale Mares. Col. D. L. Perry of Columbus, Ohio, will conduct the sale, which will be held under oover, rain or shine

snine. Send in your name for catalogue and arrange to attend this sale. E. F. OSLER. BRONTE, ONT.



a son of the full sister of May Echo, the champion milk and butter cow, for yearly production, of Canada. This bull is a well marked, sturdy fellow.

E. B. MALLORY. FRANKFORD, ONT. Long Distance Phone



Lump Rock Salt, \$8,00 for ton lots, f.o.b. To nto Salt Works, 128 Adelaide St. E. Toronto, Ont. G. J. CLIFF. Manager

# FARM AND DATRY

changes hands at 171-2c for twins and 161-2c for larges SEEDS

Seedsmen are paying #13 to \$13.50 for red clover; #9 to \$11 for alskie: \$12.50 for HORES. HORES. It is difficult, and \$7.50 for timothy. HORES. It is difficult for the second second thions, as few hores are being offered on the market here. Prices are steady. Quotations: Heavy drafters. \$300 to \$25°, general purpose, \$200 to \$22°, driv-to \$200.

LIVE STOCK

Live STOCK Quality considered, estith prices are about on a par with those ruling a week acc. Outside buyers and a brisk local demand helped drevers to get rid of their offerings, and no stock was ear-lied over forming, and no stock was ear-lied over forming, and no stock was ear-lied over forming, and no stock was demand and a stock was ear-lied over in that part of the stores sold are price is a beief in some guarters that the cal-ies than was at first amoged. Apyreven the shortage in the country is more seri-ous than was at first supposed. Anyway some farmers expect to dictate their own prices later on. Guotationa are about as follows: Butcher cattle, choice, 85.0 to 85.70; good, 85.90 to 85.25; com. to med., 85.70; to 85.75; cows, cholce, 84.75 to 85.35; com. to med., 83 to 84.65; bulls, 85.80 to 85.75; exporters, choice, 86.40 to 85.75; medium, 83.90 to 86.35; contest, 82 to 54.75; comes, 65.00 to 54.57; medium, 83.90 to 86.35; context, 82 to 54.75; comes, 65.00 to 54.57; medium, 83.90 to 56.35; context, 82 their on the sector of 54.75; conners, 82 the factor of 55.00 to 95.75; context, 82 to 54.75; context, 85 to 54.75; context, 82 the factor of 55.75; context, 82 to 54.75; context, 85 to 54.75; context, 82 to 55.75; context, 85 to 55.75; context, 82 to 55.75; context, 85 to 55.75; co

to 82.80. Choice milk cowe go at \$% to \$65; com. to med., \$%5 to \$5; grpringers, \$%0 to \$60; Sheep are in better demand. Choice lamba are quoted at \$6.50 to \$6.75; cwes, \$4 to \$4.75; bucks, and ealls, \$5 to \$3.75; calves, \$4 to \$8.50; Receipts of whice have been fair, with Scal to ab, control prockers new quoting \$6.25 to ab, or matry prockers new quoting \$6.25 to ab, or matry prockers and \$6.50 to ab.

EXPORT BUTTER AND CHEESE EXPORT BUTTER AND CHEESE Montreal, Startiar, Feb. 3.—The mar-ket for cheese is only a nominal one, as attechs are reduced to a minimum, and there are reduced to a minimum, and Great Britain. The Montreal Produce Merchanta' Association on the first day of the month stated that there were about 1500 boxes of cheese in cold storage in Montreal. There may be four or free Montreal. There may be four or free Montreal.

thousand boxes of cheese still for sale, but certainly not more than that. Advices from Great Britain indicate a slow market there, but prices are firmly maintained owing to the scarcity of sup-

plies. The market here for butter is very firm, and prices are steadily maintained at the burger of the stead of the stead of the three errors resulting at the stead at 13/12 to 34 ets. a lib., with Junes and other early grass butter at 13/12 to 33 ets. a lb. There are a few lots of fresh made wallable, but they are selling at 32 ets. but the stead of the stead of the stead wallable in the stead of the stead of the strong. The figures published by the Nontreal Produce Merchant's Association will not be anything like sufficient to strong builts of the strong of the strong of the strong of the Nontreal Produce Merchant's Association will not be anything like sufficient to will not be anything like sufficient to the strong of the there is a shipment of the strong of the there is a shipment of the strong of the there is a shipment of the strong of the there is a shipment of the strong of the there is a shipment of the strong of the there is a shipment of the strong of the there is a shipment of the strong of the strong of the there is a shipment of the strong of the there is a shipment of the strong of the str The market here for butter is very firm.

# MONTREAL HOG MARKET

MONTREAL HOG MARKET Montreal, Saturday, Feb. 5-Live hoge worn in very good demand this week, and in spite of the fact that supplies very largely increased over those available for the second second second second ferings sold at \$7.10 to \$7.25 a cert. for solceted low weighed of cars. Dressed hog prices were very firm, ab-ation 31 for Milled being quality. while county dressed were quality, while county dressed were quality. while a cert.

VALUABLE FARMERS' ACCOUNT BOOK Farm and Dairy readers should take ad-vantage of the generous offer of the Bick-

Maple Grove Stock Farm Ning Lyone Hengerveld, whee 7 nearest female ancestors have built and from 83.0 lie. to 81.75 lie. In 7 days. Among the offering are cove with records of over 17,000 lie. milk in the year made under ordinary farm conditions. If you want stock of this kind write

H. BOLLERT, TAVISTOCK, R. R. No. 5, ONTARIO.

# more Gall Cure people in our advertising columns and write for their free Farm Account Book. This book is specially signed for farm use. Farmers find Account Book. This book is specially de-signed for farm use: Farmers find it much better suited to their wants than ordinary books they get at the store. It is not merely a "lodger" or time book, but is gotten up in right form to enable de but is gotten up in right form to enable farmers to keep just such accounts as they ought to keep. It is not necessary to send postage for the Farm Account Book, Simply write the Blokmore Gall Cure Company, Box 40. Old Town, Maine, and say you would like to have it.

AVRSHIRE NEWS

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Farm and Dairy is the recognized exponent of the Dairy interests of Can-ada. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire Breeders' Association are invited to send items of interest to Ayrshire breed-ers for publication in this column.

## A SIRE FOR A GREAT HERD

Under date of Feb. ist Mr. John McKee Norwich, writes: "When on my way to New York recently to attend the annual meeting of the American Ayrshire Breeders' Association I dropped off at Hamil ers' Association I dropped off at Hamil-ton and drove out to see the magnificent herd of "utility Ayrshires" owned by A. S. Turner and son of Ryckman's Corucrs. The Messrs. Turner certainly have a herd 8. Yuriner and not nyceman s covers, The Messr. Turner certainly have a here with aplondid bargened, hig dairy cove, with aplondid bargened, hig dairy cove, with aplondid bargened, high second to have that they are producers. I had been on the lookout all full or a young buil from heavy milking stock to take his place at the head of our "Brookade" herd in an-other year or two, and I think I secured one from the Messre. Turner that should be from the Messre. Turner that should be frequent in R.O.P. with 10.172 her of springhanh-2005. She had every his 10.172 her of milk and 376 her of fat in 335 days. She has developed wonderfully since com pleting this record, and this winter has given over 70 lbs. a day in her own sta has

The calf, named "Briery King of Spri bank," is sired by their imported b The early named "Thripy King of Spring-bank," is sired by their imported built Learnessock Forest King-30,604-whose dam in Scotland has a record of 9,800 has, of milk in nine months as a fourzyr-old. A daughter of Briery of Springbank (a half-sitter to Briery King, has iust com-pyr-old and provide the spring bank (a record for milk production in the share record for milk production in the share record for milk and 50.04 lbs. of builter fat. Mr. Turner informed me that he con-tendiated holding a sele of about 70 will darkine this spring. If had ose the strength of the spring status of a synchronic driving farmer, is of a opportunity for our driving farmer of our driving farmer of a driving farmer of the spring farmer of the spring for our driving farmer of the spring fa

VALUABLE HERD OF CATTLE SOLD VALUABLE HERD OF CATTLE SOLD Mr. John B. Aronda of Basten's Grammar, has disposed of his herd of Holstoin cattle. There were with the herd of Holstoin cattle. Were calves, and they brought \$5,575.00. Were allow works to Mr. Givrona, of others were bought by Mr. and all the others were bought by Mr. and the others were bought by Mr. and the others were bought by Mr. and the others ware a three-rear-old, and at that of Herd William and the second of the second mr. and the second Mr. Arnold has leased his farm to Mr. Hubert Mailtand.

Hubert Maitland duction

### WM. THORN'S OFFERING

WM. THORN'S OFFERING Editor, Farm and Dairy. My Arshires are doing extra well. The cows are milk-ing first class. Several are still running in the test. A few have recenily com-pleted their yearly test. Among these is White Floss, giving 10,53 lbs. of milk. The have a fine yearling built from this cow for sake. Bright Lassie has completed her to receive test, giving 732 lbs. of milk are completed. year.

Some of the young things that should make good at maturity. Calemity Teach Dekol 16.0.P. at 2 years 1 months 2.10 bekol 16.0.P. at 2 years 2 months. 1570 bekol 18.0.P. at 2 years 2 months. 1580 bekol 18.0.P. at 2 years 2 months. 1580 bekol 19.0.P. at 2 years 2 months. 1580 bekol 19.0.P. at 2 years 2 months. 1580 bekol 19.0.P. at 2 years 2 months. 1590 bekol 19.0.P. at 2 years 2 months. 19.0.P. at 2 years 2 mo in a year. I have several very choice females for sole. They are big producers and fine in-dividuals; also some very fine yearlings. We have bull calves fit to head any herd.

February 8, 1012.



E. H. DOLLAR, Heuvelton, N.Y.

# **3 YOUNG HOLSTEIN BULLS** FOR SALE

to 12 months ald

One sired by Sir Sadie Cornucopia Clo thilde, whose 3 nearest dams' records au-erage 30.58 lbs, butter in 7 days, Others sired by Omsby Calamity Lad all from mi MARTIN McDOWELL, Oxford Centre, Ont.

CLEAR SPRING STOCK FARM HOLSTEINS

GLIAN SYMINE STUCK FARM HULSTEINS Special offering 5 treview-month-old hul alves, good thrifty fellows, fit for service. These will all be priced right down low for quick sale. Would sell anything in the hord, which consists of 40 head and grandson of Evergreen March, 55,107 he.

C. JAKES, JAKES, MERRICKVILLE, mile from C.P.R. Stati

RIVERVIEW HERD Offers bull calves from 2 to 10 mos. old SIRED BY KING ISEBELLE WALKER, whose 3 nearest dams and sister average 30.10 LBS. BUTTER IN 7 DAYS and 115.37 lbs. in 30 days from dams of likewise breeding, at exceptionally low figures to make room.

P. J. SALLEY, LACHINE RAPIDS, OUF

# HOLSTEINS

**Leslie Farm Holsteins** 

G. W. COUNTRYMAN

"LES CHENAUX FARMS"

They combine Conformation and Pre-

Bull and Heifer Calves from our wis-ners for sale.

DR. L. de L. HARWOOD, D. BODEN Prop. Man

**Ourvilla Holstein Herd** 

EDMUND LAIDLAW & SONS, Ayimer West, Ont.

If you are wanting HOL STEINS, any age, either sex GORDON H. MANHARD. Manhard, Ont.

> BOSTON, Jan. 30. allos in my immod silos in my immedi ing a very small per-ers. Only one of m silos. The feeding of silos. The feeding is practiced by mos silo here.—R. W. J. ERIE VIEW, Jat tions are milder, ing. Local buyers \$6.10. Hay is sel scarce. Stock is co condition. We hav

of dairying and ha SIMCOF ORILLIA, Jan. Za and a half miles of slos on our line, it n or S. Orillia No

HARROW, Jan. 30 during the past week tobacco are being n is scarce, hay and s by carload lots. Go prices. Hay is \$29 a 35c a basket; tobs by case. Hay is \$29 a 35c a basket; toba 1b; eggs, 35c; butter



FOR SALE-Two young bulls fit for serv-ice, one from a 21 lb. four-year-old, the other from a 24 lb. cow. Both are good individuals and have high testing dama on both sides. Write for further information. W. E. THOMSON, WOODSTOCK, ONT. R. R. No. 7, heaviest milking strains of Ayrshires in the world." **CEDAR VIEW HOLSTEINS** High Class Registered Holsteins All Ages FOR SALE Best Breeding Can Supply a Car Load. Price Right C. P. R. G. W. UUUI. Bell Phone TWEED - - ONT.

HOLSTEINS-Winners-in the ring and at the pail. Gold Medal herd at Ottawa Pair

We have bull calves fit to head any herd. We have one choice bull calf, whose dam, have the base should be been been built of the We have book base should be been been been pure bred White Wyandotte pullets. for each the John Martin month. Batisfaction guaranteed - Wm. Thora, Lynedoch, Ont.



on severo for th been severe for the have good aleight g ting in their i drawing logs, for good prices. A fee cows and realizin beef is 6c and 7c a feeds are high. b.; dairy butter, i

0 NORTHUMBE

February 8.

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RICHMO

NOBTHUMBE CASTLETON, F much snow in the along the fences i Farmers' Institute 27. Hogs are un farmers are selling is high.-H.M. A

BRIGHTON, Jan silo in our neigh gomery, Hilton P. Mr. H. F. Hay, Hi putting one up. cane for short pas

ONTARI ONTARI KINSALE, Jan. within a mile or m of my place. Jus neighbors have sile very fast in this

rounding country.-VICTOR

HARTLEY, Jan through January cold, going as low The snow is piled laces almost impa ields to make a grain and clover ill make the f hay is \$15 to \$16 a hay is \$15 to \$16 a sale. Straw is harv peas, \$1; barley, 75 90c: potatoes, \$1.10 almost impossible price: hogs, \$6.25 \$6.25 and scarce.-W

NORFOL

condition. We had creamery meeting s A bunch of farmer tended, and were ve the able addresses

or them with two cluded). Would say vicinity. Green corr -T. W.

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# OUEBEC.

RICHMOND CO., QUE.

RICHNOND CO., QUE. DANVILLE, Jan. 30.-The weather has been severe for the past two weeks. We have sood delighting. Farmers are busy devine logs, for wh. Not of them are availed logs, for wh. Not of them are several and relighting good prices. Dreads beef is fe and 7e a. H., & for extra. Grain feed are high. Creamery butter, Ste a h; dairy butter, 28.-M. D. B. ONTARIO

# NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., QNT, CASTLETON, Feb. 1.-There is not much snow in the fields; it has drifted along the fences and on the road. The Farmers' Institute was held here on Jan. 7. Hogs are unsteady in prices and farmors are selling below weight. Grain is high-H. M. A

ja high.-in. m. BRIGHTON, Jan. 27.—There is only one silo in our neighborhood—Mr. W. Mont-gomery, Hilton P.O.-out of ten farmers. Mr. H. F. Hay, Hilton P.O., is talking of putting one up. I sow corn and sugar cane for short pasture.-W. T. S. ONTARIO CO., ONT.

ONTARIO CO., ONT. KINSALE, Jan. 30.—There are 15 silos within a mile or mile and a half each way of my place. Just about one-half of my neighbors have silos. Silos are going up very fast in this neighborhood and sur-rounding country.—W. E. R.

## VICTORIA CO., ONT.

VICTORIA CO., ONT. HARTLEY, Jan, B. - The wreather through January has been exceptionally coid, going a low as 35 to 30 helow serve. The snow is piled up on the roads, scene pinces almost impassible, and lots on the fields to make a good covering for fall sonably pientific, but the coid, as roa-sonably pientific, but the good ready all. Straw is hard 's get. Oats are do: pass. St harty, To to 55; wheat, do to an times, the farmers excelul. The hay is \$15 to 55 a ton, with a good ready ale. Straw is hard 's get. Oats are do: price: hops, file 52 a core, with the farmers, and stand scarce. -W. M. NORFOLK CO., ONT. NORFOLK CO. ONT.

NORFOLK CO., ONT. BOSTON, Min. 30. There are only even alos in my min. 30. There are only even the second second second second second log a very small percentage of the far-are. Only one of my neighbors has two shows - He feeding of enalage in summer is practiced by most of those who have a show - H. W. J. T. "Wather condi-tions are milder, with excellent adsign-ing. Local buyers are shipping hogs at \$5.10. Hay is selling at \$21 and very sarces. Stock is coming through in good condition. We had a very enthulsate humoh gr uning seven miles from here. bunch gr uning seven miles from here, bunch gr uning seven miles from here, tended, and were very much interests in the able addresses on up-oaksies methods of dairping and handling eream.-B. B. SIMCOF CO. WAT

SIMCOE CP\_wart. ORILIAL, An Ex-Three are within two and a hair raise of Orilla 20 silos. Nine silos on ogl fine, it being the 5th concer-n or 8: Orillis North. There are three without with two silos each (mywelf in-claded). Would say 25 to 30 per cent in vicinity. Green corn is used considerably. -T. W.

## ESSEX CO., ONT.

ESSEX CO., 0NT. HARBOW, Jan. 30--Riejdning was good during the past week. Large shipments of tobacco are being made every day. Eved is scarce, hay and straw being shipped in by carlord being. Good horses being good prices. Hay is \$29 at con; cats, 55c; corn, Se a basket; tobacco, 6t to 12 15c a lb; eggs, 35c; butter, 25c to 28.-W.A.H.



Officers Elected

days. His dam is Woodcrest Korndyke, (

His dam is Woodcrest Korndyke, one of the greatest daughters of Homestead Girl DeKol Sarcastic Lad, having 22.97 lbe. butter in 7 days. Her dam Emporia Korndyke DeKol has 26.07 lbe. butter in

Belleville Jaures of the second annual standing fautures of the second annual bistrict. Holystem are the discretised bistrict Holstein Brett of the Belleville bistrict Holstein Brett of the Belleville automask of the second consignment autoin sale that will be hold in Belle-ville April 3. It is expected that between 15 and 20 pure bred animal will be sold from desclided to prevent the consignees from desclided to prevent the consignees from desclided to prevent the consignees from desclided to prevent the sold in the tended that no buils shall be sold are tended that no buils shall be sold are tended that on the tender and au-tended that one 76 breckers. This shows the strength of the organization and au-tended by ann address of velooms from the Mayor. Miners Hitsted

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EXCHANGE for CASH? A BICYCLE you want to sell? POULTRY for which you want a good price? Or EEGS FOR WOU CAN GD sell? Remember YOU CAN GD sell? Remember YOU CAN GD sell? POSSIBLE BUYERS of which you have for sale AT A VERY LOW COST by placing your advertise-ment in the columns of Farm and Our rate is within sent.

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FARM AND DAIRY

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