

Not One Good Point, but Many

Some makers of Cream Separators lay special stress on the ONE STRONG POINT in their machines, losing sight of the fact that they have weak points, and forgetting that no Cream Separator is stronger than its weakest part. A Separator that turns easy is of no particular merit if it is constantly getting out of order. A Separator that is easy to wash will not long remain in favor if it does not get all the

cream out of the milk. It is not enough that a Sep-

arator have ONE good point. It must be good in EVERY particular.

Look at the good points

of the 'SIMPLEX' LINK-

BLADE SEPARATOR,

with the SELF-BALANC-

ING BOWL. IT GETS

ALL THE FAT that can

be obtained from the milk

by any process. It is Seif-

Balancing, and does not

cause trouble as other sep-

arators do by the bowl

getting out of balance. It

is the LIGHTEST RUN-

PLEST machine, having

the fewest parts, and will



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g accessibility of gearing. Removing the body-housing, exposes the gearing and lower bearings.

not get out of order like the more complicated machines do. It can skim cold or hot milk, and WILL NOT CLOG UP. In fact, it has ALL the latest features in Cream Separators, many of which belong exclusively to the "SIMPLEX" machine.

That is why our machines are giving satisfaction wherever used. THEY STAND THE TEST OF LONG, HARD USE. We GUARANTEE them to give satisfaction.

Let us tell you more about them. Write for our Illustrated Booklet. It is Free.





A Manufacturer Speaks Out

Editor, Farm and Dairy,—As one of your readers, I regret that I am impressed with the fact that you have impressed with the fact that yeu have strong intentions to place before your readers only that which will tend to further their education in a direction that will promp them to use their influence to produe Inter-national conditions which will not work out to their general welfare as Condinas.

Canadians. You have given considerable pro-minence to the public utterances of one-EC. C. Dury-who speaks as a farmer for farmers, as one wio has specially made a study of economics, and knows whereof he speaks. To me-his language at times seems to beand knows whereof he speaks. To me his language at times seems to be-tray is sympathetic position in which he sympathetic position in which he forwing feelings of appa-ront hatered and envy towards the re-puted properity of others of his countrymerizing of others of his countrymerizing of the feelings of irritability in the unids of citizens of one industrial class towards those of their fellow laborers in the other branches of industry is vicious and unpatriotic.

unpatriotic. In your report of this gentleman's utterances in your issue of February 23rd, you claim him to be a man of moloration, and I might almost add, "infailfullity." For example, let us examine your report of one of his examine your report of one of his public utterances. "The price of public utterances. public utterance. "The price of manufactured gods is determined by the cost of production. freight rates and profits to the manufacturer and merchant. To these items is added the amount of the tariff, whether the use is more and any imported " the amount of the tariff, whether the goods are home made or imported." This gentleman surely knows better than te so misrepresent facts. It is clearly evident his desire is to make his hearers believe that they are the planted within them. It is improper victims of extortion and greed. The summing wise language is onits in:

planted within them. It is improper victims of extortion and greed. The seeming wise language is quite in-seeming wise language is quite in-seeming wise language is duite in-duiting the seeds of hatred for the generalization of the set of the ed." Did he do set of urther his own design? Could he plead ignorance, or is he capable of something worse? In a set of the set of the set of the manufacturer who has contin-ing the selling values of manufac-tured goods if the Garadian mar-ket, it has not be the Garadian mar-ket, it has not be a set of the second price for which similar second price for which similar second market. Home competition States market. Home on the second set of the second in the state of the second price of the second in the second set of the second second set of the second set of the second in the second set of the second second set of the second only competitor occupying my atten-tion. And what has been my experi-ence, I believe, has been the experi-ence (especially of late years) of ninety per cent. of the Canadian manufacturers.

manufacturers. To give examples of trusts and combines is hardly applicable to the issue. They exist in foreign as well as in our own country, and where their power enables them to operate contrary to the general welfare, it becomes purely a question of internal governmental regulation. One might governmental regulation. One might with equal propriety speak despair-ingly of dairymen generally, because a few dairymen have been found guilty of dishonorable practice. There are other dishonorable practice. There are other dishonorable practice. There are the dishonorable plassed to take exception would be plassed to take exception line for a guilty unreasonable and mission as equally unreasonable and mission as equally unreasonable arising the prices of manufactured articles may also be said about the reference to the market for our aurarticles may also be shull about the reference to the market for our sur-plus product establishing values fo the home market, and the absurdity of the \$4,000.00 mortgage declara-

tion. Time an. space will hardly permit a further reference, but remember, Mr. Editor, that the agitated mind, enough.--N. P. Hull, Michigan.

March 16, 1911.

kept agitated, will never rest till it becomes possessed of a logical conclu-sion. And it is not by a mirrepre-sentation of facts that such will be accomplished.--Wm. G. Ellis, Toron-to, Ont.

Comparisons re Manufacturers

Editor, Farm and Dairy,-Since Editor, Farm and Dairy-Since writing you last November about the manufacturers I have come of Mome, N.Y., to take care of the only soon and heir of one of the American multi-facturers. The soon is perfectly we have but I am here to see that he stays soon In record to the hariff me any soon but I am nere to see that he stays so. In regard to the tariff, my employer says that they ship their goods into Canada, pay the duty and sell a better article for nearly the same price as Canadian goods and still make a nomin

Profit. I think our Canadian manufactur-ers need Leiter methods in their busi-ness rather than protection. Our Can-adian manufacturers do not pay the wages either that the American manu-facturer has to pay his men. Mr. Can-adi, an manufacturer needs to wake up adi get busy. He's had the sugar-plum too long. Now he needs com-pution to spur him on.—A Trained Nurse from Old Ontario.

Field Crop Competition

Freid Crop Competition A grant of \$7,500 has been placed in the estimates this year by the On-tario Government for standing field crep competitions, to be dudated under the auspices of the boards of the agricultural societies. Counts of the intervence of the boards of the intervence of the boards of the boards of the intervence of the boards of the boards of the boards of the intervence of the boards of the boards of the boards of the societies. Counts of the boards of the board of the boards of the societies of the boards of the boards of the boards of the societies of the board of the board of the board of the board of the societies of the board of the board of the board of the board of the societies of the board of the board of the board of the board of the societies of the board of the board of the board of the board of the societies of the board of the board of the board of the board of the societies of the board of the board of the board of the board of the societies of the board of the board of the board of the board of the societies of the board of the b the agricultural societies. Competi-tion in each society is to be limited to one crop, which should be the one of mast importance to the farmers of the district. Fields entered for com-petition must consist of not less than five acres, nar more than 20 synchr the acres, nor more than 20, except that for beans and potatoes the mini-mum plot is not less than one acre. The competition is limited to mem-The competition is limited to mem-bers of an agricultural society, and the fields entered marks be not more than 15 miles from its be not more than 15 miles from its hard and and ciety will be accepted by accepted tion is limited to the first 100 miles on the must do so before the lat of May and individuals before the 26th of May.

of May. Selection must be made from the following crops: Spring or fall wheat, white oats, barley, re, corrupeas, alsike clover, alfalfa, red clover, po-tatees, beams, or any other staple crop produced for seed in Ontario Each accient must offas in prime

produced for seed in Ontario. Each acciety must offer in prizes act less than 820, of which the Gor-tens will give a grant of \$30 and then heat will give a grant of \$30 and then heat will give a free of charge. The heat acciment will offer prizes for two-heat acciment will offer prizes for Gueph and Ottawa Winner Fairs, the winners of free, second and third primes in the standing field orcp com-petitions. petitions

protections. In addition to the above, arrange (the addition to the above (the addition to be held (the above (the a

I never believed in luck continuing ong against a man if he bustled

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horses until They can the land to proce thousand hor by April of make a west still in use exen for any afford horses. to supply th

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ing steck? The demand and prices for heavy horses has been increasing. The average farmer, however, is slow to possess himself of brood mares suitable for the purpose of breeding the best class of draught horses. This lack of enterprise on the part of the farmer is very noticeable to any one who is in the heavy horse business as I am. Both of the mares referred to were bought by the writer and sold at a profit an hour after arriving home. One of them has changed hands again at a profit. Had either cf the mares mentioned been geldings they would

two year old Canadian bred stallion sold for

\$420, at an auction sale held recently in a

prosperous township. This was surely a re-

munerative figure. His dam in good condition,

weighing about 1,500 pounds, guaranteed good

to work, and sound, sold for only \$260. She

was seven years old and was supposed to be in

foal. Her team mate, registered, four years old,

sound, and heavy in foal, sold for \$245. There

was a big crowd at the sale and not 10 per cent.

of those present owned a pure bred bread mare

I have been wondering ever since that sale why

heavy brood mares are not in greater

demand. Is it lack of courage, judg-

ment, enterprise or a combination of

all three, that prevents farmers from

paying superior prices for good breed-

have brought nearly as much money. MARKET UNLIMITED

Heavy horses are likely for many years to command good prices. They may not always sell as high as they have been during the past year but the Western Canadian demand alone will absorb thousands of horses during the next decade. Nothing but off ears in Western crops can stop the demands. When a good crop does come the extra demand will make up for the slack period preceding.

Many hemesteaders cannot buy horses until they have "proved up." They can then raise money on their land to procure suitable teams. Ten

thousand homesteads were taken up in Alberta by April of this year. It takes four horses to make a western team. Thousands of oxen are still in use on the prairie. Nobody will drive exen for anything but breaking when they can afford horses. Thousands of horses will be needed to supply these new settlers.

When we consider that all the broken land in Alberta and Saskatchewan in the spring of 1910 was not of greater area than the road allowances of the two provinces we can form some idea of

the extent of country still requiring some kind of power to break the sod for the ever increasing number of settlers. Gasoline and steam tractors will help with plewing and teaming when the land and roads are dry but they are not suited to the every day use of the farmer as is the horse. LARGER HORSES IN DEMAND

FARMAND DAIRY

RURAL HOME

FOR WEEK ENDING MARCH 16, 1911.

WHY I BREED HEAVY HORSES-VIEWS OF AN ONTARIO FARMER

The Demand for Heavy Horses is Unlimited-Good Breeding Stock is a Better Investment than Land-

Suggestions for Improving the Status of Horse Breeding in Ontario -Some Profits.

R. M. Holtby, Ontario Co., Ont.

Teamsters in our growing cities, contractors and even farmers, are using larger horses. This factor has made the demand for 1,500 lbs. and up cf horse power much in evidence. The 1,500 lb. horse is the only horse the market calls for at



A Rule of Breeding Illustrated-"Like Begets Like."

Heavy draft horses are the market toppers today. To produce these high riced animals we must have breeding stock of proper conformation and whit to start with. The above illustration shows a mare and her get out produced from au undersized mare. Remember that "Like begets Like."

slack seasons of the year. Such a horse sells more readily at \$250 to \$300 than the 1,100 to 1,200 horse does at \$175.

It costs nearly as much to raise the little horse, whose cost for risk, feed and attendance at three years old is from \$125 to \$150, leaving a very small margin of profit, as it does a big one whose extra price is all profit. Filly feals from ordinary registered mares were selling readily last fall at from \$100 to \$140 (a car of 28 in our section at \$100 to \$125) while foals from good

sires and good mares will sell from \$150 to \$175. In one case that came under my observation \$200 was refused for a male foal. These prices should justify the purchase of a good mare and make up for any risk in the advanced price of \$50 to \$100 over the cost of the mother of the cheaper horse

Only \$1.00

a Year

No. 11

MORE PROFITABLE THAN LAND

When ycu get a well bred draft brood mare that is a regular breeder she will bring in as much money each year as 50 acres of land that rents for three dollars an acre. The mare will earn her feed and produce a foal worth at least \$50 at weaning time and the service fee will be no more than the expenses for repairs on the 50 acre farm worth perhaps \$3,500. In other words meney invested in land brings in about four per cent. to five per cent. while money inve tod in good stock will make from 15 per cent.

to 30 per cent. It is better to be a tenant with good stock than a landlerd with poor stock.

In our district nearly all are breeding to heavy horses, though many mares are not heavy enough to produce drafters. Owing to the great demand for work horses many light mares were bred this year to draft sires. A market topper, however, is not often preduced by breeding of this kind.

The average farmer in my section is not raising one foal a year, many none. Occasionally one man will have from two to four foals each year. Many of the farmers have good mares. Too many, however are always ready to dispose of the best ones at what they think a high price and keep common blemished stuff with which they hope to breed high priced progeny.

If such a suicidal policy is not stopped we must ever draw from Scotland or go to the Western Provinces for cur best draft horses where they are always ready to pay the top price for the best.

SUGGESTIONS FOR IMPROVEMENT

To improve the state of horse breeding I would say that we should use nothing but pure bred, sound sires and like the "Canny Scot," never sell our best mares. The use cf better sires could be hastened by legislation. It seems however that our legislators are always ready to appoint commissions but slow to act on their

reports whether from fear or from indecisicn let them answer. For the present to promote better horse breeding we must be content with educational methods.

Such a method of inducing farmers to keep better stock is very slow as the men you wish to reach do not take agricultural literature, attend institute meetings, live stock judging classes, farmers clubs, or any of these meetings intended for their instruction and benefit. For the present let us keep everlastingly at it, educating farmers

to an appreciation of what constitutes good breeding and hope for helping legislation in the near future.

Heavy horses are the only kiud of horseflesh I am always sure of making prefits on. Last winter our four stallion colts rising two years old brought \$1,250. Two colts foaled the same year and sold as foals and two others sold as yearling fillies brought \$375. The total, \$1,625, is not a bad revenue for one winter from colts of our own raising. We buy and sell a good number also, Lut exact profits are not at hand.

Growth of Dairying in Denmark

The number of cows in Denmark in 1866 was 812,000, with an average annual preduction of about 2,200 pounds of milk per cow. The number of cows in 1903 was 1,089,073, with an average production of 5,720 pounds. The average annual production at the present time is estimated at about 6,600 pounds of milk per ocw.

The increase in the production has been spe cially noticeable as the cooperative movement has taken hold of branch after branch of the cattle industry, as well as other phases of agricultural work which indirectly would influence its development. The period from 1880 to 1883 will always be memorable in the history of British agriculture, Lecause it marks the organization of the first cooperative creamery, the first pemanent cattle breeders' association, the publishing of the first public herd book, and the appointment of the committee for the preservation and improvement of the Jutland breed.

LARGE IMPORTS OF FEEDS

It also marks the period at which Denmark ceased to export grain, due to the fact that it proved more economical to feed it to the cattle. Since then not only has the grain raised in the country been fed to the live stock, but the importation of grain and concentrated feed stuffs has increased from year to year. In 1907 the imports amcunted to 1,608,000,000 pounds of grain, 987,000,000 pounds of oil meal and oil cake, and 131,000,000 pounds of bran and gluten, a total of 2,726,000,000 pounds.

The larger portion of this large total of feed stuffs has been used in the production of butter, of which, in 1907, 200,069,200 pounds were exported to England. But in addition it has added thousands of dollars worth of plant food to the scil. The fertility once lost through the marketing of the grain from the farms has not only been replaced, but in many sections the

soil is richer, and is at present producing larger crops than ever in the past.

It is well to remember that the great improvement affected in Danish cattle has not been brought about by importation of high priced animals from other countries, but is simply due to organization and cooperation, careful selection, systematic application of the principles of breeding, and good care and liberal feeding of the cattle. It is the result of having a definite purpose in view, which is never lost sight of. The Jutland cow, once primarily 'cept for the production of beef, has been changed into a profitable dairy cow. The average annual production of the Red Danish cows, according to the creamery statistics for the island of Funen in 1907, was 6,930 pounds per cow, an amount that will compare favorably with any dairy breed.-From "Cattle Breeders' Associations in Denmark" Bulletin No. 129, U.S. Department of

Some Comments on Tile Drains M. J. Wilson, Kent Co., Ont.

I am farming 200 acres of which nearly all is tile drained except some little spots a rod or so square in some of the fields which I have not had a chance to tile as yet. I have on the farm about 35,000 feet of tile, the largest being 10 inches in diameter, the smallest three inches. The drains vary in depth from 10 feet to 18 inches, according as the fall requires. The land is rolling. Sometimes in order to get to a good outlet and shorten the drain we had to go deeper. In one place the drain is 10 feet deep.

Owing to two natural drains crossing my farm which afford all the outlets required it saves me from the expense of the large outlet drains. Otherwise the 35,000 feet of tile would not drain the land that they do.

In putting in tile ... try to get three inches fall to the 100 feet. This is sufficient for ordinary tile draining where good outlets can be obtained. At the same time I have a drain working very satisfactorily with a 7-8 inch fall to the 100 feet. In a case like this a larger tile was used than on a greater incline.

My drains are put in the low lying land. I try to have them 18 inches deep in the lowest spots at the upper end of the drains and generally this makes the drain average about three feet in depth. Such a drain costs abcut 25 cents a rod for the digging, blinding and plowing in after the tile are laid. I do not think it advisable to put in less than four inch tile at this depty unless there is a very small amount of water to be carried off. The cost of digging is the same for a four inch as for a three inch tile.

Land that is tile drained can be worked a wee or 10 days earlier in the spring than land having only open ditches. I believe that a drain well put in will pay all expenses in two years. As to difference in crops on tiled land as compared with undrained I would estimate it from my own experience at one-third more on the average in favor of the tiled land.

Single Ear Corn Testing

Every ear of seed corn required for planting an acre can be tested at the trivial cost of from three to 10 cents an acre. The failure of the planted kernels from a single ear to germinate will mean the loss, in the prospective crop, of approximately five bushels of corn-worth \$2.50. It would seem then, that no further argument should be required to convince any intelligent farmer of the desirability of testing every ear before planting. Fifteen to 20 ears of corn will plant an acre. The failure of the kernels from one of these ears to grow means, then, the loss of not less than onctwentieth, or five per cent., of the prospective crop. As well plant 500 small stones as 500 kernels from an ear whose vitality has departed.

The usual method of testing seed is to take 100 kernels from a sack of shelled corn and place them for germination between a couple of wet cloths, sandwiched between two plates, and kept at the proper temperature. If all the kernels germinate, it is safe to plant the seed without further testting. But if only 95 to 98 per cent. germinate, it is best to put aside the sack of shelled corn, for feeding cattle, and to apply the single ear test to a number of selected ears. Then you can plant your field with corn, not a single ear of which has germinated less than 100 per cent.; and if you fail to get a larger grop than ever before, under old methods, it certainly will not be because of inferior seed.

The apparatus necessary for the single ear test on a large scale is a box, say, three to four inches deep, filled with sand or sawdust, and a wet cloth. Such a box will afford room enough to test 400 ears, or corn enough to plant 20 acres. Four thousand ears-enough for 200 acres-have been tested, in actual farm work, by one man in 36 hours.

Loose rein drivers are an abomination .- Dr. F. C. Grenside, Guelph, Ont.



Canadian Holstein-Friesian Breedor: Association who were at their hanquet in Toronto at the time of their annual of the illustration we recognize for the second se

March

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Befere the need to dairy were, O changes in the p these cha articles v line, whi farmers 10 years making t milk as

Last y and foun that new without of 24 gr steins. (in the su season ye others fr milking h lts. of m Our best 5,953 lbs. uring the Tillsonbu per cow

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Loose In Farm

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Large Average Increased Milk Production James Elliott, Oxford Co., Ont. Befcre Farm and Dairy was started I had felt

March 16, 1911.

the need of an agricultural paper more devoted to dairying than our other agricultural papers were. Ours is decidedly a dairy section and the changes that have taken place along dairy lines in the past few years are remarkable. I believe these changes are owing largely to the inspiring articles written by practical dairymen along this line, which have appeared. To-day we see our farmers keeping two cows where they kept cne 10 years ago and at the same time they are making the cows kept now produce twice as much milk as the former ones did.

Last year we kept milk records of each cow and found the work so interesting and profitable that new we would not think of milking cows without weighing their milk. Our herd consists of 24 grade Holsteins and two pure bred Holsteins. One of these did not freshen until late in the summer and as she has not completed her season yet, she is not included in this list. The others freshened early in the spring, 13 were milking by April 1. These 25 cows gave 201,449 Hs. of milk or an average of 8,058 lbs. mer cow. Our best cow gave 11,334 lbs. and the poorest 5,953 lbs. Three gave over 10,000 a piece. Figuring the milk at the prices by the condenser in Tillsonburg, it brought \$2405.38 or an average per cow of \$96.69.

HOW THEY WERE FED

When our cows freshened and until May 15, when our ensilage ran out, they received about 35 lbs. ensilage, one pound of meal to six pounds of milk produced, a few mangels and eight to 10 pounds of clover hay. We fed twice a day, this being fed in two feeds. After May 15 until the corn was ready for feeding in the fall the cows received nothing but clover pasture, no meals nor ensilage. The pasture was fairly good. From the time we started to feed corn until Dec. 1, they received some hay in addition to the corn. Arter December first they were fed ensilage with a ngan grain ration.

We attribute our increase in milk production from the old standard of 3,000 lbs. a cow, to two reasons : First, we have heading our herd for the past 13 years pure Lred males, these being from heavy milking dams, and have raised nearly all of the ccws we now have from our best cows. We now have some three and four generations of this blood in our herd. Secondly, we have got our large production by giving the cows a good start at freshening and trying to maintain the large flow of milk as long as possible throughout the season. Our present aim is to have a herd which will average 10,000 a piece.

Loose Smuts of Wheat and Barley

In Farm and Dairy, Feb. 16, a description was given of the treatment for stinking smut of wheat, covered smut of barley, and oat smut. It was pointed out that in each one of these smuts the smut-dust lives over the winter on the outside of the kernel, thus making it possible to prevent these smuts by means of the formalin treatment. It was also stated that the loose smut of wheat, loose smut of barley, and corn smut cannot be prevented by this treatment.

The loose smut of wheat and the loose smut of barley are independent forms. The smut-dust from wheat will not infect barley, nor will the smut-dust of barley infect wheat. They have the same kind of life habit, which is very different from that of any of the other common smuta. Briefly it is as follows: The smut-dust (spores) from smutted heads is blown about at the flowering time of the grain. At this period the chaff of both wheat and barley often spreads quite wide apart for considerable periods of time. The smut-dust particles (spores) are blown into

the chaff and fall on the very young kernel, where they germinate. The disease thus gets inside the young kernel, where it stays until the next spring, when the grain is scwn. It then gets into the stem-tip when the grain sprouts, grows along inside of it, and finally changes the head of the grain to a smut-mass.

Since the disease is inside of the kernel, it is clear that the only way to prevent these smuts is to either get seed which has no smut inside or kill the smut which is already there. If it is possible to get seed from a field which had absolutely no loose smut, and which was not near a field which did have loose smut, the crop will be free from it. There is always the danger, however, that a little of the smut-dust may have

Influence of Special Foods on Egg Production

M. C. Herner, O.A.C., Guelph, Ont. The feeding of cut green bone and beef scrap are probably the most common cases of special feeding for egg production. Where these have been fed to different flocks the desired increase in egg production always followed, but along with this there was a heavy percentage of decrease in the fertility of the eggs used for hatching. Nor did the influence of the food stop here; the hatching power of the fertile eggs was also decreased. and still further, there was a higher mortality in

the adult flock than where these were not fed. These results would indicate that there should be a method of feeding such feeds that will give a



Flocking in to Attend the "Farmer's Institute on Wheels"

The "Goad Farming Special." which during the past two weeks, through the cooperation of the Mich gan Central Southway, carried speakers and material for demonstrations, stopping at various publics alon its lines in Southway, carried speakers, and carried sets the state of the interior south and the state of the interior of the first set of the first set of the first set of the interior of the in

blown from another field, or that some may have been present which was not noticed.

It is possible to get rid of smut which is already inside the seed. The process takes considerable time, however; so it is best to use the following method, in which only a small amcunt can, in ordinary practice, be treated at one time : wirst, treat some seed, to make sure it is absolutely free from smut. Then sow this clean seed on a plot of land, which will not be reached by smut-dust that may be blown about from other fields. A barley-seed plot should be as far away as possible from any other barley field, and the same is true of a wheat-seed plot. In this way smut-free grain may be grown from treated seed ; and it may be kept clean, so that the next year there would be enough clean seed to sow in all the fields.

It is important to remember that after the seed is clean it must be planted where smut-dust from other fields will not be blown upon the grain, or there will Le smut again the next year. Farmers ought to cooperate in this work. If one famer goes to the trcuble of treating enough seed, so that the increase crop from it will be enough to sow all his acreage of that crop the next year, it is manifestly unfair that another farmer should raise a smutty crop, which may again infect his neighbor's. To insure a clean crcp requires care and patience; but, considering the losses due to loose smuts, it is certainly worth the effort.

If you did not mulch your strawberry bed last fall, there is still time to give it some protection against alternate thawing and freezing this spring. Cover the bed with straw cr boughs in order to keep the ground frozen as long as possible .- A. B. Cutting, B.S.A.

high egg production and along with that a fairly high percentage of fertility without in any way deteriorating or in any way impairing the general health of the adult stock or the vigor and vitality of the little chicks.

A small quantity of cut green bone or beef scrap may be fed, but where the animal protein side of the ration can be furnished in a form which gives equally as good results, it is well for the poultry man to adopt those foods. Among these may be noted two of the most important feeds intended specially for laying stock. I refer to buttermilk and rolled oats as foods specially adapted to meet the requirements of the laying hen.

A ration for the laying stock, of which buttermilk and rolled oats form a part, may be made of equal parts of corn, wheat and buckwheat (the latter to be used only during the winter months), scattered in the litter night and morning. Along with this the birds should have all the buttermilk they wanted to drink, and a hopper full of rolled oats in front of them all the time. Along with this green food should be furnished in the form of cabbage or mangles. Clover or alfalfa hay may be fed to them in the same way as it is given to cattle. Grit and oyster shell should be before them all the time. Cut green bone may be given once a week but only a very small quantity of it. This ration is for winter feeding, which means that the green food, hay and cut bone are dropped during the summer season.

The value of buttermilk and rolled oats cannot be overestimated. They seem to fit in just right as a part of the foregoing ration. At various times in experimental work, the rolled oats were withheld from the ration and the egg production dropped down 50 per cent. in the course of two weeks; the same occurred when the buttermilk was withheld and water given instead.

FARM AND DAIRY



How "Eastlake" Steel Shingles



6

Talk No. 2 Durability

The Philosopher of Metal Town

will save you money

Durability - just the difference between a roofing that lasts only a few years and one that remains in perfect condition for a life-time.

That's the difference between "East-lake" Steel Shingles and other roofings.

Actual service is the only sure test of roof quality.

"Eastlake" Steel Shingles have been proven positively superior by the test of time.

Earn and house roofs covered 25 years ago with "Eastlakes" are in perfect condition to-day.

That's your proof-your only protec-tion, and is safer than all the highlycolored, many-worded guarantees that really guarantee nothing.

"Eastlake" Steel Shingles are made of the finest sheet steel, and have a patented side-lock and gutter that locks permanently-makes the roof one sheet of indestructible steel.

They are easy to lay, and remain weath-ertight, snow, wind, rain, lightning and rust proof as long as the building stands.

Send for our illustrated booklet, "Eastlake Metallic Shingles." It gives more reasons. Write to-day—a post-card brings the booklet.

Conductor Pipe, Ventilatore, etc.



"EASTLAKE' We also manufacture Corrugated Iron, Barn STEEL SHINGLES and House Siding, Metallic Ceiling, Eavetrough, The Metallic Roofing Co.

10.00

Toronto - Winnipeg Agents Wanted in Some Sections.

Don't make your horses wear out their energy dragging one of those for graging one of those land rollers. Hick this sell, "The Bosell' runs energy that the sell sell's the sell that the sell's the sell that the large is included the usual 2% inch diameter. And 2% inch diameter. And 2% inch diameter. And 2% inch diameter. And 3% inch diameter and anges are of proven the sell one pro-ceeded the sell one pro-barings strategia in line, whereas riveted anges are on twist out of whape bearings straight in line, whereas rivetted cages soon twist out of shaps and allow the bearings to grind, causing heavy draft. And because the heavy 2 inch solid steel axle revolves with the drums the "Bissell" is so nearly frictionless that drums the "Hissell" is so mearly frictionless that oiling is scarcely ever ne-cessary. The "Bissell" is staunchly built. It is the only roller with side plate both frame. Compare the "Bissell" with any other roller, es-pecially at work in the

"Bissell" field, and you'll quickly decide to buy the "Bis-sell." Send to Dept. R. for booklet containing full description of the 6, 8, 9, 12 feet lengths. We also make a GRASS SEEDER ATTACH-ment for use with the "Bissell."

Get the light draft

And don't believe any roller is the "Bissell" unless the name "Bissell" is stamped on it. We tell you that for your protection.



March 16, 1911.

FARM MANAGEMENT Steel silos are handled by the Wa-Screen Seed Grain Thoroughly

J. W. Clarke, Brant Co., Ont. J. W. Clarke, Brant Co., Ont. When I was a boy at home, we grow 800 busiels of wheat a year. There was considerable chees in the wheat. The neighbors used to discuss the question "Is chees a seed of itself or merely shrunken wheat?" I had we own mind made up that chees

question 'Is chees a seed of itself or mercly shrunken wheat?' I had my own mind made up that chees and wheat were different plants and that, could we eliminate the chees seed, there would be no more of it in our wheat. I determined that we should screen better. After a great deal of trcuble I got a special screen, put it in our fann-ing mill, and although strong objec-large more raised on account of the large more raised on account of the argon and the wheat taken out and the small and of for seed. I had my own way, 'We left or seed, I had my own way, 'We left or seed, I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way, 'We left or seed. I had my own way the left or seed. I had my own way we had be one by account and grain properly.

Twenty Cows on 50 Acres

Twenty Cows on 50 Acres There a small farm of 60 acres of good these site were and all cleared. Gould these site were and all cleared. Gould these site were and all cleared. Could make butter on this area. How name pies could 1 feed on the skim milk and the address of the start site site of the address of the start site site of the address of the start site site of the address of the site site site site and all are fields and the site site of the site site site site site site and the site site site site site site of the site site site site site site site on a farm, situation site site site site site on the 10 acre fields. Should be in corn, roots and potates, say eight acress corn, one site roots, one i ren-protatos. The site site site of the fields should be in grain, one in pasture and one be in grain, one in pasture and one in hay

The rotation I would most strongly The rotation 1 would most strongly recommend under the circumstances is: First year, corn and roots; second year, oats, seeded down to 10 hs. red clover two lbs, alsike clover, two lbs, alfalfa, and six lbs, timothy per acre, third year, clover hay, two crops, fall ploughed; fourth year, oats seeded down same mixture as above; fifth year mature manure anniloid in mix down same mixture as above; fifth year, pasture, manure applied in au-turn and following winter to be turned under with a shallow furrow for corn the next appring. The part of the field destined for potatoes and fall, calibritie be ploughed in early fall, calibritie with somewark, and then reploughed with somewark, and then furrow in late autumnightly deeper furrow in late autumnightly deeper

STOCK FOR 50 ACRES

stores not 30 occurs. Note root 30 occurs. A farm of the area given and on followed might he expected to being 30 ocvs in milk and young stock he sides. It would, of course, be necess-sary to purchase part of the grain or the side to supplement the limited pasture area. A silo 18 feet in dia-meter and 30 feet high would be course to would be a large here and at 18 feet in dia-tio grow from 16 to 20 to ans of cors-to grow from 16 to 20 to ans of cors-to grow from 16 to 20 or 25 head. The milk might, of course, be work-that it could be sold to 20 or 25 head. The milk might, of course, be work-that it could be sold to 20 or 25 head. The milk might, of course, be work-that it could be sold to 20 or 25 head. The milk might, of course, be work-that it could be sold to 20 or 25 head. The milk might, of course, be work-that it could be sold to good daysn-tage to the Ottawa. If it a decided to make butter the skin

to suffice for three pigs, with, of course, supplementary meal, small potatoes, and roots. Steel silos are handled by the Wa-terous Co., Brantford, Ont.-J. H. G.

Travelling Fanning Mills

The proper operations of the fan-ning-mill is by no means a simple

Travelling Fanning Mills The proper operations of the fan-ming-mill is by non-mass a simple thing; and the is means a simple thing; and the is means a simple thing; and the is means a simple really knowing how yory few people really knowing how the fact the best really knowing how for the best really knowing how for the best two types of farm seeds. At least the country; that is, the owning by some one man of two or more good the country; that is, the owning by some one man of two or more good the country; that is, the owning by some one man of two or more good the country; that is, the owning by some one man of two or more good the country; that is, the owning by some one man of two or more good the country; that is, the owning by some one man of two or more good the engine. This man will then ge about during the late fall and win-ter, from farm to farm, and clean and grade grain for the farmers. The ceast would be very slight, per bushel of good seed secured. The cleaning would be sure to the done, and it would be one better than m.st men and on it with the mills they have at hard.-K. A. Kirkpatrick, University Farm, Min. Re Snreading Manure in Winter

Re Spreading Manure in Winter

Editor, Farm and Dairy,-I heart-y agree with Mr. Hartley of Oxford o., who writes in Farm and Dairy of February 23 re hauling manure in winter. We have followed the practice of hauling the manure to the fields di-

of hauling the manure to the fields di-rectly for several years and are well satisfied with results. One reason that some do not get as good returns from fall as from spring application of manure is because thuy do not take into consideration the looseness of fresh manure or the amount of snew and ice taken out in winter along with the manure. When manure is held in a heap till spring it becomes comparcted and a load con-tains much more material than the loose stiff spreed in winter.-J. R. Philp, Wellington Co., Ont.

Splendid Returns for Spare Hours

There are scores of farmers in many localities of this country who would be farm and Dairy did they know of the character of the paper and the great help it would be to have it as it would come weekly to their homes through-out the year. Just how easy it is to get new subscriptions to Farm and Dairy is set forth in the experience of a young man in Peterbore country. Preston P. Armstrong. Recently he started out in a few spare hours to get subscriptions to Farm and Dairy. He wrote us the following letter of There are scores of farmers in get subscriptions to Farm and Dairy. He wrote us the following letter of his first experience: "Enclosed please find three subscriptions, the result of 2% hours' work. I shall give more time to the work as soon as possible." A few days after, Mr. Armstrong sent in four more sub-scriptions.

New is the very best time to can-New is the very best time to can-vass for aubacriptions to Farm and Dairy. We will allew you a most liberal cash commission, or any of our premiums, for the new sub-scribers you get us. Get out now and see what you can do before others get into the work before yen.

Dr. Wm. Saunders, C.M.B., for 28 years Director of the Experimental Farms for Canada, has tendered his resignation and at the end of this month will retire on superannuation. Dr. Saunders is now in his 75th year and has not been in good health for some tima.

March *******

The fhe Fe use of terested tions, or All ques

80000000 Rations In

J. H. Gr Ensilage just as it of better plan

bs. of cut lbs. ensilag able for the cut hay or several day be a very a paring feed that they w meal to be the mixtur after it is whole mass average con lbs. of such

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FOR Corn sila Straw or Clover ha Bran

Corn silag Straw Clover hay Bran .

Corn silag Straw ... Clever hay Meal mixt oil-cake me equal parts. or four pou diem.

STEERS I Corn silag Straw Clover hay FATTENING Corn silage Straw Hay Meal-Sta

to 10 lbs. a A good me bran, barley meal or cott and corn, Lrs or bran, corr to which add of the last the ture when re

Feed For

I have a he condition. Ho the first few flesh as well N.R.R., Oxford In feeding

suggest a ra 40 pounds of clover hay. 1 sisting of t bran, 300 lbs corn meal, a feed about or to each four ed. As you you have on granted that

these feeds. During her the heifer sh milked for ni

March 16, 1911.

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

Rations Including Corn Ensilage

J. H. Grisdale, Dominon Agricul-turist, Ottawa Ensilage may be fed direc; to cattle just as it comes from the silo, but a better plan is to add to the ensilage a considerable amount, asy 10 or 15 lbs. of our Lay or chaffed straw to 100 lbs. ensilage. If floor space is a wail-when for the nurmes mying sufficient Ilss consilage. If four space is avail. able for the purpose, mixing sufficient cut hay or ohaf and ensilage to last several days (3 or 4) will prove to be a very satisfactory method of pre-paring foed for cattle and a method that they would seem to approve. Any meal to be role should be thrown on the mixture of straw and ensilage after it is in the manger. Stir the whole mass after sprinkling meal. An average cow will consume about 40 lhs. of such a mixture of ensilage and straw or hay a day.

Ibs. of such a mixture of ensilage and straw or hay a day. Corn ailage and straw or chaff, while together making up a most excellent foundation or base, do not alone con-stitute a sell-balanced or auitable ra-tion for any class of live stock. For bran and elevel or young abock some bran and elevel or young abock some ran base of the stock of the selded. A suitable ration would be be added.

FOR YEARLING HEIFERS	
Corn silage	lbs.
Straw or chaff 4 to 6	lbs.
Clover hay 4	lbs.
Bran 2	lbs.
FOR DRY COW	
Corn silage	lbs.
Straw 8 to 10	lbs
Clover hay 4	lbs.
Bran 1 to 2	Its.
FOR COW IN MILK	
Corn silage 45	Ibs.
Straw 6	lbs.
Clever hav A to B	Ibe

Meal mixture; bran, oats, gluten or oil-cake meal or cottonseed meal, equal parts. One pound meal to three or four pounds milk produced per diem.

STEERS RUNNING OVER WINTER . 1,000 LBS. WEIGHT

Meal-Starting at one pound go up

Meal—Starting at one pound go up to 10 lbs. a day. A good meal mixture would be corn, bran, barley and oil cake meal, gluteon meal or cottonseed meal. Take bran and corn, Lran and barley, equal parts bran and corn, Lran and barley, equal parts or bran, corn and barley, equal parts, to which add an amount of any one of the last three equal to one-quarter of the total weight of the meal mix-ture when ready to feed.

Feed For a Freshened Heifer

I have a heifer that freshened in good condition. How shou'd I feed her for the first few months to keep her up in fiesh as well as suttain her milk flow.--N.B.R., Oxford Co., Ont.

N.B.R. Oxford Co. ont. In feeding your heifer we would suggest a ration consisting of 30 to 40 pounds corn ensilage, 16 lbs. of clover by. Frem a meal ration, con-sisting of the following: 300 lbs. bran. 300 lbs. ground oats, 200 lbs. corn meal, and 200 lbs. of oil cake, feed about one pound ef the mixture to each four pounds of milk produc-ed. As you do not state what feed you have on hand we take it for granted that you can clain any of

The Forders' Corners of prolonged lactation. If heifers are rease, so that she will get the habit of prolonged inctation. If heifers are poorly fed and dried eff quickly in their first lactation period they will have a tendency to do this all their ******* working life. We should remember that at

We should remember that at no time during the period of lactation does a cow give such large returns in milk or butter fat for feed given as when abe is fresh. The same amount of feed will produce twice as much milk with a fresh cow as when the meriod of lactatics is cound with fluch milk wirk a fresh cow as when the period of lactation is considerably advanced. It is here that many dairymon make the mistake in feed-ing their cows. They start to feed as the cow decreases in milk flow rather than starting in from the very first to fend the own what he will first to feed the ccw what she will profit-ably consume.-E.

Silage or Roots For Dairy Cows

Which is the better crop to grow for dairy cows, corn or roots? I am planning to have 10 or 12 acres of hoe crop this year. Would it be advisable to erect a slio for 10 acres of corn?--P.L.R. Peter-boro Co., Ont.

The larger proportion of the hoe crop should consist of corn for ensil-age. Corn is the cheapest roughage age. Corn is the cheapest roug that can be grown on the farm. M experiments have shown that Many experiments have shown that the average crop of corn produces twice as much dry matter as would a crop of roots from the same area and that this dry matter is of equal value for feed, pound for pound, as is the dry matter of roots. In addition corn is much the channe area to spice the matter of roots. In addition corn is much the cheaper crop to raise, as practically all of the work can be done by hones power, while roots ro-quire thinning, which must be done by hand. Scme practical farmers have estimated that it costs three times as much to produce a pound of dry matter in the form of roots as in the form of corn. the form of corn.

dry matter in the form of roots as in the form of corn. Roots, however, have a value for mildo cows, that is not in-dicated by their chemical analy-sis. Roots possess a succulence not equalled by corn ensilage, and a few pounds added to the daily ration gives the cows better appetites and keeps them in a more healthy con-different than where corn alone is fed. We would suggest that of 10 acres of mangels. These should be devoted to mangels. These should be devoted to mangels. These preforable to turnings in that then epireforable to turnings in that the winter, eas-nips retting badly towards spring. Anyone growing 10 acres of corn should have a silo. It will add from

Anyone growing 10 acres of corn should have a silo. It will add from 10 to 20 per cent. to the value of the corn for feed as well as lessen the labor of feeding in the winter. A goed crop of corn from 10 acres would require a silo 12 feet in diameter and 90 or 95 feet in dominet a stop it. 30 or 35 feet in depth to store it.

It Pays to be Clean

It pays the agricultural journal to It pays the agricultural journal to keep its advertising columns closm. This may not be true if present finan-cial returns are the sole object of the paper's existence. But it is true of every paper that is worthy of a we'-come in the farmer's home. It pays the dairyman to be clean. Clean cows, clean stables, clean milk-ing transits clean milkers and clean milk-this is the kernets of success in dairvine.

in dairying.

It pays the	to sell only
seed that is	that is free
from weedsee	impurities.
It pays the from	wer to keep his
orchards cleanly	intervated and free
from destructive	fungus and insects

corn meal, and 200 lbs. of oil cake, freed about one pound of the mixture that injure the trees and cause the to each four pounds of milk produc-ed. As you do not state what feed you have on hand we take it for these feeds. During her first period of lactation, the heifer should be fed well and milked for mine or 10 months at

imperfect fuit in packages labeled Dairy and notice marked improve "No. 1." are in the same class—a ment each year. Each number seems diabonar to their occupation and an to be more interesting than the last imperfect fuit in packages labeled Dairy and house has a seems 'No. 1,'' are in the same class—a ment each year. Each number seems dishonor to their occupation and an to be more interesting than the last. abomination that has no rightful place in our civilization. I give each number to my neighbors and they greatly appreciate the ar-ticles.—J. D. McLennon, Kings Co., D. 1.



No Saving in First Cost Can Pay a Fractional Part of the Cost of the First Leak

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FARM AND DAIRY

Several trees in a young orchard have een girdled by mice. How can I save dese trees?-W.J.C., Prince Edward Co., nt

One. If the injury he slight or strips of hark are still left, it will be sufficient to cover the injured parts with graft-ing wax and bank the tree around with moist earth te prevent drying out; otherwise the hot sum would completely destroy the remaining hark

bark. Where the tree is entirely or almost entirely girdled, paint the wood thor-oughly with a good lead and oil paint. As soon as the sap begins to run take as soon as the sap begins to run take area, cut to a vedge at each end and carefully insert into slits made with a pruning kinfe in the live bark shows and below the girdled area. If eavies in the the string the cambium layers of the tree and seions tegether, these scions will grow and in time com-pletely cover the girdled area. On large trees one scion for each five



cumsen, canner, Kingston and Ot-tawa. Last year arrangements were made with the Department of Agriculture in the Department of Agriculture plane based at the Monteith Ex-plane based of the Monteith of the plane based of the Monteith of the plane based of the Monteith of the manual sector of Agriculture that in co-operation and augusting that in co-operation and that augusting that in co-operation and that augusting that in co-operation and that augusting that in co-operation augusting that in co-operation augusting that in co-operation and that augusting that in co-operation augusting that in co-operation augusting t

Best Apples for Brant County What are best varieties of fail and winter apples for Brant Co., Ont. F.-K. G., Brant Co., Ont. For all apples in Brant county, I would suggest a selection from the

age. The three best varieties of winter apples for Brant County can be se-lected from the following list without danger of serious error: Greening, Baldwin, King (top-grafted), Ncr. thern Spy.—Prof. J. W. Crow, O.A.C., Guelph.



A Cultivator Much Used on the American Pacific Coast Fruit Farms

A contrastor much other ten use sense that solar tents for a first sense to be a first solar tent of the first solar tent of the solar te

Mason, one of the largest fruit growers in Oregon. -Photo by Fred. J. A. Crow.
 inches of circumference is sufficient.
 On smaller trees more would be re-guired. The scions when instruction in the strangement gives hould be waved and tied first.
 With a girlled tree the supply of sap cannet be as large as it was the season before the injury and the large vitality of the tree. It will be advis-able to prume back the top severely this apring. In this way trees can be top will be an undue of the supervise be total loss.
 Ontario Vegetable Growers' Association in annual meeting in ronto, March Sth, again placed them solves on record as opposed to the rei-soried refers with the Duited States.
 The matter of obtaining good sever the a price paid for cauliflower sever the aprese paid for cauliflower sever the areasonable price was discussed.
 The matter of obtaining good sever the areason before cauliflower sever the areason before to the site of a reasonable price was discussed.
 The matter of obtaining good sever the a reasonable price was discussed.
 The three best varieties of winter

procity Pact with the United States. The matter of obtaining good seed at a reasonable price was discussed. The price paid for cauliflower seed in Demmark is 80 cents an ounce. The same is sold in Ontario at \$2.00 an ounce. This, the vegetable growers consider is too great an increase for the middle may to abaye. consider is too great an increase for danger of serious error: Greening, the middle men to charge. The matter Baldwin. King (top-grafted), Ner-of program geed is to be carefully thern. Spy_Prof. J. W. Crow, considered by the central executive. The election of officers resulted as follows: Pres. Thes. Delworth, Wester, is to for Pres., T. 6. Fuller, warda my subscription to Farm and Dairy theyer. I am well astified tor, J. Lockie Wilson, Toronto.
 Executive Committee: Thes. Delv

March 16, 1911.

Reekee PO 2000000

March

Farm

J. H. No bra mind is in eglected have e flocks en r summer find that farm was importance thing like tainly do tainly do equal te t

live stock. The pour a mixt of particular stablish Few farme winter mo and prices male bird a acted of thought of to mingle summer, y entirely an tion and r posed legisl

ease, large ent to an fowl of the the average making sta cient imper ing any att of the farm largely to hold to mak

"There s tendency in after the t in the mind more trivial portant in passed by. agriculture, cattle raisin tion in pre-

*An extract at the Guelp

HEL

At once for Ranch. Man provided and Single Man o with particu expected, etc., CRESCE Via Nelson

FOR SALE TWO CENTS A

PURE BRED in return for Farm and D subscribers w bred standar Manager, Fr

WANTED-Per us in waste sheds or cel Send for ill particulars.-treal.

ADVERTISER-ation of True Considerable ter, reference lingwood. Co

HARDWOOD use. George

FOR SALE-Ir Bails, Obain etc., all sisce, stating whas Waste and M street, Montr

ELM FOR SALE -J. H.

IHC Service Bureau What is it! A c ig house of agricu data. What do of Helps farmer Write the I H O



-A Few Good Agents Wanted

ONT.

DRUCES SEE

BRUCE'S BIG FOUR FIELD ROOT SPECIALTIES

BRUCE'S GIANT WHITE FEEDING REET. The most animable Field Root recepting the second se

FREE - Our handsomely illustrated 104-page estalogue of Vegetable, Farm and Flower Seeds, Plants, ilbs, Poultry Supplies, Garden Implements, etc., for 1911. Send for it.

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Half a million acres best selected lands in the Canadian North-

Stewart and Matthews Co., Ltd.

Special excursion in the spring to see these lands. Write now for particulars as to prices and location.

GALT,

west.

WHICH WAY ARE YOU PAYING FOR AN THC GASOLINE ENGIN

HERE are two ways-a quick, easy way and a long costly way.

The first way is to go to the I H C local dealer, pick out the style and size suited to your needs-pay for it-take it home and aet it to work. It will operate your cream separator, feed grinder, thresher, fanning mill, turn your grindstone, saw wood, etc.

The other way is to get along as best you can without it, and pay for it over and over again in the time and money you lose by not having it.

Procrastination is the thief of time," and time is money. An I H C Engine saves time-saves money. It's an investment that pays big dividends, day after day, year in and year out, through its capacity for doing work at less cost than any other power.

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are made in all styles and sizes, 1 to 45-H. P., vertical and horizontal-stationary, portable, and tractor. Their efficiency, economy, and dependability have been proved by years of service. Thousands of owners consider an 1 H C Gasoline Engine one of the hest navine functionary three ever made. best paying investments they ever made.

Dest paying investments they ever made. If you want to know more about what an I H C Gasoline Engine will do for you, and why it is that I H C construction insures more power on less gaso-line consumption than any other engine, you should call at once on the I H C local dealer, or, write for a copy of the I H C Gasoline Engine catalogue.

While you're delaying you are paying, why not have what you're paying

CANADIAN BRANCHES

March 16, 1911.

POULTRY YARD

Farm Poultry Neglected*

J. H. Hare, B.S.A., Whitby. No branch of farm work to my mind is in such an unprofitable and neglected condition as the poultry. Thave observed the condition of focks or many farms during the past summer. It was discouraging to find that the poultry on the average farm was not considered of sufficient importance to warrant giving it any-thing like proper attention. It cer-tainly does not receive attention equal to that given to other lines of live stock. live stock.

The poultry stock consists largely of a mixture of several breeds; no particular effort is being made to establish an egg laying strain. Few farmers secure eggs during the Few farmers secure or a during the winter months when they are scarce and prices are high. To secure a male bird for high. To secure a thought of. Male birds are allowed to mine with the flock during the summure with the flock during the summer, which, if avoided, would entirely amend the rotten eggs this tion and make unnecessary the pro-posed legislation re retten eggs. Dis-case, largely tuberculosis, is preval-ent to an atomishing degree. The flow for the farmer is looked upon by the average former from a revenue the average farmer is looked upon by the average farmer from a revenue making standpoint, as not of suff-cient impertance to warrant his giv-ing any attention to it. This branch of the farm work, therefore, is left largely to the women of the house-hold to make what the houseold to make what they can out of it.

after the things that look an inherent tendency in cur farmers to go out after the things that loom up big in the mind's eye. In doing this the more trivial things which are as important in the long run are as im-portant in the long run are often passed by. The bigger things in agriculture, such as horse raising, cattle raising, etc., receive his atten-tion in preference to what are usu-

*An extract from an address delivered at the Guelph Winter Fair.

HELP WANTED

once for work on Stock and Fruit nuch. Man and Wife. Furnished House ovided and everything found. Also ngle Man or good strong Boy. Apply th particulars of experieace, salary provided Single M with pa expected, CRESCENT VALLEY RANCH. Velson. Crescent Valley. Via Nel

BC

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD CASH WITH ORDER

PURE BRED FOWLS GIVEN AWAY FREE In return for new yearly subscriptions to Farm and Dairy. A club of four new subscribers will bring you a pair of pur-bred standard fowls. Write Circulation Manager, Farm and Dairy, Peterboro, Ont. Ont.

WANTED-Persons to grow mushrooms for us in waste space in gardens, yard sheds or cellars, \$15 to \$30 per weel Send for illiustrated booklet and fu particulars.-Montreal Supply Co., Mon treal.

ADVERTISER-English born, desires sit ation of Trust or control of Fruit Farr Considerable experience, highest chara-ter, references. Disengaged now. Co lingwood. Gowansville, Que.

HARDWOOD ASHES-Best fertilizer in the George Stevens, Peterboro, Ont.

FOR SALE-Iron Pipe, Pulleys, Belting Rails, Ohain Wire Fencing, Iron Post-etc. all sizes, very cheap. Send for His stating wha: you want. The imperia Waste and Metal Co., Deps. F.D. Queen street, Montreal

FOR SALE - Good Oockerels. Single Comb Black Minorcas, S. C. White Legborns,

Ross Comb Brown Leghorns and Rouen Durks. J. H. RUTHERFORD, Bos #2. Long Distances Phone. CALEDON EAST, ONTARIO.

as poultry.

FARM AND DAIRY

But when one stops to consider the But when one stops i. consider the results of some of the experimental work which is being carried on by Prof. Graham, of Guelph, who is, in his work, endeavoring to imitate farm conditions, he is at once struck with the large profits secured from a very small initial capital invested. For instance, from one pen of White instance, from one pen of White Leghorn Pullets, a net profit for nine months of \$1.53 a bird was made. Another pen of 23 Barred Rocks made Another pen of 28 Barred Recks made during a period of eleven months a net profit per bird of \$2.34. From still another lot of Rocks \$2.66 came from each bird as net receipts. I doubt it any farmer can shew as good results from any other line of live stock stock

The Incubator Record

MACHINE RECORD Day, Temperature, Ventilation, Moisture

Poultry Pointers

The quality of the eggs is govern-ed by the food the hens eat. A

well constructed house will be a saving in the feed bill.

One half as many nests as then are laying hens is a safe rule to fel-low with heavy laying stock.

The happy, contented, singing hen is the active hen, that helps fill the egg basket. Keep your hens busy if you want them healthy and productive

At many of the experiment At many or the experiment sta-tions of America, experiments have been carried on with wet versus dry feed, and the dry has been the preferable in the experiments made

The Incubator Record Prof. F. C. Elford, Macdonald The record cards used at Macdon-all College to keep track of the in-cubators are easily kent and give a fairly good record of the work of in-cubation. The accompanying card

litter should be supplied before lit-ter bedmes all breken up and filled with dead feathers and filth. More care should be given the litter and most of the grain should be fed in the litter during the winter months.

A Good Investment

You buy from me in March or April 100 eggs at \$15.00, from Standard White Leghorns. The Breeding Hens for 1911 are part of a flock of 402 pullets which in January. February and March established a record for flocks of that size by laying 23,-532 eggs. You hatch from these eggs about 75 chicks; you raise from these chicks about 35 pullets to the laying age.

Average care plus average experience will net you \$2.50 profit per bird for the year. (I made \$3.53 profit per bird selling eggs wholesale in 1910.) In addition to the net profit of \$2.50 per bird you still have the birds, worth more than \$1.00 each

S. G. HANSON HILLCREST POULTRY FARM

Box 147, Duncan, B. C.

Every Farmer Should Have One or Two Colony Houses

Colony poultry houses are well adapted to the farm flock of poultry. One more of these houses are required on every farm where poultry is kept if most satifactory results would be had. The illustration shows some of the colo houses at Macdonald College Que, drawn up in Y shape for white.

shows the form used, giving first the shows the form used, giving first the number of the incubator, number, of hatch, date set, etc. In the breed lines are found the names of the breeds kept, under which are placed the number of eggs set from each breed. The figures used are not actual, but are simply filled in to illustrate. The only difference shown in the breeds in the variation in number of cripples and number of chicks alive at two weeks of age, the Barret Rocks loa-ing five out of 55, the white Wyan-ditte loaing seven cut of the 27, ing nye out of 20, the white Wyan-dottes losing seven cut of the 27, while the Rhode Island Reds show no loss in the first two weeks. The daily record of the running of the incuba-tor is included below. It explains itself.

self. A record card of some kind is an advantage. Sheuld the hatch he ex-ceptionally good or otherwise, one can more readily trace the reason. If the chicks are healthy and strong or if the mortality is heavy, the record may throw considerable light on the question. The cards preserved from year to year whelp one to steer elser of pitfalls.

in waste space in garden. yarde, is or cellars, 515 to 530 per week. A for illimetrated booklet and full icularsMontreal Supply Co., Mon- I. RTISER-English born, desires situ- nof Tenets.	No. of eggs . 100 Infertile 20 Fertile 80 Blood rings 2	$50 \\ 10 \\ 40 \\ 1$	REDS 50 10 40 1	TOTAL 200 40 160 4
n of Trust or control of Fruit Farm. siderable experience, highest charac- references. Disengaged now. Col- wood. Cowansville, Que.	Left in incub 78 2nd test 6 Live germs 72	39 3 36	39 36	156 12 144
WOOD ASHES-Best fertilizer in George Stevens, Peterboro, Ont.	Total hatch 60 Cripples 5	30 3	$\frac{30}{2}$	$120 \\ 10$
SALE-Iron Pipe, Pulleys, Belting. 5. Obain Wire Fencing, Iron Posts, all sizes, very cheap. Send for list,	Good chicks in breader 55 No. chicks two	27	28	110
ng whas you want. The Imperial te and Metal Co., Deps. F.D. Queen t. Montreal	weeks old 50 % Fertility 80 % Fer.hatch'd, 75	20 80 75	28 80 75	98 80 75
ELM GROVE P	OULTRY F	AR	M	



Barred Rocks CANADA'S CHAMPIONS **Five-Dollar Cockerels** Birds of all ages for sale. Satisfaction guaranteed or money refunded. Satisfaction guaranteed or money refunded. JOHN PRINGLE, - LONDON, ONTARIO



trically-welded, solid frame gates. We make a full 'ina of farm fences and gater. Agents wanted. Write for full particulars,

Write for our book on Practical Poultry Raising. Besides telling all about the "Prairie State" line of poultry equipment, it gives a lot of valuable information. It's

Prairie State Incubator No. 0. -100 hen eggs-\$18.00 No. 1.-150 " " - 22.50 No. 2.-240 " " - 32.00 No. 3.-390 " " - 38.00 **GUNNS Universal Hover** With lamp, lamp case and smoke conductor \$7.00

GUNN, LANGLOIS & CO., LIMITED, 238 ST. PAUL STREET, MONTREAL "Gunns Prairie State Incubator Gets Chiz."

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Our readers are invited to ask questions in regard to write. Thus, will be answired in this depart-to offer herburg are also invited to offer herburg are also invited to your experiences through times co-ums.

Hogs

Jas. A. Russell, Northumberland Co. Ont.

The first point observed by the The first point observed by the successful swine breader is the selec-tion of the proper type of the selec-bread from. We always bread from a sow or boar with good constitution, with lengthy, smooth, deep sides with moderate width and hard finite bone, standing will up on their fault bone.

moderate width and hard finity hone, standing well up on their feet. If the sows are to be bred to the Loar in the fall we food them on ground eats at the rate of about one and a half gallons a day, half at night, and the other half in the morning. At noon we feed sugar heet mangels or the ordinary mangels. We do not pub them. It gives the sows mangels or the ordinary mangels. We do not pulp them. It gives the awas exercise breaking and eating them. The ground oats are either to be fed dry, or scaked with slop from the house; if fed dry, the pigs will need a drink both morning and night. **FEED FOR THE SOW AND LITTEE** We find in this was unstil after

Switch Department and the second seco

trough away from the sow and all other pigs. In winker we keep the sows in a large pen where they can exercise. In summer we give them a grass field by themselves away from all other steck. I do not approve of Mr. J. E. Brethour's plan of letting the sows run in the barnyard. They are apt to be injured by the horses and caring for the sow and selecting the stock are followed we will almost guarantee that every young pig will live. that every young pig will live.

Litters - Young vs. Old Sows

The Wisconsin station has made interesting tests to prove relative sizes and weights in litters from young and old sows, with astonish-Advertisement will not be hald for. Well and the received outs are either to be fed the ground oats are either to be fed dry, or acaked with op is will need bouse; if dry, the piss will need at farrowing time produced an aver-age of 92° piss per litter, with a bouse if the form the sing and night. We feed in this work of the start will here and the set of 27 pounds. From set fail coal operate the easily. Will LIARMS BROS. It have, the set of the set of 27 pounds the aver-to not offer her any food or drink will he gets up and looks for food. Will here sow was 258 pounds the weight per sow was 258 pounds the

worry no more about lightning

Lightning cannot harm any building roofed with Preston Shingles. That we guarantee to you when we sell you this perfected metal roofing. And you can be sure, too, that these shingles, galvanized so they pass the exacting British Government test for galvanized sheet metal, are good for the long years of satisfactory roofservice that you have a right to expect.

makes the cheapest good roof

Wood shingles, thinly sawn (not split) from trashy timber, are no longer a good roofing investment. For their life is brief, and their service never roof-worthy. Their furred-up surface collects dust and moisture from the start, and the shingles warp, crack, rot-and LEAK. Preston Shingles, with their heavy smooth galvanizing, are many times as cheap, in the long run, as choicest wood shingles, which are scarce and costly.

why the lock matters so much

We invite you to study every metal shingle made—if you will so study the Preston. For only so can you clearly see why our improve if the device that makes the whole roof storm and wind proof is far ahead of any other. It mat-ters much such that the lock shall be absolutely weather-proof-becausou that the lock shall be absolutely weather-ter with the lock of the lock shall be absoluted by the lock of the roof's owner is lock of the lock shall be absoluted by the lock of the shall be absoluted by the lock shall be absoluted by the lock of the lock shall be absoluted by the lock of the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be absoluted by the shall be absoluted by the lock shall be abso

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SIDING CO., Limited Dover Street Factory PRESTON, CANADA

Branch Office and Factory, Montreal, Que.

March 16, 1911.

average number in a litter was 5.5 pigs, and the average weight of litter 14 pounds.

litter 14 pounds. Sow between the ages of four an in-the years averaged nine pigs to litter as a weight per litter of 2-pounds as weight per litter of 2-pounds in average litter of 7.5 pigs, which are a seen as a seen old produced litters of 7.8 pigs, which as average weight of 14.2 pound-per litter-From Coburn's "Swin-in America." Price through Farm and Dairy 82.60. and Dairy, \$2.50.

12 Year Old Boy Wins Pig

12 Year Old Boy Wins Pig Recently, Master Alonzo Strong, who is al years old, living in Ox-ford Co., Ont., sent Farm and Dairy a club of nine new subscribers each for one year and in return for which he received a pure breed Poland China Boar prg. This pig was purchased by Farm and Dairy from Mr. Gowan Malet, of Leamington, Ont. Moving letter: "I thank you very much for my prize pig. I am very put of of it. Daddy says that it is one gott it. I am 12 years old on the 20th of Decomber, and I go to chool every day. We like Farm and Dairy very much, and we wish it very

Our Legal Adviser

PENALTY FOR UNNECESSARY OPER ATION.--What is the penalty if a doc tor performs an operation on a permo-when it is not necessary?--G. C. Norfok Co. Ont. A doctor is not authorized to per-form an apagation prova a cationt of

A doctor is not authorized to per-form an operation upon a patient ex-cept with the consult of the patient, and if the cerestion is unnecessary, he may or may not hable for mail-practice. It is malpreading induces the is part in performing the dogment on the would also be liable to periton. He would also be liable to a crimi-nal prosecution for assault if he operated without consent.

MONEY UNDER PAISE PRETENCE. COLLECTION OF WAGES-What is the penalty for a person setting money un-see of protence? If a son under the see of protence? If a son the collec-them or his parents - K. G. Brant Co. Ont. The penalty for obtaining money under false pretences is imprisonment for three vers.

for three years.

A son under the age of 21 years A son under the age of 24 years earning wages can sue for and collect the wages himself, and his parents also may do so if the infant does not

HOLIDAYS-EXPENSE OF SUIT .-- Wou

HOLIDAYS-EXPENSE OF SUIT.--Would I have to bear the expenses or costs if 1 and a symma for the use of my horse, as per may give in a recent issue of Parm and Dairy? in a recent issue of for a man for 7% months. What date is my time in? Can I claim holidays after withing, saying nothing about it before*-tor a man for 1% months. What date is my time in the say of your horse of the saying nothing about it before*-with the state expense of the your own lawyers the court costs and your own lawyers the symma for a for the costs paid leasy of your lawyer's fees will be receverable from the defen-dant.

dant. If you commence to work for your employer on the 30th day of March for seven and a half months your time will not be completed until the expir-ation of seven and a half months. If you are working as a farm laberer you can claim the ordinary public holidays subject to the doing up of a reasonable amount of chores, but you canned claim a yacation. cannot claim a vacation.

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March 16, 1911.

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Plan of a Breeding Crate

FARM AND DAIRY

All ready

ABICULTURE Market and propare for next immer's work. If it is our inten-tion to increase in the bar business, to advect bar is a discount law of or order of advect, and with to be avenue in the search of the maximum and with to bar the writer, preperly protected either in the cellar or out of dors, and with aufficient stores to last them till the divers blown in the search of the maximum and the maximum and the the search of the maximum and the the search of the maximum and the the search of the maximum and the maximum and the search of the search of the maximum and the search of th A Bee-Keeper's Work in Winter Jas, Horor, Tictoria Co, Ont. It is to be assumed that the careful bee-keeper has then use put away for the winter, preperly and the second second sufficient stores to last them till be flowers bloom in the season of 1011. After being satisfied that all is well with the bees, they should net be dis-tarbed till about the middle of April in this identify. or even latter in some

Many different kinds of hives are made and it is difficult for one to de-cide which style is best for their recide which style is best for their re-quirements. Information as to a good selection of hives may be gotten from practical beckeepers and bee journals. Orders should be sent for comb foun-dations, after one has decided on plans for the summer work. I have knewn of hee keepers being short of found dation when the maker were crowded with orders and couldars were crowded with orders and could not fill them for several weeks. And there is nothing more anneying to the bee-keeper than waiting on comb foundation when the bees are doing their best and through his own neglect he is holding the bees idle

Items of Interest

Items of Interest An increase in the population of Canada over that of the last official census of 1901 of at least 50 per cent, has been estimated by Mr. Archibid Blue, Census Commissioner. The work of taking the census will be common-eed on June 1. According to Mr. Blue's estimate the census will show the total population of Canada to be 8,000,000. In 1901 it was about 5,371,000. 5,371,000

The search of th among the bees. Yeu may have had good success with some hives and al-mong the bees. Yeu may have had good success with some hives and al-movide for the lock seeper to study bee journals. REFAILING THE FLANT Then there is always a certain ing out and requires to be repaired amount of the bee keeper to study REFAILING THE FLANT Then there is always a certain ing out and requires to be repaired theous for the bee keeper to study and renewed. Hives get knocked about framwes and supers all require cleaning and putting in order. We



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RENNIE'S SEED IF YOU WANT THE SEEDS GET THE CATALOG DEALERS EVERYWHERE SELL RENNIE'S SEEDS THE FINEST IN THE LAND. WRITE NEAREST ADDRESS FOR CATALOG

WMRENNIE COLIMITED, TORONTO, MONTREAL, WINNIPEG, VANCOUVER. **MAKE YOUR OWN TILE !**

One Man can make 300 to 600 Perfect Tile a day by hand and 1200 by power, on our FARMERS' CEMENT TILE MACHINE

At a cost of \$4 to \$5 per 1600. CAN YOU AFPORD TO BE WITHOUT IT Machine makes 1, 4, 5 and 6 inch tile. 12% inches iong. Our waterproof FLEXI-BLE CASING holds tile in perfect shape till set. NO

TEN DAYS' FREE TRIAL. If after ten days' trial it does not moet with entire satisfaction return at our expense. Write to-day for illustrated catalogue.

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A Handsome Pig.-I am the proud possessor of a handsome Poland China fat and handsome pig. I am only 15 set fat and handsome pig. I am only 15 and Dairy for securing a club of nine of securing a club of nine and Dairy, and enaider it the best pig was there by Mr. 6. G. Gould, in every farmer's home.-Geo. H. Edgars' Mills, Ont., and is a dandy.

World's Greatest Separator Standard CREAM SEPARATORS DO Skim perfectly DON'T with milk cold or warm. Whip the cream, Give cream that Froth the milk churns easily Clog when milk and makes is cold. good solid Let slime and butter. disease germs Purifythe cream go out in the Retain all foreign cream or skim matters in the milk. bowl. (\mathbf{z}) Protect the calves from many diseases. "STANDARD" Sizes, prices and terms on application. If you have 500 lbs. of milk to skim at once, the STANDARD will skim the last 100 lbs. as well as the first, and still thoroughly cleanse WANTED Inquiries from every farmer interested in Separators. Good agents in unrepresented districts. WRITE FOR FREE CATALOGUE The Renfrew Machinery Co., Ltd. RENFREW, ONT. A good Cream Separator made at home is of more value to you than a good Cream Separator made abroad.

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Water Storage and Stock Wa-tering Tanks. Thresher Tanks, Pank Hesters. Hog Torughs, Pank Hesters. Hog Torughs, Water Storage Storage Storage Tanks. Were. Oil and Gasoline Tanks. Were. Oil and Gasoline Tanks. Were Storage Storage Catalogue B on request. We datalogue B on request. We datalogue B on request. We datalogue S of Storage Gasoline Pumping & Orlinders, Gasoline Pumping & Orlinders, Ask for estalogue No. 58, etc. The Heller - Aller Co., Windsor

In the B. C. Provincial Dairy Farm Competition Mr. Alexander McQuarrie, of Armstrong, won the liver Medal. See what he says about our Litter Silver Medal. Bee what he says about our Latter-Carrier. "We are very much pleased with carrier. It used to take us one and a half hours to clear stable with two men. Wo do it now in 35 minutes and Writers as hard." (In the stable of the set of the Writers as hard." (In the set of the set of the set of the writer and we will cheerfully give you an estimate of the cost of an outfit. DEN LITTER CARHIER LOUDEN MACHINERY CO., GUELPH, ONTARIO Manufacturers of Barn and Stable Equipments.

That Sir Wm. Van Horne was not speaking for the Board of Directors of the Canadian Pacific Railway when he denounced the proposed reuprocal agreement is the statement now made by Mr. G. M. Boswell, Vice.President of the Canadian Pacific Railway for the Canadian Pacific Railway company is Sir Thos Shaughnessy, the president of the Company Pacific Rail-worth. "The Canadian Pacific Rail-way Company cannot say what the other way Company cannot say what the stress way Company cannot say what the ef-fect of reciprocity will be and certain feet of reciprocity will be and cortain-by the company are not taking any stand for against it." The idea that the proposed agreement will ruin our traverse the particular was not taken seriously particular was not taken seriously particular was not taken find," said he, "that the Canadian Pacific Railway Company will con-tinue to do business on the old stand. We have no reason to fear any rail-road en this continent."

On being pressed by a number of Canadian seaators for his opinion as te the effect of reciprocity on the Can-adian grain growers, F. T. Heffelfing, er, of Minneapolis said that reciproc-ity would advance the price of wheat to the farmers of Western Canada, ardesse-like would it affect the lower ardesse. With the duty off and a free erican bayers would go into the Can-adian bayers would go into the Can-adian bayers would go into the can-adian bayers would go into the the wheat directed frame before it recend inspection prints. The re-sult would be that whereas to-day farmers were paid by grades antirely, farmers were paid by grades entirely, there would be purchases made and Prices made cn values between the prices made cn values between the present grades. Between No. 1 and 2 there was a difference of between two and three cents, and between No. and No. 3 there was a drop of seven r and to, a there was a drop of seven cents. Although a car of wheat was near the No. 2 specification, the in-spector had no option but to declare it in the next lower grade and worth seven cents less. In his opinion, Am-erican mills would give for such grain erican mills would give for such grain a price four to five comts higher than the standard quotation for No. 3. Wheat which had been injured in color by wet, but had lost norm of its four-making value, now got no of its and was bought by Canadian millers at considerable reduction in neige He at considerable reduction in price. He thought that with more competition from American buyers the price to the farmer would be considerably increased.

Mr. Heffelfinger and a number of others who represent Minneapolis grain firms doing business in Canada were in Ottawa last week to protest against the grain bill and at a gather-ing of Canada nus through the data is the grain bill and at a gather. ed that if Canada puts through the Grain bill in its present form, large investments of capital, which they have made in Canada, will be wiped

A Traitor Down East (Toronto Globe)

There is a conspirator down east Mr. J. R. Anderson who needs the careful attention of Col. Denison and The To-ronto News. He is Treasurer of the Eastern Ontario Dairymen's Association, which by unanimous vote memtion, which by unahimous vote mem-oralized the Government in favor of reciprocal free trade in all lines of dairy products between the Dominicn and the United States.

and the United States. This conspirator Anderson contrib-uted the following base, unworthy, un-particitic and altogether treasonable remark to the discussion: "I have 35 Brant Co. Ont.

Good Roads Convention

City people are awakening to the influence which good roads in country districts exert on the prosperity of both city and country and at the an-nual meeting of the Good Roads As-sociation in Toronto recently many

sociation in Toronto recently many townsmen took part in the program although the Good Roads Association is primarily an association of farmous. Resolutions were passed at the Pro-vention recommending that the Pro-vincial Government increase the ex-unditare an evanty roads from our ponditure on evanty roads from our Vincial Government increase the ex-penditure on county roads from one-third to one-half of the cost of ecn-struction, that the Province cooperate with the counties in the maintenance of these roads; that the provisions of the Hichway Improvement Act be exthe Highway Improvement Act be ex tended to townships in counties in which county road systems have been established; that a system of provincial highways be assumed and built by cial highways be assumed and built by the province; that funds to be devoted to the improvement of highways should be diverted for the purpose of aiding farmers in laving tile drains, and that, in the opinion of the As-sociation, a Highway Commission shueld be appointed for Ontario.

shuch be appointed tor Unitario. The addresses given covered a wide field. The good roads movement in Ohio was explained by N. N. Maxwell, of Cleveland. Road improvement in Ontario was dealt with by J. F. Boan, Back Croade alt with by J. F. Boan, Ontario was dea't with by J. F. Dean, Black Creek. Road systems was the sublect of en address by W A Mc-Lean, Provincial Engineer of High-ways, and highway bridges from the invasiment point of view was dealt ways, and nighway bridges from the investment point of view was dealt with by C. R. Young, Toronto. Major Sheppard spoke of roads in Quebec and Geo. Diehl of Buffalo explained how roads were managed in New York State.

The Farmer's Institute Train

One of the most successful under-One of the most successful under-takings in connection with Farmers' Institute work was the "Good Farmers' ing Special Train," which was amo by the Ontario Department of Agri-culture over the lines of the Michigan Central Railway in South Western Ontario during the past two weeks. Large crowds of farmers met the train at every stopping noints and as many at every stopping point and as many as 1 200 people visited the train in

as one day. Short, crisp addresses or given by such Short, crisp porresses or practical subjects were given by such men as Prof. Geo. E. Day, Prof. C. A. Za-vitz, and such practical farmers as Henry Glendinning and Anson Groh. Henry Giendinning and Anson Groh. About a dozen speakers and domon-strators, mostly from the O.A.C., ac-companied the train. Dairying and fruit growing were given a good deal of attention. A great array of equip-ment for unroses of demonstration were on exhibition in the cars. For the Lenefit of those interested in hor the tenent of those interested in nor-ticulture, spraying machinery was on exhibition and cards were distributed smong the visitors on which were printed the best varieties of all fruits

printed the best varieties of all fruits commonly grown that were adapted to south western Ontario. This "Farming Special" was made possible through the cooperation of the Michigan Central Railway, which furnished three baggage and three passenger coaches and attended to the advertising of the mething. Good passenger coaches and attended to the advertising of the meetings. Good farming specials have become quite common in the United States and have been used in Western Canada. Their first entry into Ontario has been such a success that more will prohable such a success that more will probably be heard of them in future

March

Experies

J. C. We have over 30 ye every sta the busin remember troughs of the trees ing a ced The sap w ccolers to the trees would get long pole. two trees and on it coolers as

remember dark or r cinders fa how it w thought it came a tin made out ere a gr old spile a ket would ay. The upset way. then got a on a large improveme small end be swung the syrup ease. This lot of woo cheap then

The nex large pans and the me ket was hi could be no In 1893 v ator,—a Gr machine.

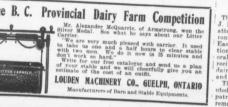
make a sa with a mac We used it night and as far as qu then traded ger one of be some ti prove on th

Three yea offered to s If at the e not think selves we w them. We needed a h the older c dry out as a an extra a equivalent t We then p entire bush Last year kets with co sap from the days much open buckets GAT

To bring tave a mola sleigh. Wit bush the gat a very big je The sap i tank frem r tank smaller tank pan. The s through each

one where in We test it w when at the we run it of strained thr can. where i settle. We heat, finishin the woods.

MARE We have | long that the play. We output to our Our price to



sell th United months greater

March 16, 1911.

Lyperience With Maple Syrup J. C. Stuart, Russel Go., Ont. We have been making syrup for over 30 years, and have governous of the business up to the present. I remember when my father made troughs out of Lasswood and tapped the trees with a two inch gouge, us-ing a codar spile to eatch the say. The say was then carried in pails to coolers to be made into syrup. We would get 2 crothed sticks and a long pole. This pole was held against two trees with the crothed sticks, and on it was hung the large metal

long pole. This pole was held against two trees with the crotched sticks, and on it was hung the large metal coolers as they were called. I do not remember whether the syrup was dark or not. With the smoke and the structure of the second the struc-ture falling into it I do not see hought it will be otherwise. We thought it will be otherwise. We though it of harrel hours or the ware a great improvement our These were a great improvement or the way. The trough was very apt to be upset by the snow melting. We then got a large potash kettle hough a large cantilever. This was an improvement, as by catching the small end of the pole the kettle could be awung awa from the fire when the sorup could be taken out with es. This kettle, however, teas leap of wood. Wood, however, was cheap then, and that did not matter.

cheap then, and that did not matter.

NEW IMPROVEMENTS The next improvements were the large pans and a brick or stone arch and the metal spile to which the buc-ket was hung. We thought there

In 1898 we bought our first evapor-ator,—a Grimm. We were new to the machine. The agent was anxious to make a sale. We found ourselves with a machine too small for our use.

with a machine too amall for our use. We used it 10 years, but had to boil night and day. It gave good results as far as quality was concerned. We then traded our eraporator for a lar-ger one of the same make. It will be some time before they can im-prove on the present machine.

ket was hung. We to could be nothing better.

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Three years ago the present machine. INTROVED STILLS THEORED STILLS THEORED STILLS Three years ago the Grimm people offered to send us 100 spiles to try. If at the end of the season we did not think they had paid for them-selves we would not have to pay for them. We found that these spiles needed a bole only half the size of the dider cnes. The trees did not dry out as soon, and we believe that an extra amount of san was run squivalent to the value of the spiles. We then purchased enough for the entire bush of 1,000 trees. Last year we bought 100 new buc-kets with covers and we find that the sap from these is cleaner and on hot days much sweeter than from the open buckets. GATHERING THE BAF onac nd ip. To bring the sap to the camp, we have a molasses hogshead fixed on a sleigh. With roads cut through the bush the gathering of the sap is not on on ed ĸ

much the gathering of the sap is not a very bick the same in the same is a set of the same The sap is strained into a large tank from which it runs into a smaller tank, which feeds the into a smaller tank, which feeds the same through each pan until it reaches the one where it is finished into syrup. We test it with a thermometer, and when at the hest indicating ayrup we run it off, and when hot it is strained through felt into a milk can, where it is allowed to cool and settle. We do not again strain or heat, finishing the work completely in the woods. the woods. MARKETING THE SYRUP

We have been in the business so long that the marketing end is only play. We sell about one-half our output to our neighbors at the camp. Our price to the farmers and retail

GATHERING THE SAP

Experience With Maple Syrup dealers in the city of Ottawa is, year Generations in the city of Ottawa is, year in and year out, \$1.00 a gallon. We gather the sap every day that it runs and finish each run that day. We find that to get a good color we must not allow the sap to get old. We must keep it going once the fire is started until all on hand is made

A CLEANER SYRUP

With the evaporator everything is clean. There is no smoke and no inders. As the sap is not touched clean. There is no smoke and no cinders. As the sap is not touched from the time it is poured into the big tank until it is in the milk can there is very little fear of not having a good article. With an evaporater of the correct size the sap can be boiled into strup as fast as gathered. This chose is a hir item in favor of

holded into server as fast as athered. This alone is a big item in favore of the evaporator, as in the old way it was all day and all night. When we got the evaporator first Ottawa was our only market. We found it hard to discusse of the syrup. It was so much brighter than the syrup made the old way that it was thought to be adulterated. Time changed all that, however, and now nothing but evaporator syrup can be sold at all on the Ottawa market. Whether it is the improved goods

sold at all on the Ottawa market. Whether it is the improved goods or not, it is a fact that syrup made in the old way used to be sold from 45 cents a gallon up to 75 cents. The price now is from 50 to 100 per cent. higher. We believe that the im-provement in the quality of the goods has enhanced the price of the pro-duct. If a man is going into syrup making it will certainly pay him to get an evaporator, as it is a time and labor saver, and ensures a better article than when made in any other way. way.

IT IS PROFITABLE

IT IS FROMTIALE We have invested in equipment as follows: 1,000 buckets, \$150; erapor-ator and outfit, \$185; camp, \$100; making an outlay of \$435. We spend 2 weeks each year with 3 men in the Lush, and use from 30 to 50 oords of wood. We have never had less than 300 gallons of svrup to sell, making an income of \$300 on an investment of about \$500. The work comes at a time of year when nothing else can be done outside of chores. We con-sider our investment in syrup mak-ing facilities a very profitable once indeed. The main points about making

The main pcints about making good syrup are cleanliness and speed. Buckets, pans, and so forth must be kept clean. Sap must be strained and the machine kept going for all it is worth. The scoper the san is and the machine kept going for all it is worth. The sooner the sap is boiled down, the clearer the syrup and the better the flavor.

MAILED FREE

DAN PATCH 1:55

AS LIFELIKE AS IF YOUS AW HIM ON THE TRACK HITCHED TO SULKY AND READY FOR A MILE IN 1:64

ANY-YAHO BEADY DOT THE READY ENDOLED TO THE READY E

Breeding Farm ten miles from Minneapolis, and see the prac-ry day use of the greatest purely vegetable animal tonic ever is constantly used and strongly andersed by over Two Million of chosen and Herse Breaders of the world.

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THE CHART ANIMAL TONIC to add by over 1000.00 charts on a sign of a grantable that here are one to an easier as a set of at 200 errs in easy or has prompty rhould be added and the set of the set of the prompty rhould be added and the set of the set of the prompty rhould be added and the set of the set of the prompty rhould be added and the set of the set of the prompty rhould be added and the set of the set of the prompty rhould be added and the set of the set of the prompty rhould be added and the set of the proof constitution of the set of the set of the set of the proof constitution, and a the formation flow for the processes statistication, and and the set of the proof constitution, and a the formation flow for the processes statistication and methy. If the set of the provide the set of the provide the set of the provide the set of the set of the set of the set of the provide the set of the etc., and is equi animal obtain fed but the set stock in good co

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THE U.S. TARIFF ON BARLEY

During the year previous to the McKinley tariff, which raised the duty on barley from 10 cents to 30 cents a bushel, Canada exported to the United States by way of the Port of Oswego alone 11,000,000 bushels at a price of 80 cents to \$1 a bushel. The year after the enactment of this tariff only 2,000,000 bushels of barley were shipped; in the year 1910 only 147,000 bushels left Canada for all points in the United States. Following on the McKinley tariff land along the lake front, which during the 'Larley days' had been worth \$100 to \$125 an acre, dropped in value immediately-in some cases 50 per cent.

Canada produces malting barley of a quality the equal of which cannot

this reason American brewers will take a proper interest in the politics compounds of foreign sugars. Ever

for their own home grown barley. The duty, however, makes the price of Canadian barley prohibitive to them. With free trade in barley, however, the trade that once flourished will again be re-established.

The readjustment of the barley market will not be a detriment so the development of intensive farming in Canada as many would have us believe. Barley is one of the best crops with which to seed clover or alfalfa, and the use of these leguminous crops is at the basis of successful farming. Although under free trade no barley will be fed on Canadian farms, we should remember that one bushel of barley shipped to the United States will buy two bushels of corn in the United States. This will mean that more corn will be fed in Canada, and the fertility of our soil will be increased rather than decreased by the building up of a prefitable export trade in barley.

Last year in Ontario alone, there were produced 19,000,000 bushels of barley. Were the value of this barley increased by the full amount of the duty which now rules, the value of the crop will be increased \$5,700,-000. Did the value of the crop increase under free trade with the United States, only one half the amount of the duty would be an additional revenue of \$2,850,000 to Ontario farmers on this crop alone. Barley will be advantageously affected by free trade more than most other lines of agricultural produce. Practically all of our natural produce, however, will thereby be increased in value.

NOT POLITICAL IN ITS NATURE

The Grange is a farmers' organization. It is not political in its nature. It does not endeavor to establish a third party. It does not urge Conservatives to cease being Conservatives or Liberals to cease being Liberals. It proposes simply to have farmers meet together to discuss what they consider to be in their best interests, and then to lay their platform before both political parties for appreval, as the farmers in the west have been doing.

The articles in the constitution of the Grange covering political relations emphatically assert that the Grange is not a party organization. No Grange, if true to its obligation, can call political conferences nor nominate candidates, nor even discuss their merits in its meetings nor permit any discussion upon questions upon which its members stand divided by party lines. The principles taught by the Grange, however, underlie all true politics, all true statesmanship, and if properly carried out will tend to purify the whole political atmcsphere of our country. The Grange seeks the greatest good to the greatest number; but it must always be borne in mind that no one by becoming a member of the Grange gives

The remodelled Grange, as we now have it in Ontario; is worthy of the support of every farmer. On account of its social and educational work, which is its main reason fcr existence, as well as for the influence which as an independent farmers' organization it can bring to bear upon the powers that be, we farmers owe it to ourselves to become connected with it. The Grange affords us farmers in Ontario the only means available through the machinery of which we can make ourselves effectively heard. Farmers' clubs are good, but they are unorganized units, and for that reason have not the influence or cohesion of the Grange

PROTECT PRODUCTS OF THE MAPLE

Just now when producers of pure, unadulterated products of the maple are anxiously considering the market for their products, these producers can appreciate the full force of the text of a pamphlet on "The Maple Syrup and Maple Sugar Industry of Canada," which pamphlet has been written by Mr. John H Grimm, of Montreal. The maple industry, which by nature is almost the monopoly of the farmers of Quebec, Ontario, New Brunswick, Nova Scotia, Vermont, New York, New Hampshire, Pennsylvania and Ohio, and which represents to the 45,000 Canadian farmers actually interested therein a considerable sum of money, would represent several times as much if the farmers interested in the matter were properly protected by law and if the farmers appreciated the possibilities of the industry when conducted upon modern methods.

As our law now stands, the pure products of the maple must compete with adulterated products manufactured independently cf maple trees. It is stated as a matter of fact that more "maple syrup" is "manufactured" in the city of Montreal and in other large cities of Canada than is produced from the trees in the whole province of Quebec. Were producers of the real article freed from the competition of bogus maple syrups and sugars, a good stroke of business would have been done for the legitimate industry. Furthermore, people whe buy maple products have a right to know what they are buying, hence it is greatly to be desired that something Le done in Canada to give the maple industry a fair show.

Petitions are now being circulated asking the Minister of Agriculture to so amend the Adulteration Act as to give pure maple products sold in Canada greater protection against adulterated syrups and sugars, and to this end the petition asks that it be made illegal to have the word "maple" or any of its derivations appear in the labels of any packages of should not hesitate to let our local a quality the equal of which cannot up that inalienable right and duty, the same be guaranteed absolutely effect be grown in the United States. For which belongs to every citizen, to pure and not a mixture containing tive. the same be guaranteed absolutely effect, be they Liberal or Conserva-

March 16, 1911.

Farm and Dairy reader interested i the maple industry would do well t write Mr. Grimm for his pamphlet and sign the petition and return ; early, since it is desired to bring thi matter to the attention of the Mini ster of Agriculture during the present session of Parliament.

SALARIES OF DAIRY INSTRUCTORS

An increase in salary from \$1,000 to \$1,200 for dairy instructors and sanitary inspectors requested of the Ontario Government should be granted. Heretofore, these employees of the Department of Agriculture have been underpaid. Out of the sum allowed them, instructors have had to pay their own expenses, which involves the keeping of a horse.

This question was brought up by the Eastern Ontario Dairymen last January in their meeting at Perth, and the directors of the Association decided to ask for this increase for the instructors. It was pointed out that the expenses of the instructors are heavy and the sum paid them was quite inadequate.

It is reported that there is a considerable number of men ready to take the instructors' work at the current salaries. It is not an easy matter to secure competent men for this work, however, and in order to maintain the efficiency of the staff, this increase of \$200 a year should be granted. We need to retain the services of as many of the present instructors as possible, who have shown themselves to be competent for their work.

Premier Whitney has anneunced that the Ontario Legislature will be asked to pass a resolution condemning the proposed freer trade nego-

tiations that are in An progress between Can-Impertinence ada and the United

States. The Conservative Governments of Manitoba and British Cclumbia have already passed similar resolutions. It is to be presumed that the Liberal Governments of Quebec and the Maritime Provinces will pass similar resolutions, but upholding the arrangement. Resolutions of this character are nothing but an impertinence cn the part of members of the Provincial Legislatures. These representatives are elected to the Provincial Legislature to transact provincial business only. They have no more right to pass resolutions condemning the actions of the Dominion Government than the Dominion Government would have to pass resolutions condemning the actions of the provincial governments. Resclutions of this character are nothing but an attempt to influence public opinion for political purposes. We are perfectly well able to form our own opinions without interference of this sort, and we representatives hear from us to this

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March 16, 1911.

-----**FARMERS' RIGHTS**

No one man in Canada has fought the battles of the farmer more per-sistently and successfully in season and out than W. L. Smith, the edi-tor of the Weekly Sun, Toronto, who has long been identified with the Do-minion Grange, and to whom more than to any other man belongs the credit for the success of the Farmers' movement, which is attracting such general attention throuthout Canada credit for the success of the Farmers' movement, which is attracting such general attention throughout Canada. In his special line of agricultural journalism, Mr. Smith is without an habit of visiting farms in all sections of Ontaric, often taking leng trips through the country on his bicycle. In this way he has gathered first hand information from farmers and been lrought into closer relations with the problems of the farm and with agri-cultural cenditions generally. Through his paper, the Weekly Sun, in which the late Goldwin Smith was financially interested, and to which he contributed regularly, Mr. Smith has lought for the interests of the farmers without fear or favor. He possibly has as many people who dislike him among the politicians cf



W. L. Smith

both political parties, railway mag-nates, manufacturers, and others whose interests have not always har-monized with those of the agricultu-ral community, as any other one man in Canada. But against this, he has the loyal support and friendship of the loyal support and friendship of spirit and his loyalty to the far-mers' cause.

of spirias and his logith to the far-mers' cause. For many years Mr. Smith has pointed out the great advantage it would be to the farmers of Canada to have free access to the great mar-kets of the United States. When most other papers in the country had given up the fight as hopeless, Mr. Smith kept hammering away at the cause. A few years ago when the Canadian Manufacturers' Association were petitoning for a further in-crease in the tariff. Mr. Smith was largely instrumental in organizing the deputations of farmers that wait-ed on the tariff commission, and

The deputations of farmers that with the deputations of farmers that with ed on the tariff commission, and which resulted in net only the tariff not being increased, but in its being reduced in averal important respects. To Mr. Smith is largely due the credit for the establishment of the Dominion Railway Commission. For years he pointed out the grievances farmers and fruit growers suffered from at the hands of the railways in excessive charges, unsatifactory ser-vice, and from other similar causes. He published hundreds of specific cases to prove his cause. The matter was finally taken up by other news-

FARM AND DAIRY

papers and by the politicians, and in the end resulted in the appointment of the railway commission. Largely through his efforts also, railway taxa-tion has been increased, althrough it is still far from being what it might be. His work also was mainly in-strumental in railways being com-pelled by law to allow farmers to drain their water across their tracks, without its being necessary to gain the consent of the railway company. In the same way he was instrume-In the same way he was instrumen-tal in obtaining legislation compelling railway companies to prove neg-ligence on the part of the farmers when stock are killed on the railway tracks before they can refuse to pay

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Our Men With the Hoe

(Edmonton Journal.)

(Edmonton Journal.) The excursion of the farmers from the west to Ottawa has a significance apart from the ideas which they pre-sented to the Cabinet. They tra-velled in large numbers and in a spe-cial train provided with every com-fort. It used to be that when they cial train provided with every com-fort. It used to be that when they sought anything at the hands of pul-lic bodies they pulled long faces and talked about the 'poor, down-trod-den tiller of the soil.'' There was nothing to suggest 'The Man With the Hoe.'' however, about the men who througed the chamber of the House of Commons the other day. As a matter of fact, the western far-mer has come to regard himself as quite on an establish with men in other callings, and quite as much en-titled to the good things of life as anybody else. When he asks a Ger-ernment to grant something, ho does so simply because he believes that he is fully entitled to it, not as a chari-table dole. He comes before it on the same basis as does the manufac-turer, the merchant or the profes-sional man.

Up to a certain point, all the food that a cow eats goes to keep her body. It is only the feed given over and above this noint that yields the diryman a profit. It is false econ-omy to hold hack the feed which yields the profit.—Hy. Glendinning. Ontario Go., Ont.

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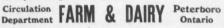
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tere is a good opportunity in our town nyone posted in the creamery business by or operate the Vermilian Creamery Estrict has advantages in farming and lines and the creamery plant can be a successful earner from the start by ght man. Write J. A. Roseborough

VERMILION, ALBERTA



Are the producers doing the same? Are not too many of them taking just such care of their cream as they think necessary to pass the maker's inspection. We cannot produce firstclass butter or get the first-class price

while one party only is doing his best. Both maker and producer must co-operate if our butter is to be class-ed as finest in committion with other ed as finest in competition with other countries.

FARM AND DAIRY

countries. Butter making is a critical opera-tion. It is easy to go wrong. Such being the case, we should have the sympathy and ecoperation of all pat-rons. Instead of this we are often criticised and put down as dishoneat to an eriticise and put down as dishoneat men. Creamery and cheese men are men. Creamery and cheese men are upright and honest, and we are do ing our best to give the patrons good returns. All that we ask is that the patrons cooperate with us and do their part by taking proper care on the milk or gream us the case may the milk or cream, as the case may

The Care of Cream

C. E. Lee, Experiment Station, Ur. bana, III.

As soon as the cream is separated, it should be cooled to the temperature it should be cooled to the temperature of well water. Never mix warm cream with cub the cool each skimming be-fore mixing with the cream already on hand. Diverse the cream at least three or four times a week in summer and two four times a week in sum-er. Do not think because it is sweet that it is in good condition and need not be delivered. During transportation the canse

error of the second because of the sweet of some second the second because of the sec

ARRANGEMENTS FOR COOLING.

ARRANGEMENTS FOR COOLING. Make a small water-tight box of two-inch material and of sufficient size to hold all the cream Chine so sary in handling the cream. This box should have a tight-fitting cover, and be divided into sections by means of rods which will prevail single cans from upsetting when left alone in the tank. The best place for this tank is bed svided into sections by means of row upsetting prevent single can function the section of the section tank. The best place for this tank is between the well place and the stock watering tank, and if and the stock watering tank, and if the stock watering tank. The section of the stock watering the two or small house shall be water pumped for the stock will for all the warm water out first watering tank, and if the stock will for all the warm water out first and the stock water in the tank water pumped for the stock will for all the warm water out first and the section which will for all the warm water out first and the section water in the tank should be of sufficient way be freely estimated to holding the section of the table of sufficient the table in water pumped for the water in the tank should be of sufficient to the table built inside the watering tank of an ordinary empty kerosene barrend be set and outlet between the second and thit hoops from the top. Make set and outlet between the second and this hoops from the top. Make set and outlet between the second and this hoops from the top. Make set and outlet between the second and this hoops from the top. Make set and outlet between the second and this hoops from the top. Make set and outlet between the second and this hoops from the top. Make set and second hoops for the water pine is set and outlet. Should be the set and and the second hoops for the top end and second hoops for the top end the second and second head to the second and this house the second and the second and the second hoops for the top end and second hoops for the top end the second and the second and the second hoops for the top end the second hoops for the to March 16, 1911.

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P. E. I. Dairymen Meet

Dairying in Prince Edward Island Dairying in Prince Edward Island has made some advances during the past year. The milk supplied to cheese factories and creameries show. ed a net increase of 2,545,923 pounds. The value of the cheese cutput in 1910 decreased \$4,139,39 but the output of the creameries increased to \$25,047 are decreased \$43,139,29 bit the output of the creameries increased by \$25,947,34. The value of the total diry output of the Island was \$51,40,100 such was the report given by Join Such was the report given by Join Such was the report given by Join Such was hand Dairymen's Association at their annual meeting held in Fohrusy. The Is-land, being isolated from the main hand werk in Fohrusy. The Is-not very well establish monthacturing industries. The Island monthacturing industries. The Island monthacturing industries, The Island population, therefore must d-vote the Island, small proper development along the lines of intensive agriculture, the Island, annal as it is should sustain a population of 400,000. the creameries increased by \$25,947.34

Strong ground was taken by Mr. Anderson on the subject of taxing improvements. He characterized it as "punishing a man for daring to put meney improvements." Dairy Dairy Inspector Morrow reported that there as the station in operation last year. Many improvements have been Strong ground was taken by Mr.

skim milk station in operation last year. Many improvements have been made in the factories and in the way in which the milk was kept on the farms. The Island cheers all for prices which compared favorably with urices realized in the best dairy dis-tricts in Canada but there is still much room for improvement in the unlity.

Mr. Harvey Mitchell, of the Dairy Mr. Harrey Mitchell, of the Dairy Division Ottaga. spoke on the subject of onv toating An instance was cited of an Leland farmer who had increas-e-! the varge output of his six cover in three teams from 147 lbs. of butter to 323 k, through keeping records. Another received \$15 more per ccw in the same time.

Another received #16 more per ccw in the same time. Resolutions were passed commend-ing the provincial Government for ing the provincial Government for their action in granting scholarships for factors attending short courses at the Nova Scotia Agricultural Cci-lege and a scholarships in con-nection with the Prince of Wales Col-lege to with the Prince of Wales Col-lege to eith the fund suti-ized to assist an equal number of young man to take the full course at the N.S.A.C.

FOR SALE

Cheese factory, good buildings and quipment, good dwelling above curing com. For further information address D. C. FLOTO. . 171 BALDWIN STREET TORONTO. ONT.

CALVES RAIBE THEM WITHOUT MILK Steele. Briggs Seed Co., Ltd., Toronto. Ont

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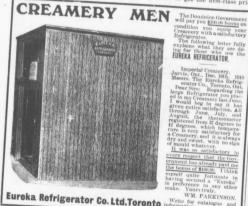
MAN WITH SOME EXPERIENCE WANTED for Creamery for coming season Stonehouse, Port Perry, Ont.

FOR SALE—Two Steel Cheese Presses good as new, one Beach Curd Mill, two Vats in fair condition, at a bargain for quick sale. L. A. Southworth, Omemee, Ont.

WANTED - Cheese and butter maker to take charge of factory. Single man preferred. Apply, stating experience and salary expect-ed to Wm. Ferguson, Eversley, Ont.

ed to Wm. Ferguson, Eversley, Ont. GOOD SMART MAN-Married or single, who understando parting De Lavai Beparator. Prefer operating De Lavai Separator. Prefer operating de la second references. Apply to Flavelle-Sliverwood, Limited, London, Ont.

FOR SALE-Four Chesse Vats, 4 Sinks, 3 Gang Presses, 4 Agitators, Card Mill, 1 engine (8 h.p.1, 1 bolts, Chessen, 1 f. 1 Reid Separator and Temmering Pan, Whey Can, etc. Factory closed, James Elliott, Tillsonburg, Ont.



WM. PARKINSON. Eureka Refrigerator Co. Ltd. Toronto Information.



FOR S FOR SAL section, \$2,000 bu balance Apply I

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March 16, 1011.

Cheese Department The series of the series

Dairymen and Reciprocity

FARM AND DAIRY

to that same market we would have to that same market we would have received at least 20 cents a ext. more for the milk we produced. With the American market wholly free to our cheese we would have done still better. Even in the face of the duty of six cents a pound on cheese, two of cur factories were able to ship some of their product to the United States and to obtain better prices for it than could have been obtained by shipping to the English market, where there is no duty. With the American mar-ket open and our cheese increased in

ing factories paid by test in 1910: In-nerkip, Soho, Brownsville, Culloden, Dereham and West Oxford, Thames-ford, Cassel, German Union, Spring Creek, West Zorra.

Creek, West Zorra. The Strathallan, Vandecarf, and East and West Oxford will be added to the list of the Oxford county cheeses factories naving by the test in 1911. The following is a complete list of the factories in Western Ontaric that western Ontaric that is 1000. Decoher and

Dairymen and Reciprocity At the close of a short course for farmers, held at Picton, Onta, last week, Mr. John Hystis, with the American market, where there agriculturist, gave an addominent which he dwelt on the Lenomelite of prein-work with the dwelt on the Lenomelite of prein-troit vo the dairy farmers in Prince Gaward Co. "At Blockmelid cheese factory." said he, "we handled about of million dollars would be added factory." said he, "we handled about of million sectors." **Many Patrons Fined** The dairy instructors in Eastern American market had been open to



The Cheese and Butter Exhibit Held in Connection with the W.O.D.A. Convention at Stratford

An educational feature of much value in connection with the Western Ontario Dairymen's Consension is the schihlt of dairy produce held each year at the time of the convention. An attractive prize list escred to bring out exhibits from all the leading butter and cheese makers. The exhibits this year were of an extraordinary high quality. The entire exhibit was purchased by J. A. Raddick, Bairy and Cold Storage Commissioner to be shown at leading fairs in Great Britain.

\$1.12 for October, \$1.22 for November, and \$1.40 for December. If we could have shipped the cream from our milk

FOR SALE AND WANT COLUMN

FOR SALE-Cheese factory in good dairy section, western Ontario, ninety tons. \$2,000 buys this if sold at once. \$500 cash, halance in three equal yearly payments. Apply Knott & Sangster, London.

was purchased by 4. A fiddles, pairy and could storage commissioner to be smo-us we would have realized 20 cents a les of milk for adulteration of which evt. more. That would have meant an addition to the income of our own ated. Twenty-five of these cases were factory of \$12,000. Only about one-twelfth of the cheese made in Prince evenues for the wood prince of the second the presenters field. Multiply 12 by 12 and you have the amount of gain that would have cases to curt. With only seven es-of the factories in the county-self. (ception the patrons and addition of the seven have county-self.) (ception the patrons and addition the and the combined output cases to curt. With only seven es-d the and the combined output. In the seven cases the theory of the factor of county well and the theory found and addition of the factories in the county-self. patrons were found guilty when tried by the magistrates. Fines were im-

by the magistrates. Fines were im-posed in every case. The total fines amounted to \$2,850. Of this sum, half went to the fac-tories and half to the Dairymen's As-sociation. The salaries and expenses of the two prosecutors cost the Dairy-men's Association \$1,102.76. The Association received \$299.18 more in the salaries and services and the services of the servi fines than it paid out in expenses.

Factories that Pay by Test



Ontario.

You can't afford to use a common separator that loses cream which a Tubular would save. Cream is money to you. It is cheaper to throw away a commo-machine, if you have one and put a Tubular in its place than it is to keep on losing cream.

place than it is to keep on losing cream. Tubulars are what others lose because Tubulars are later than and different from all others. Tubulars are stater than and different from all others. Tubulars are stater than and different from all others. The lambda states are an even than the state of the state states and the state of the state the state and the state of the state of the state are land and out. If you don't know him, ask us his state state of the state are leaded and out. If you don't know him, ask us his state of the state are leaded and out. If you don't know him, ask us his state of the state

THE SHARPLES SEPARATOR CO., Toronto, Ontario, Winnipeg, Manitoba



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DAIRYMEN.

ATTENTION!

BEFORE BUYING DAIRY SUPPLIES

DAIRY MACHINERY

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LAND FOR THE SETTLER Large areas of rich agricultural lands, convenient to railways, are now available for settlement in Northern

Ontario. The soil is rich and productive and covered with valuable timber. For full information regarding homestead regulations, and special colonization rates to settlers, write

The Director of Colonization Department of Agriculture,

TORONTO



Impatience is the worst foe of improvement

The Road to Providence (Copyrighted) MARIA THOMPSON DAVIESS (Continued from last week.) SYNOPSIS OF "THE ROAD TO PROVIDENCE."

...

SYNOPSIS OF "THE ROAD TO PROVIDENCE." Mrs. Rayberr, a constraint subject to the provide the subject of the sub

ND pretty Bettie fairly radiated they all laughed, even the misan-A lovingness from her big, moth-erly heart.

erly heart. "Bettie Pratt, you are a regular Proverbs, last chapter and tenth to thirtieth verse woman, and your hus-band's heart is a going to 'safely re-joice' in you," said Mother Mayberry as she beamed across the little sleeve the was hasting in an apron, "And as sne beamed across the little sleeve she was basting in an apron. "And this brings me to the mention of an-other little Bible character we have a-running about amongst us. It's 'Litas Pike as should be called one of God's, own little ravens, and you all know why." why

"Yes, we do, Sister Mayberry," spoke up Mrs. Mosbey quickly. "And I've just caught on to her doings, and thankful I am to her for letting in the light to us before it were too late may-be".

"Why, what have my child been a-"Why, what have my child been a-doing to be spoke of this way?" asked her mother with both pride and up easiness in her tone, for Eliza, as is the way of all geniuses, especially those of a nhilanthropic turn of mind, was ant often to confront those re-sponsible for her with the unexpected. "Just seeing what we was failing to notice, that Mis' Bostick and the Dea-ron was in need of being tooken care

notice, that MIS Bostick and the Dea-con was in need of being tooken care of and, without a word to anybody starting out with a covered dish and a And in the right spirit, too, walking into each kitchen and taking the best offen the stove-no left-over scraps in her offerings to the Lord, and she way all gave a lesson to grown-ups. We all love the old folks and was ready to do but 'Liza have proved' that love must be mixed with a little gumption to make wheels go round. And ain't

thrope, who was much pleased over this public acknowledgment of the su-



FARM AND DAIRY

looking at her.

nvited me.

Home, Yes, Real Home, on a Farm in Prince Edward Co., Ont.

Who would not that "Home" always meant such pleasing and natural surround, ings as are here shown? Wouldn't it be worth while, now before the buys season of planting again is here to plants of the start of the sta

periority of her handiwork

periority of her handiwork. "Now, Judy, honey, don't you say one word to 'Liza about that' She have got the whole thing fixed up for us now, and it word to to get her the old folks. The thing for us to do is to make our engagements for truck with her regular and take her dicta-tion always about what is sent. Keen if in her mind how complimented we are to be let give to the Deacon and shell manage him, pride and all. in a sorter game. "We'll make it a race with her, which pleases him most. but 'Liza have proved that love must be mixed with a little zumption to make wheels go round. And an't she cute about it? She told the Dea. con that she had to bring something from everybody's kitchen or hurt all our feelings. They is a way of put-ting what-toughter's into words that makes it a truth, and she did it that ting what-toughter's into words that makes it a truth, and she did it that time. 'As she delivered her little hom.' Sister Pike, Mett of the absent small Sister Pike, Mett of the absent small site in her switch pleases him most. And now, 'Mother paused and looked from the face of one hearty country wman to another with a wealth of us softer to take the widow softy. ''Told me vesterday i didn't brown my hoe-cake enough on both sides for the Deacough system that Mis' Peavey's was better.'' "'Why Mis' Praty.'Liza oughth't bo speak that way to you; it ain't man ners,'' her mother hastened to say, as

the "If the stranger's growing appetite. "If you folks don't stop spoiling Tom Mayberry I won't never be able to get him a wife. I'll have to take little Bettie to raise and teach her how to bit and bridle him." laughed Moth "Mayberry as they all covered

to bit and bridle him." laughed Moth-er Mayberry, as they all rose and florked to the front porch. In the Road in front of the hause had congregated the entire school of small-fry, drawn by the mother lode, but too well trained to think of mak-ne any kind of interruption to the small-try, drawn by the mother lode, but too well trained to think of mak-ing any kind of interruption to the gathering. They were busily engaged in a tag and tally riot which was led on one side by Eliza and the other by Henny Turner, whose generalship could hardly be said to equal that of his syounger and ferminine opponent. Fiker and little Hower sat in the Fiker and little Bettie. They champed the Fike gate, and attached thereto her Fike gate, and attached thereto here and little Bettie. They champed their mucham bits drawn through their mucham bits drawn through their source and the san bean and Eliza found time feet in the dust, as Eliza found time feet of the to two to call our "whon" sour at them. They were distinctly of the game and

were blissfully unconscious of the fa where bissibility unconscious of the fact-that they were not in. This arrange-ment for keeping them happy, though out of the way, had been of Eliz 's contriving and did credit to her wit in many senses of the word.

many senses of the word. We will a At the appearance of their be-hatt-of parents on Mother Mayberry's from a sense of the sense of the sense in a circle around the gate. A moti-complicated to tak here to ut of reach of the children is different from a mother who is alway different from a mother who is alway different from a mother who is alway there hous titchen, garden or at a convenient neighbot's, and this weekly three-hou teguits.

"Have anything happened, 'Liza?" "Have anything happened, Little asked her mother, as she ran a prac-tised eye over the group and detected not a loose end. Eliza and Bud had rolled over the wheelbarrow, led by the prancing team.

when the meeting was over," said Mother Mayberry as she tendered the crisp reward of merit to Bud Pike, who stood nearest her. "Thank you, ma'am," answered Bud, mindful of his manners. "Sav, "Liza, let's all go down and set on the pump and eat 'em, and we eat on drink water, too, so they will last longer." "All right," answered Bionger." "all right," answered Bionger." set about unharnessing the youn team, who immediately and bitle Hoover to Mrs. Pratt and was preparing to wet off with Teether in the wake of the cake bucket, when the widow called to her.

"'Liza, honey," she said, "here's some peppermints for you. They was not enough to give some to all the children, but I want you to get a bite.

at enough to give some to all the children, but I want you to get a bite anyway." "Thanky, ma'am, but I don't like the source of the source

gin till I get there. It wouldn't be fair." And she hurried down the Road

fair." And she hurried in wouldn't be for where the group whited impatient by but loyally around town the Road ing's?" asked Mother Maybery, as she looked down the Road at the little swarm with tender pride in der eyes. "That they are," answer in der eyes. "That they are," answer own rich voice, "and to think that pretty soon seventeen of them will be mine !"

And it was an hour or two later that the old red sun had reluctantly de-parted across the west meadows, just as a soft lady moon rose languidly over Providence Nob. Providence sup-pers had all been served, the day's news discussed with the men folk, jocularly eagret to get the drippings of excitement from the afternoon infigs of excitement from the afternoon bell dron-the soft-toned Meeting-house bell dron-the soft-toned Meeting-house bell dron-et out its call for the weekly prayer meeting.



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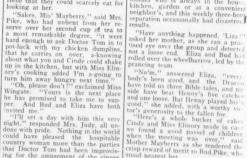
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"every. Deacon s, and my e catches ayed his'm orthy vic-foe. of cakes le in case children r," said dered the Pike, who

answered s. "Sav et on the an drink nger." , and she young pered af-e Hoover aring to ke of the

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folk. infair. ,when dronorayer March 16, 1911.



************* John Henry's Talk to Himself

John Henry's Talk to Himself Any boy can become a good and freat man if he has it in him. Any because the second second second second best bodsy if he has a min to . And beighest calling one can appire to . No other life is so free, so filled with op-jortunities for self-culture and en-types and the right lime. The farm of the second second second second second to be the second second second second to be a second second second second to be a second second second second second second second second second to be a second s

Now Jchn-Henry will have a talk with himself and it will be something

like this: John: What are you going to be Henry, when you grow up? Henry: Aw, I dunno. That's a long way off and I'm not thinkin' about

that

way on and 1m not thinkin about that. John: But you ought to think about it. You won's amount to much un-terned to the second second second to the second second second second behavior to the second second second working with econom and I guess ho was a little hurried too, so he just made a botte of it and that founda-tion is all going to pieces and rats get through it. Henry: Well, I don't care. I don't think I get a square deal 'round here anyway. Every time I try something the second try in to amount to any-thing?

the use of tryin' to amount to any-thing? John: But, honestly, Henry, it's your own fault. You never complete anything you begin. You just whale into a new-fangled idea for a little while and then your ambition fizzles out. You don't stick, Henry; you know you don't. Henry: Yes, that's so, toc. Maybe father hasn't any confidence in me any more.

father hasn't any confidence in me any more. John Then you better turn over a new leaf and work so that everybody has confidence in you. Let them knew that when you tackle a thing yeu are going to see it through. That's what makes a man out of anybody. Henry: Do you think I can stick to anything? I haven't any confidence in myself. The first one to criticias me throws me cfl the track. I get mad, and sulk, and quit the whole thing. I'd run away from home if I knew where to go. where to go. John: Oh, Losh! you fool, can't you see that such talk as that is folly.

CAPABLE **OLD COUNTRY** DOMESTICS carefully selected. Parties arriv-ing March 13th, 20th and April 2nd, Apply now. The Guild, 71 Drum-mond St., Montreal, or 14 Gren-ville St., Toronto.

FARM AND DAIRY

Now there's that short course in town soon. You can learn something about farming if you buckle down. But it means work and study. You know father doesn't believe much in new fangled notions about farming as taught by the col-lege professors. but I kinder believe he's not up-to-date as he might be and I want to be a good farmer-the best there is. Den't you, Henry? Hon-estly now, don't you want to be a crackin' good farmer? Course you do-and you can if you will. Henry: I believe I will-yes, I will? But I want you to help me keep cheer.

Henry: I teneve I will-yes, I vent But I want you to help me keep cheer-ful. I will need encouragement from you when the folks get to makin' fun of my "book farmin".

of my "book farmin". John: I'll help you all right. Now let's shake on that. You and I togeth-er can win. Here's for everything that will make for manhood and suc-

cess. After John Henry (which means you) has settled the matter with him-self then he's in condition to go ahead and from that time forward lay out to be one of the best of farmers and ever strive to be at the head cf his prefersion. profession.

*********************** The Upward Look **Our Latent Possibilities**

At that day ye shall knew that 1 am in my Father, and ye in me and 1 in you.—St. John 14, 20. 1 ean do all things through Christ which strengthened me.—Philippians

Tean do all things through Christ why strengthened me.—Philippians 4. Mone of us can ever tuly under-stand, while we are in this world, what these two great passages of Scripture mean. Our minds are to small, their capacity too limited to ar-able us to great purce than a small fraction of the great truths they would unfold to us. Only a small portion of our lives is lived in this world. Life sternal is to follow. Much, therefore, that is hidden from us here will be made clear to us hereafter when we have entered into the life Leyend. Not until then will we be able to realize how fundamental and far reaching are the lessons contained for us in these two assurances, one given by Christ and the other by St. Paul. It is our duty, however, to study them and to absorb all the truth and inspiration we can therefrom. Much of our unhapprices in this world is caused by the fact that we allow ourselves to be heat by circum-stances instead of bending circum-stances that we should be overcome by our difficulties but that we should over create them. Most of us have within us, whether

Most of us have within us, whether we realize it or not, a tendency to become "leaners." We are inclined to lean on others whom we think are to lean on others whom we think are sirronger or more able than ourselves. Whenever we lean we deteriorate, and as long as we continue to do as o, beth mentally and apiritually. Whenever we think and act for ourselves, we grow in strength and in power. Most of our troubles are due to the fact that we are weakly writing up do

Most of our troubles are due to the fact that we are weakly giving up to circumstances that it is intended that we should master. If there are con-ditions in our lives that are hard and galling we may depend upon it. As long as we lay the responsibility for these conditions upon others instead of setting to work to overcome them ourselves. improvement will be slow.

ourselves, improvement will be slow. To bring about an improvement, we must in the first place, realize that Christ dwells within us. This know-

ledge, if we will but use it aright, will give us the power that St. Paul spoke of, the power to overcome all things for with Christ all things are possible. Instead, therefore, of constantly de-constantly atrive to develop the great constantly atrive to develop the great powers that are within us. If we are ing, these are the weave and believe them. them

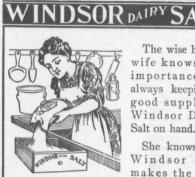
them. In his little book, "Mastery of Self," Christian D. Farson, anys: "Man its "made for attainment and achieve-"ment; to ever become greater and "greater than he is now,--that is the "purpose of His life; and to promote "that purpose he must ever advance "in the mastery of self. Before man "can gain the power to master forces "and things, he must gain the power "to master himself. When a man has "gained the power to control himself" "he can centrol everything in his world without trying to control anything.

"thing." That is the starting point for each of us. We must first learn to control ourselves. As we gain power to con-trel ourselves we find new powers springing up within us, powers that we never dreamed that we possessed and which make it possible for us to go on from victory. This subject is one to which most of us have given too little attention. During the next few weeks we hope to be permit-ted to follow it up more fully.--ILN. Pointers for Housewives

Pointers for Housewives

Medicine should never be left in sight of the invalid in the sick room. To make sure that bread will rise To make sure that bread will rise in cold weather, warm the flour be-fore mixing. Shoes will last much longer if oc-casionally rubbed with vaseline when

they are new. A little alcohol rubbed on quickly



The wise housewife knows the importance of always keeping a good supply of Windsor Dairy Salt on hand.

She knows that Windsor Salt makes the best

butter-and she is not satisfied to make any other.

Windsor Dairy Salt is both a moneymaker and a money-saver.

It makes money for farmers and dairymen because it makes butter that brings the best prices.

It saves money for them because, being absolutely pure, it requires less to properly salt the butter.

19

will clean a dirty window better than equally good.

Household Faults

When speaking of a person's faults, Pray, don't forget your own: Remember those with homes of glass

Should seldom throw a stone; If we have nothing else to do But talk of those that sin, 'Tis better to commence at home,

And from that point begin.

We have no right to judge a man Until ho's fairly tried, Should we not like his company, We know the world is wide; Some may have faults—and who has not

The old as well as young?— Perhaps we may, for aught we know, Have fifty to their cne.

I'll tell you of a better plan, And find it works full well, To try my own defects to cure And not of others tell; And althcugh I sometimes hope to be No more than some I know, My own shortcomings bid me let

The faults of others go.

Then let us all, when we commence To alander friend or foe, Think of the harm one word can do To those we little know: Remember curses sometimes, like Our chickens, "roost at heme"; Don't apeak of others' faults until You have none of your own.

Where the family is small and the housewife does all her own work, it is neither mecessary mor desirable to wash dishes three times ovary day, even in the interest of nextness. The older generation of housewives did it, of course. They gloried in "keeping busy."

is arrange of Eliz 's

r be-hatted rry's front and stood

The Food Value of Cheese

A comparison of the food value of cheese with that of other highly nitro-genous food materials, shows that no kind of meat excepting dried beef kind of meat excepting under pro-carries such a large percentage of pro-tein as cheeses, and as dried beef con-tains a much greater percentage of water, the other fcod constituents water, the other food constituents aside from the protein are much less than is found in cheese. Fresh beet as purchased has, weight for weight, little more than half the food value of cheeses in either protein or fat, and the same is true of practically all other freah meats, which have in many cases such a large percentage of re-fine and in all cases such a large per-centage of water that they are portioned. cases such a large percentage of the fuse and in all cases such a large percentage of such as a such a large such a large of the such as the such as a such as a such as a large of the such as a such as a such as a the such as a such as a such as a such as a percentage of the such as a such as a

centage of sater To sum the matter up we may state that a pound of cheese has nearly the same food value as two pounds of fresh beef or any other fresh pounds of fresh beef or any other fresh were as food it is worth as much as it more digast-ible, and it is equal to two re digast-les, and it is equal to two re digast ogs or three pounds of fish. In Jude of eggs or three pounds of fish were than milk costs about a third more than

Just Try It Once

That's all we ask you to do with Tile-Like. You have some eld chair that looks too shabby to use. Tile-Like will make it good as new.

Perhaps your floor is scratched and the finish is wearing off. Tile-Like will give you a new floor, with a finish hard enough to stand any use.



FARM AND DAIRY

HOW IT IS DONE

Keep stirring the goods. Us mooth round stick, such as a br

Yellow a darker yellow, olive reen, orange, red or black. Green a darker green, olive, brown

Blue a darker blue, navy, plum, dark brown, dark green or black. Violet a darker violet, plum, olive green or black.

Brown a darker brown, wine color

Good judgment should be used in

black.

round steak and twice as much as the cheaper boiling beef, while it costs practically the same per pound as smoked ham and bacon. It costs usu-ally a third more than fresh fish.

Earning Labor

Earning Labor K. C. Davies, Leeds Co., Ont. I have used a steam cooker, and from my own practical experience. I would be without it, for twice the cost of it, where one can cook with gas, they om easily save the cost of a cooker means about time, by econo-mising the use short time, by econo-mising the use short time, by econo-mising the use short stand over I have done time one burner, which I have done time on the dinner is cooking, which, in warm weather is a matter to be greatly considered. cooking, which, in warm weather is a matter to be greatly considered. It has always ben a mystery to me, why men, as a rule, of course there are exceptions, but mighty few, think so little of ever buying anything to help lessen the kitchen work. If there any new machine, in expense. There are a few precautions, how-we will be a set of the set of the set of the set of the durit the dycing process, but if the directions that are given with the directions that are given with the dress are closely followed, no one need have on the thin the best results. The first garments or wearing an-parel free from grease. Grease spots can be taken out with bensine and afterwards washed with warm soap-suds.

lessen the kitchen work. If there are any new machines in-wented to lessen farm labour, how quick they are to purchase them: but they never think a woman meeds any assistance, in regard to her hum-drum, every-day kitchen work, which, in many instead, so the so made comparatively easy, with very little expense, considering all the labour-aswing devices that are on the market to-day. I would never advo-Now, remember that will dyeing should be done at a gentle boil, and use a vessel large enough for the pro-per maniputation of the goods. Be sure, though, that the dye is com-pletely dissolved before putting it into the dye vessel. labour-saving devices that are on the market today. I would never advo-cate running in debt for such things, but get them little by little, as one feels they can afford them, and the amount of strength and energy seved in doing the same work, with these inventions, would simply be marvel-lous. One hould be for a few exp-periments with a few of them to find that out. smooth round stick, such as a broom handle. Do not use anything sharp or pointed as it might tear the material. Turn the goods genity, completely and with absolute regu-larity. Many of the uneven results obtained occur through porr mani-I, myself, am very fond of house

I, mysell, am very fond of nouse-work, but at the same time, I think that the women should be entitled to as many labour-serving devices as the

... Dressing Well and Economically

on-ainer occur anonge per man-inlation. Under no circumstances rush the tweing because the shade looks beau-tiful or deep enough, for all colors appear much darker when wet. Full thades usually require about an hour's boiling. Remember, alsc, that all articles must be well washed in many chances of water after the dye, or until free from color. Otherwise the color in reasel which has had a dark color in it without first cleaning the vessel thoroughly. ABOUT COLORS

Dressing Well and Economically Now is the time that the elever-mother, is made apparent by the mother, is made apparent by the gathering of articles of dress or wear-ing appunded and saving them from the house-cleaning time one will so through noise-cleaning time one will arding gather truths and boxes, dis-carding gather truths and boxes, dis-carding gather truths and boxes, dis-dred the second second second second with a last sigh fright and left, and with a last sigh from the away with the other things that have ac-cumulated during the year. The wise woman will not do this.

cumulated during the year. The wise woman will not do this. She will look these clothes over care-fully and if the material seems good, she'll lay them aside for future use. Just because the dress here the second and it lay them aside for future use. Just because the dress has become faded, or lost its freshness, or the shade is out of fashicn, is no sign that it has outlived its usefulness.

it has outlived its usefulness. Many a woman can casily dress in the new shades and styles, without may be changes in styles since the old dress was worn, but these changes in style have no terrors for birthits woman who knows the possibilities of dres. If the materials in last year's clothes are seemingly good, but a little dyes. If the materials in last year's clothes are seemingly good, but a little faded or solid-field convert the color into one of she new, fashionable shades. And withe few up-to-date patterns shell have new few up-to-date rect in style and color. The seeses, cor-rection style and color. The shell of the Remnants, that are real bargains, are on sale quite often in the different stores, the only reason for the being that the shade is out of pashion. Onlice a saving in a new spit or bines. Grays can be dyed a darker shade, wine, maroon, navy blue, dark blue, green, brown or black. Or if very light, lavender, pink, rose or baby

Good judgment should be used in combining shades, for you cannot dee a light shede over a darker ene wich-out first stripping. Nor a light shade as a dull one. The number of shade a dull one. The number less. Many textile mills produce their whole many textile mills produce their whole on nore colors is limit-less. Many textile mills produce their whole on the standard colors by mix-ing them in different proportions. price being that the shade is out of fashion. Quite a saving in a new suit can be made by buying up such pieces and dysing them to meet the drives fashion. If the material is wood of shades which may be produced by the structure of the structure of the structure of shades by using the structure of the structure is line., cotton or mixed goods, a drive the for cotton will give the set reaks. It is as easy as washing a handker by using dye suitable for the structure of the structure of the structure of the structure shades by using dye suitable for the

March 16, 1911.

material to be dyed, and any woman with a little time and care can thus offeet an immense saving in her dress of the transmission of transmission of the transmission of the transmission of the transmission of transmission of the transmission of t EDUCATION FOR THE GIRLS

The use of dyes for coloring trim-mings to harmonize with a dress or mings to harmonize with a dress or suit is endless. With a little per-severance, the careful dyes an ob-tain any color or shade to match or hosiory, veils and feathers can be made to give longer service by using dye to brighten or change the color. Fortieres, couch covers, table covers and shadow curtains can also be Given new life and added beauty any will fill the housewife's heart with your the carried out in her home with little expense. Aunt Faithie has some pretty sound and mothers were not quite so in-dulgent to some of the children they and mothers were not quite so in-dulgent to some of the children they would appreciate the higher dutation more fully. I would say by all matching give them a High School education, give they are to that High school they are to the thigh of the boror they start to that High of more they start to that High of more they start to that High of more they start and also the value of more y and that honest work and wages and that honest work and work of the start of the start of more they start and so the start was and they have become spoled if they and they have become time is past and they have become that they are denied by working for that what har-dened by working for that what har-dened by working the they work work best characters that this world working the start work work the they are best characters that this world working boy, and do not forget that the very best characters that this world ever had were formed while performing some kind of honest work. We ap-preciate our children (sometimes too much) so let us remember that they are really not any bettor than their fathers and methers, and sufficient employment is sometime the very best stuff to build a noble manhood and womanhood out of. Let our daughters prepare the table

Let our daughters prepare the table Let our daugnters prepare the tathe for supper as often as possible and teach how to cook good food properly also that honest work is always a good and honorable thing to do, and someand nonorable thing to do, and some-thing that any person should not be ashamed of. Teach them as "Sister" says, to be heme makers instead of house keepers, for there is such a diff-erence between the two words.—"The Doctor's Wife."

BENEFITS FROM CLUBS AND GRANGES Not the least of the benefits that come from Granges and farmers' clubs are the powers of mind, of speech, of influence, that come through being at influence, that come through being at case before others, which are develop-ed by these organizations in the farm boy and girl, the farm man and woman. It is a great event in the life of many young men when they are placed on a program after a gir-en the opportunity of "coming cut" before their follows. When a young man of the farm dis-

ABOTE COLORS Now a word about the colors. If the original color is white, any color san be dyed on it. If it is cream, it can be dyed any darker shade of similar character. Red casf be dyed a darker red, crim-son, wine, navy blue, brown or black. Orange a darker orange, clive, red, yellow a darker yellow, clive, When a young man of the farm dis when a young man of the failed dis-covers himself a new world opens up to him. He may come forth as a better farmer, and we need better better farmer, and we need better farmers, or he may go into the com-plicated life of the city, hus therever he goes and whatever his life work, the man who discovers himself at the "coming out" day in his Gfrange ci Country Club will amount to some-thing worth while. thing worth while.

thing worth while. It is important that the boys and girls be put on the program of the Grange and Club for this very reason. Grange and Club for this very reason. They may not tell the old farmers any-thing new, they may build a long in an embarrased way, builder ye got to have their coming out as never keep a boy down because here a cowed act the part of a brilliant for doesn't first time he appears before a crowd of home folks.

The ability to talk freely and with ease in a crowd or before an audience is a rare achievement and worthy of is a rare achievement and worthy or cultivation. Some folks know a lot but can't tell it. Some folks jibler a lot and den't say anything. We ought to learn to think while on our feet. We ought to learn to think while on our feet. We ought to learn to express our ideas in speech or in writing. Whose fault is it if we don't?--"The Son."

...

Never clean windows when the sun shines on the glass, as the sun dries moisture neural before it is taken up by the cloth. If the dry process is used it is difficult to polish the profession surface evenly.

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March 16, 1911.

Embroidery Designs The second second

Design for Embroidering or Bead-ing a Blouse or Gown

Collars Cults

aundry Calores

andkerchiefs Cravals

Salary lon Brus

Design for Embroidering Words, Adapted to Different Purposes.

Caras Shoes

Buttons

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ap 564 Design for Bow Knots in various sizes To be embroidered solidly or outlined, or outlined with fancy stitches between. -Ener Design of Chrysanthemums for Embroidering or Beading a Blouse Front, Collar and Cuffs. 562 ...

Here is a suggestion for easily iron-ing a bonnet with a drawstring in it. Clip the string or tape at one side and fasten a small safety-pin in it. Smooth out the fulnes, letting the pin and string slip back in the casing. When ironed take hold of the pin and ran it out.

FARM AND DAIRY

Sanitation in the Farm Home

"Living in the ceuntry" should, of right, be the panacea against all dis-eases arising from inpure air, im-pure water and adulterated or unfit food. But, population considered, there would appear to be little differ-ence in the extent to which such dis-

there would appear to be little differ-ence in the extent to which suck dis-eases prevail in country or city. As says a contemporary: "Every case of tuberculosis, city or country, proves that with pure air 40 miles deep over our heads we have chosen to breathe impure air. Every case of typhoid fever—and we cannot deny that the farm home has them— proves that the drainage from stables or outbuildings has semehow cotten proves that the drainage from stables or outbuildings has scmehow gotten into the well, or that our worst enemy, the common housefly, has washed his dirty feet in our food. Every case of diptherin proves that filth is not far off." CAUSE OF TUBERCULOSIS Lack of ventilation in sleeping and

CAUBS OF TUBECULOSIS Lack of ventilation in alseping and living rooms—a superstitious dread of cold air—is probably responsible for a large majority of the cases of tuberculosis cocurring on the farms. People who sleep practically out of doors—that is, with windows wide open—seldom contract tuberculosis. So long as the bed is warm, it mat-ters little hew cold the room is. The Arctic traveller, ensconced in a fur sleeping-bag, and with no canopy but the stars, takes his rest under almost ideal conditions. The Eskimos never have consumption until trought south and compelled to live in houses like curs. curs

Typhoid fever will never originate



on a farm if the water supply is kept pure. Such purity is assured by the "divison well," such deep enough to of surface drains the Aradi in ation of surface drains the Aradi in ation happens that such a well is cheaper than a dug well, the security of which nouses is always a matter of deubt unless tests have proven that the drift of contaminated under surface waters is away from and not toward the well. As for the house by screens ever doors and windows, and the quick removal to the fields of the manure heaps, on which it breeds, will add not only to the healthfulness but to the general confort of the herme.

comfort of the hcme.

********************* THE COOK'S CORNER Regime of publication are requested. The second seco

CHEESE SANDWICHES

OHERE BANDWICHES Take equal parts cottage cheese and ground walnuts, add salt, cayenne and a little colery mineed fine, and a *v*-uoh of paraley finely mineed. The i *Loston* with mayonnaise and a little cream and spread. For ancluer cheese sandwich mix together the yolk of eno hard-boiled egg, half-cupful grated cheese, salt, pepper and dry mustard to season and two large tab-lespoonfuls mayonnaise or cooked dressing. Rub the yolk of egg until smoth before adding seasoning. COPPE GIARLOTE RUSSE

COFFEE CHARLOTTE RUSSE

COTTER CHARLOTTE RUSSE Souk 1 level tablespoonful of cold water ting in 1 tablespoonful of cold water ful of strow with 1 of 2 tablespoon-ful of strow and 3 rounding table-spoonfuls of powdered sugar and 2½ tablespoonfuls of cold hack coffee. Beat until thick with an egg beater. Strain inte it the gelatine and stir well . Line a mold with thim sites of sponge acke, pour in the cream and set i nthe ice chest until firm. Use one part of dry coffee to two parts of water in making the coffee. COLMER FURE

COLLEGE FUDGE

Melt a quarter cupful butter. Mix Melt a quarter cupful butter. Mix together in a separate bowl one cup-ful each white and brown sugar, ',' cupful of molasses and ',' cupful of cream. Add to the melted butter, and bring to a boil. Cook 3 minutes, stirring quickly. Add two squares of chocolate grated; cook 3 minutes, stiring very rapidly at first, but de-creasing toward the end. Take from the fire, add a teaspoonful and a half of vanilla, then stir constantly until thickened. Pour in a buttered pan and set in a cool place.

Peterboro - Ont.



be made from any material that is thin enough to be tucked and it is attractive and quite simple. It and quite simple. It can be made with three-quarter sleeves or with long ones. For a woman med-ium size, the waist will require 2% yds. 35 or 27 or 1% yds. 35 or 44 in. wide, with 1 yd. 07 all-over lace all-over lace all-over lace all-over lace and the pattern is ent for a 34, 35, 38, 40 and 42 in. bnst.

...

STRAIGHT GATHERED SKIRT, 6927



The siralght gathered skirt is being much worn by small women. This model is adapted to both. It is perfectly straight expectably well, but its can be made from anything that is thin enough to be treat-ed in such way and finished at the lower while band. It is athine of a the suppo-edge and can be cut a little above the wata line, or to the natural line and "Prove with a bit, as preferred. "By yards of material if or a's inches with or it is an interval to be inches, or 5% yards of interval discussed of the support of the support of the support inches with to trim as illustrated. "Of 14, 16 and 19 years of age.



Bishop dresses, or those that are gather-ed at the neck edge, are exceedingly be-coming to tiny folk. This one can be gathered and stayed with a belt, as shown The 2 years elics requires 2% yards of material 27 inches wide. 3 yards 36 or 1% yards 44 inches wide. This patters is out in sizes for child. rem of 4 months, 1 2 and 4 years of age.



21



During 1910 we sold over 133,400 acres; during the past four years we have sold over 400,000.

HOLSTEIN-FRIESIAN NEWS Farm and Dairy is the official organ The Canadian Holstein. Friesian sociation, all of whose members readers of the paper. Members of Association are invited to send interest to Holstein breeders -publication in this column.

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March 16, 1911.

In milk she is still giving over 80 line and wild first to give a good account of the still giving over 80 line. She will make the built call of Performance and the start of the start

Inka syiva Beeta Fosch the built now at the head of the Lawnerse hard. We expect to put several fine young cows for a several several fine young cows for combine the lawner without any several of 15.4 Hes. Butter made without any several provide the several seve

March

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Toronto, Mo Toronto, Ma in country see from country ness dull in a greater ex Business men and sound b the coming s from country cows will be n tofore and th winter in sp.

in business ci to pass t The session rec it becoming I ed for April of the Canad an effort to hoist was def and the pros pass the Don iately pass |

One of the Bill is Sir Wil of the Canad Sir Wm. is pi portation syst portation syst is always th influ_nce, has nign water m in the next i for \$253. Th flooded with r all parts of C sections and i the agreemen Call money cent. cent.

During the ; toba hard wh suffered a de chicago mari-week, prices the defeat of Senate, but t The world's unusually lar depleted, whe tow.

The Grain G he Grain G hat wheat p oth the ide that wheat p with the jde crediting the support of the bout that on which the age the price of liam was 942 was worth o reasoning, fa their grain u is decided. Q ket are: No. No. 3. 91 nd No. neat is unc aling at 80c cation. On

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Trade in me ill. Oats a Oats and t's quotati three of the main bill in to d rices. Quot anada West ports; O putside; 1 oronto, 34%



IMPORTED

March 16, 1011.

winter in sp.endid condition. "" and the "encourted talk still holds first place in fusions drives. Athough the bill fail-ing taskness drives. Athough the bill fail-ing taskness drives and the second star if becoming law in the extra session, call-ed for April 4th, are bright. The temper-an efforts to give the Bill a six months holds was defeated by a decisive majority passe the Dominion flows stimes items in with passe the Dominion flows stimes items items."

pass the Dominion House annos: Immed-ials... Built as the Dominion House annos: Immed-ials... Built as for which and the Direct express a set of the Canadian Pacific Hailway. While Shi Win is predicting rule tor our trans-infulnee, has possible (L1R, stock up to high water marks and it is predicted that always the first co of predicted that always the Direct co the predicted that fooded with resolutions and peritons from all parts of Canada particularly the rural always the and the and the peritons from the agreement... Call money rules at five and a half per cent.

WHEAT

WHEAT During the past week, the price of Mani-toba hard wheat on the local market has suffored a decline of one cent. On the Alixago market in the early part of the Alixago market in the early part of the the defeat of the reciprocity bill in the Senate, but the rise was not permanent. The world's visible supply of wheat is unumually large and until these stocks are unumually large and until these stocks are uow.

911.

lbs. and of her-ce. She t Gerben ill make erd. ifer but ly bred, ork and Mallory, ampion. ace and to her tk leads to her lk leads others as care-e them. Other bady at winter in the 4

in the es now cial re-Record tested springs ol 2nd Hen-t how classed them g and , who ich is great tevens duced but. es o ll be

depicted, wheat quotations must remain "The off off order of other speaking for the other of the speaking for the other of the other off other whether off other of the other off the other of the other other off other other off other other whether off other OARE GRAINS COARSE GRAINS

COARSE MAAINS Trade in most lines of coarse grains is dull. Outs are down a little from last weeks quotations. Barley has dropped in the structure of the structure of the tothe monitories being filed up, at is par-able however, that the defend of the reci-procity bill in the United States Senate profees. Quotations are as follow: Oats, Canada Western No. 2, 36e; to S. 55e, at lake ports; Outario white No. 2, 315e to 32e outside: No. 3, 36e to Mc; on track, Voronto, 3/2; orors, American zew, 36c;

ABSORBINE

Will reduce inflamed, strained, wolfan Tendens, Ligamerts, tendens, Ligamerts, Splints, side Hore of Hore Spavin Splints, side Hore of Hore Spavin bolist, no shirgon, Hore as be bolist, no shirgon, Hore as be but a dealers of detvered. Mr. 8, Nuon, Alloridge, Ont. Mr. 9, Nuon, Alloridge, Ont. used ABBORDY with success on a curb.

10

W. F. YOUNG, P.D.F., 123 TEMPLE ST., SPRINGFIELD, MASS LYMANS Etd., Montreal Canadian Agents

AUCTION SALE OF FIFTEEN **IMPORTED GLYDESDALE FILLIES**

D. McEACHRAN

MARKET REVIEW AND FORECAST

Toronto, Monday, March 13-Heavy routs in country sections and small remittances from country merchants are keeping busi-ness duil in wholesale lines but not to a greater attent than in other years, and sound basic sum turns is on a safe and sound basic sum turns is on a safe and sound basic sum turns is on a safe and sound basic sum turns is one and the coming season are excellent. Reports from country sections indicate that more cover will be milled this season than here bottom and that stock came througn ...

press, 80c to Elic; rys, 66c; barley, 56c to 56c outside for all ling; 50c to 50c for points. On the farmers' market costs are used of the farmers' market costs are gauged at 46c; barley, 70c; ryc, 69c; and On the Morrieal market trade in corress grains is quiet. The English market at process locally. Quotations are as follows: Oats, Causade with Argentine costs, process locally. Quotations are as follows: Oats, Causade Western No. 2, 30/cc; No. 2, 36-16c; free harjing 48c to 50c; cern, Am. eriona 50c; to 56c. 55% to 56c. MILL FEEDS AND MEALS

MILL FEEDS AND MEALS On the Toronto marker prices for mill feeds remain firm at last weeks quota-tions. Janicoba bran 322, thorts, 832, meal is quoted at 822, and the form meal is quoted at 822, and the form and cat meet, 82 per 90 ib. sack. Mill feeds are very source on the Montreal woung to small suppless Maintoba bran is quoted at 821 to 833 and shorts, 831 to 50 532. Corn much is 953, shorts, 831 s.55 per 90 lb. sack.

SEEDS

SEEDS The following prices are being paid by seed merchanist to growers: makie, No. 2: per bashed, S7 to 373.0; makke, No. 2; bua, 85.0; to 36.00; red clover, No. 1, hes., state 53.7; red clover, No. 3, bua, 85.00; to 53.7; red clover, No. 3, bua, 85.00; to 53.7; red clover, No. 3, bua, 85.00; to 53.7; red rata, reclemand, st22.5; to 512.5; POTATOES AND BEANS Portations has been active this

POTATOES AND REAN Trade in polatoss has been active this p_t wees, out prices remain unchanged as \$50 to \$10 a bag out of stors and 80 potatoss are quoted 56 to \$160 a bag. On the Montreal market polatoss have suffer-quit, arge and of \$6, Imports have been value, arge and \$6, Imports have been value, arge and \$6, Imports have been value, arge and \$6, Imports have been value and \$6, Imports have been value and \$6, Imports have been value and \$1, Imports have been va

F.CULT AND VEGETARLES

F.CUIT AND VEGETABLES Prices for fruit and vegetables are un-hanged irom last week. On the tar-mers market appres are selling at \$2.6 to \$5 a bbi, according to quality. in vegtable, dry oniona bring 40c a banket; dozen, 40c to 750.

WOOL

Trade is normal and prices unchanged Cood washed wool is quoted here at 21 to 22c, and unwashed at 13c; 16c for re-jects.

HONEY

HONEY Wholesale prices for honey are as fol-lows: buckwneat, 6c to 7c a lb. in tins; and 6%c in bbls; strained clover honey, 10%c in 60 lb. tins and lie in 16 lb. tins; No. 1 comb honey is quoted at \$2.50 a dozen.

No. 1 comb honey is quoted at \$250° at dozen. Har AND STRAW Trade in hay and straw is brisk. Sup-plies have been good and the demands is quoted at \$12 supply. No. 1 timothy is quoted at \$12 supply. No. 1 timothy is quoted at \$12 supply. No. 1 timothy at the three is and at the supplication of the \$10 or track here. and straw at \$630 to \$10 strack here. Indicate at \$20 and mixed loose \$8 to \$8. On the Montreal market more freque. It Supplies are coming in are not anxions to buy. No. 1 hay, stills to \$21, No. 2 \$30 to \$18,50, and dover mixed \$6,50 to \$7. DAIRY PRODUCE Defines for butter remain unchanced

DAIRY PRODUCE Prices for butter remain unchanged. Supplies have been large but a aded demaad has kept the market firm. Quo tations are as follows: Oreamery prints, Zee to 29: solids 250 to 20: separator prints, 22e to 23: dairy prints, 18e to 20: and inferior grades, 16. On the farmers market choice dairy butter is quoted at 250 to 30:

(DESDALE FILLUES) AT ORNSRY ORNSR STOCK FARN, ORNS STOCK FARN

coming in irregularly. Quotations are as follow: Ohickens. Hot to Bo: fowl. 1b to Solo to Solo there we have been as a solution of the solution of the loc to Solo there we have been as a solution of the solution of the loc. In Montreal trade is dull and prices instants. We solve the solutions as 43-45, to 44.00 the solutions as 43-45, th

HORSE MARKET

HORSE MARKET Trade in horses continues to open out and more shipments are going forward from country points every day. The con-servative acitizade of horse owners is the overface or keeping the trade down to its owners to be seen the shift of the shift of the voltow. Good heavy draughters s55 to 855: medium weight, 890 to 820. and lair quality ones \$100 to 820. Express 1014 quality ones \$100 to 100. Storers, \$190 to \$500; and maddlers, \$200 to \$500.

LIVE STOCK

LIVE STOCK
The form improving, prices for each of the form improving, prices for each of the form improving of the part of the form of the part of the

diotektoon; 80'2 fob, and 8706 on the less. To weighting over 200 list, 500 sheep and lambs ar, slightly up on last sheep and 54 to 55.5 for lambs. On the Montreal market also cattle prices slive a sharty declar from last week 55.0 for 05 %; good at 55.7 fair 85 to 65.0 for 05 %; good at 55.7 fair 85 to 65.0 for 05 %. A feature of the trade to 1018 52.5 to 55.8 for 1018 st for cowe range from 53.25 to 55.50 and buils 52.5 to 58. The trade in sheep and anthe was good, sheep being quoted at 54 to 55.7 and lambs was good.



SUMNYSIDE HOLSTEINS-Young stock, YORKSHIRE AND TAMWORTH HOGS-all agam-J. M. Montle & Bon, Stanstead, Quebee, Stanstead, 200 Stanstead, Stanste

CLYDE HORSES, SHORTHORN CATTLE-Young stock for sale at all times.-S. F. Redmond, Peterboro, Ont.

CLYDESDALE HORSES. SHORTHORN CAT TLE-Large selection of best stock. Prices reasonable.-Smith & Richardson, breeders and importers. Columbus, Ont.

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

EVERGREEN FARM HOLSTEIN HERD



brenuzen raam HoLSTEIN HERD His as tis baoed Veistra Tri-umph (imp.) S7(1, whose dam gave in 1 day 10(5, ibs. mil.) His program and the strate stars to the program and the strate stars to wooderful prepotency. We anteed and starper you with what anteed and stars of the stars of the star anteed and stars of the stars of the star anteed and stars of the stars of the stars anteed and stars of the stars of the stars anteed and stars of the stars of the stars anteed and stars of the stars of the stars anteed and stars of the stars of the stars anteed and stars of the stars of the stars anteed and stars of the stars of the stars anteed and stars of the stars of the stars and the stars of the stars of the stars and the stars of the stars of the stars and the stars of the stars of the stars of the stars and the stars of the stars of the stars of the stars and the stars of the stars of the stars of the stars of the stars and the stars of the stars

MERTON LODGE STOCK FARM

MERTON LODGE STOCK FARM. Offers it wo pear oid huisines whose size are a son of isngervaid the kind wat for the kind with a limit, who has no daughters with a bit and 3 in. records, and a son of be Koi the ind, the founder of a son of the Koi the ind, the founder of the found interval cover and bulk with a bit of the founder of the find future Hoy the fad hubble found in vised. Station, telegraph during the find vised. Station, celegraph during the form vised. Station, celegraph during the form www.decords, CRAMPTON, ONT.

HOLSTEINS

Two bull calves, good butter strain, for ale at reasonable prices; also prize win-aing year-old buil ready for service. S. ARMSTRONG, JERMYN, ONT.

LAKEVIEW HOLSTEINS

Boll calves into the Web of Shirts of Boll calves since by Counts Hangewreid Fayne De Koi, who is brouker of an end Honon see greas cowe, tirces Fayne and Honon see Statistic and the Shirts of Shirts of Shirts of Shirts of Honon Shirts of Shirts of Shirts of Shirts days. These calves Shirts of Shirts of Shirts own with records of 20 honors, Shirts of Shirts T.F. Galler, Bronte, Ont.

FAIRVIEW FARMS HERD

FAIRVIEW FARMS HERD —HAS FOR SALE— Bons of Pontias Korndyks, site of the Kai ish georgi ow Pontias Citothide Ju the site of seven daughtery days. Its by the site of seven daughtery days. Its by reords average slil like scot, uncequalied preed, living or ded any other site of the breed, living or ded any other site of the breed, living or ded any other site of the breed, living or ded any other site of the breed, living or ded any other site of the breed, living or ded any other site of the the site of the site of the site of the other site of the site

We have insh average for hes two seed, ins. We have in service, and can offer you some of Sir Johanno Martina Giada. See some of the highest rolation of the second second second second second the source over 20 Hos each. This young sites it source of the second s

HOLSTEIN CATTLE THE MOST PROFITABLE DAIRY BREED Illustrated Descriptive Booklets Free HOLSTEIN-FRIESIAN ABS'N OF AMERICA A-LHOQUATON, SECY, BOX 146, BRATTLEBORO, VT 84-11

ELMDALE DAIRY HOLSTEINS LEMUALE DAINY MOLETEINS FOR SALE-One searing built, and built calves, sired by "Paladin Ormsby", whose 3 nearest dams serange over 33 lbs. butter in 7 days, and from dams with good records, one 10,600 lbs. in 6 months, and 7 day A. B. O. record 20.69 butter 6 days after calving. butter 60 days after calving. FRED CARR, Box 115, ST. THOMAS, ONT.

Holsteins, Clydesdales and Oxford-down Sheep

Holsteins, Olydeschies and Oxford-down Sheep. Present offering calves of both sex. Two choice fillies rising a year old. Come and see or address EDGAR DENNIS, • NEWMARKET, ONT.

WILLOWDALE FARM

Holsteins For Sale Two highly bred Holstein bulls fit for service, sired by the great Mercena's Bir Poech and. Prices moderate for quick sale.

W. J. BALD. Sebringville, Ont.

FARM AND DAIRY

********************** GRANGE NOTES J. C. Diron, of Marphore, and the second sec

. . .

W. C. Good has organized a Grange at Mt. Pleasant, with 21 charter members and these officers: Master, F. E. Malcolm; Pleasant.

. . .

Arrangements are been made for meet-ings in Dufferin county this week to be diffused by Col. Frazer and John Pri-tic State of Colors, Melanchon Sits, March 15th; The and Shebburn arch 16th. Camilla, 17th and Shebburn arch 16th. Camilla, meetings will be in the alternoon at 2 o'clock. . . .

Preliminary steps were also taken look. ing to the organization of a Grange at Holatein. J. A Ferguene and Parve John MeArthur are a committee for the pur-pose of making arrangements for organ-ization meetings to be held shortly.

. . . E. C. Drury, Screetary of the Canadian National Council of Agriculture, caught a severe cold while in Prince Edward County organizing Granges, and was laid up for a week. He is, however, now on the mend and will be all right in a few days.

SUCCESSFUL AYRSHIRE SALES

SUCCESSFUL AVRSHIRE SALES The sale of Arrhitres offered by N. Drovent of liamilton, on March 9, st-transformer of supers. While the former prime number of buyers. While the former prime record covers and their program to secure their herdise as the secure to the secure of the secure error on hand and and the secure to their program to the secure to the secure transformer of the secure to the following: <u>Maine</u>

Duke of Hickory Hill, 55%, two years, to A. Merryweather, Richburg, for 55%, Spr. of Hickory Hill, one years, to P. Do K. Millis, one years, to P. Do McArthur, N. Millis, one years, to P. Do McArthur, N. Koelson of Hickory Hill, Rev McArthur, N. Scelaror of Hickory Hill, Spr. Manino, Spi. Silver King F Hillofg, Hamilon, Spi. Silver King F Hillofg, Hill, four Bendre, Sor. Menon of Hickory Hill, Gerden, Howick, Sor. Hull, four Bendre, Sor.

Bin, four mourns, n. uoraon, Howick, 825. Fennales Empress 1266, to H. Gordon, 8100; Jeas Morton, 2307, to H. Gordon, 8300; Puedees of Rockton, 840 H. Gordon, 8300; Puedees of Rockton, 840 H. Gordon, 8300; Puedees of Rockton, 840 H. Gordon, 8300; Puedees of Rickery Hill, 2325, to P. D. Me-der Hickery Hill, 2325, to P. D. Me-der Kaindow Orek, to oprint, 845; Floseit et Raindow Orek, to oprint, 845; Floseit Spotty of Hickery Hill, to Geo, 84, 847 Spotty of Hickery Hill, 108, and, 2368, to W. Crimers of Magle Lane, 2368, to M. Crimers of Magle Lane, 2368, to M. Crimer

Yearlings

Vearings Joss of Hickory Hill, Bector Gordon, 800: Not Exciling Hildsory Hill, 9 mos. to P. D. Machell of Hickory Hill, 9 mos. to Ninnle of Hickory Hill, 10 mos. 1800; Minnle of Hickory Hill, 10 mos reas: 4800; Minnle of Hickory Hill, 20 mos reasons and the second Hickory Hill, 20 mos Hill, 10 mos reasons Arthur, 835; Queen of Hickory Hill, 800; Arthur, 835; Queen of Hickory Hill, 800; Arthur, 835; Queen of Hickory Hill, 800; Mickory Hill, 20 mos Hill, 800; Mickory Hill, 20 mos Hill, 800; Arthur, 835; Queen of Hickory Hill, 800; Arthur, 800; A

drilling machines manufactured by Wil-ilam Broz. Likas, M.Y., They are the acknowledged stand, M.Y., They are the made. Over 70 sizes and styling, beh-humbly, strong, compact and durable, es-proprior and the stand strong and the difficult of solid or rock. Mowelld in every kind of solid or rock. Mowelld in every kind of solid or rock. Mowelld thrilling pays big profits-small capital drilling pays big profits-small capital drilling pays big profits-small capital drilling a machines are most eds williams Bros. Insufficient event-iogue. Williams Bros., tibaca, N.Y.

HOLSTEIN OFFICIAL RECORDS

HOLSTEIN OFFICIAL RECORDS Lilly Westwood 2nd (3966) at 8y. 10m. 27d. 1502 lbs. fat, 20.02 lbs. butter, 57.96 lbs. miks 14day record at 8y. 10m. 2/d. 31.40 lbs. fat; 39.26 lbs. butter; 1.13d. 15b. milk. Owned by Thos. martley, Downsview, Ont.

Ont. Lady Abbekerk De Kol (8:03) at 3y. 2m 7d., 15.69 ibs. tat; 19.61 ibs. butter; 421.4 ibs. milk. Owned by E. Laidiaw & Sons Avimer. Ont. 15.65 milk. r. Ont.

Tady Abbekerk De Kol (663) at 3y. 2m, rd. 156 Ubs. 1at. 193 Like on art. 421.65 libs. milk. Owned by E. Laidiaw & Sour-All met, Out. Porch (1962) at 3y. 1m, 17d. 1.50 Unt. Porch (1962) at 3y. 1m, 17d. 1.479 Ios. fat. 18.69 The latter; sol.5 Ios. milk. Owned by E. Matter, Sol.5 (198 Mills, Ont. Berger (1982) at 3y. 2m, 45. 11.65 at 11.65 (1982) at 3y. 2m, 15. 11.65 (1982) at 3y. 2m

Ont. Jorinska Princess (1153) at 2y, 2m. 26d, 9,75 [Dos. fat; 12.22 [Dos. Dutter; 360.31 [Dos. stills, Online up & C. Gilbert, Paynes s Trake May (9779) at 2y, 4m. 23d, 9,72 [Dos. fat; 12.5] [Dos. Dutter; 200.5 [Bos. mills, Owned by & C. Gilbert, Paynes Mills, Out.

Ont. Jennie Posch Cornelia (10437) at 2y 7m. 10d. 945 ibs. fat; 11.94 ibs. butter; 2394 Burgeninic, Gwand by William Smith, Pauline Pet 2nd (12352) at 1y; 1im. i5d., 9.48 ibs. fat; 11.65 ibs. butter; 1504 ibs. milk. Owned by F. E. Petti, Burgesser ville, Ont.

Patiline Concordia Cythenia (1984)
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Clocke built carres by a son of Nuther Ind Aaggie De Kol champion Benoty Performance cow for 1999, milk 14,664 of hutter, 880 lbs, and out of two year old poster, 880 lbs, and out of two year old cords for Performance benefits with re-cords from 1400 Performance cows with records from 1400 Performance cows with records from 1400 Performance or With records from 1400 Perf

GOSSIP WELL DRILLING PAYS An ordinary mechanic can easily and days in milk, 320, 600 mature class; An ordinary mechanic can easily and days in milk, 320, 600 mature class; accessfully operate any one of the well. Cont. From age and easily and days in milk, 320,600 mature class; accessfully operate any one of the well. Cont. From age and easily and days in milk, 320,600 mature class; J. M. VAN PATTER & SONS, Ayimer, Ont. From age and the sons, Ayimer, Ont. Cont. From age and the sons and the sons age of t

March 16, 1911.

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I. N. HOV CLON

FOR SALE and heifer Also six e eight to for bank Butte If you wan to write. e A. E. S

A pure br service, fro reasonable, write to J. H. S.

Heifer C. richly bre Mercena M Abberkerk winner wh hanna Rue and put or registered. E. L. GAR

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HOLST FOR SALE FOR SALE 15 months; write for pr nection vis

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TAMWORTH

Beveral ch Bear, dams champion b bred to you tured sows.

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W. R. SHIELDS, Mount Pleasant, Ont. Bell Telephone.

Homestead Holstein -Herd-

Headed by the great young sire Dutch-land Coiantha 86 reak young sire Dutch-shree dan sverage allowers. Dan an al-shree dan sverage allowers and the set pauline be (ko) 224, (the best masher of Colantha se family, with the great son of Colantha set family, with the great son to family and the set of the set batter in f days.

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GLENSPRINGS OFFERS

ULLIFYFINING UPTERS Bit nin pure bred bull caives rfom two to 19 weeks old. Every and the form an offic-ially tested dam. Core nor markings to suit every taste. Those they markings to suit every taste. Those they marking a source Those that wish Carmen Silva and source Reset Poset. Prices moderate. Beets Poset. Prices moderate. E. B. MALLORY, FRANKFORD, ONT.

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LYNDEN HOLSTEINS

POR SALE — Hoistain Bulls, Korndyke POR SALE — Hoistain Bulls, Korndyke Teake, No. 5609, four years old. He has 21 ows in his pedigree that a sale of the sale of the loss butter 7 days, A.B.O. Also bull on 44 months, dam 26.17 He. Also bull on 44 four large record dams. Write for par-julars. SAMUEL LEMON.

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J. W. MCCORMICK,

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RIVERVIEW HERD Offers Buil Cair born February 14th, 1919. Sire Sir Anggie Beets Segie. Six dama in pedigree average 25.60 lbs. in sevan days.

HOLSTEINS I am offering my Stock Bull, Sen of Prince Posch Pieterije C., rising three years. Also a son of Sir Hengerweid Tehee, one year old, from R. of M. cow. Telephone connection.

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P. J. BALLEY 6-10-10 Lachine Rapids, Que.

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Norman Montgomery EXPERT PURE BRED LIVE STOCK

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TAMWORTH AND BERKSHIRE SWINE,-Boars and sows for sale. J. W. Todd. Corinth, Ont., Maple Leaf Stock Farm.

HOLSTEINS AND TAMWORTHS HOLSTEINS AND TAMWORTHS FOR SALE. Seven bulls from 5 months to 15 months; 65 pigs, either sex, all ages; write for prices. Phone in residence, con-nection via Cohourg. BERTRAM HOSKIN, The Gully, Ont.

TAMWORTHS AND SHORT HORNS FOR SALE Hair won in A and offun i numa run Anton Beerrai choice young forwaired by Imp. Bear, dams by Coiwill's Choice. Chandas Dreid to Jourg stock hog. Also a fore num tared aves. A few very choice yearling and two year old shorthorn beifers. First class family. Excellent milking strain. Price right.

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FOR SALE

TWO JERSEY BULLS FOR SALE, REGIS. TERED-One yearling fit for service, 1 six months old bred from best milking strains. For further particulars address

WM. H. YOUNG - - TAVISTOCK

FARM AND DAIRY

HOLSTEINS ACCEPTED IN THE RECORD OF PERFORMANCE

Maud Bossie DE KCI (4384) mature class, 15,240.75 lbs. milk; 433.7466 lbs. fat; average per cent. of fat, 2.84; number of days in milk, 356. Owned by S. M. Peacook, Mt. Salem, Ont.

milk, 365. Owned by S. M. Peacock, Mt. Salam, Ont. Balam, Ont. De Kol (756) three year old class, 1197756 lbs. milk; 355,1956 lbs. fat; average per cent. of fat; 350; number of days in milk; 365. Owned by S. M. Pea-cock, Mt. Salam. Ont. Cock, Mt. Salam. Ont. Deven of the start of the start per cent. of fat; 355; number of days in milk, 395. Owned by Thomas Hartley. Downarive, Ont. Winnie Westwood 900 lbs. fat; average cent. of fat; 355; number of days in cent. 591. 325; number of days in milk. 291. Owned by Thos. Hartley, Downaview, Ont.

Fairy Winsummer (6654) three year old class, 11,496.55 lbs. milk; 377.659 lbs. fat; av erage per cent. cf fat, 3.286; number of days in milk, 365. Owned by Thos. Hartley, Downsview, Ont.

Downsview, Ont. Gladiolus (4037) mature class, 14,113.3125 Ibs. milk; 409,7846 Ibs. fat; average per cent. of fat; 3.32; number of days in milk, 36. Owned by John McKenzie, Willowdale,

Prokula De Kol (6635) four year old class, 12,550.8 lbs. milk; 413.3689 lbs. fat; average per cent of fat, 3.30; number of days in milk, 303. Owned by Tig Wood, Mitchell, Ont.



Stanley A. Logan

The recently elected president of the Canadian Holstein-Friesian Cattle Breed-ers' Association, Stanley A. Logan, Am-herst Point, N.S., has in a comparatirely few years built up the finest herd of Hol-stein cattle in the Maritime provinces.

Revente built eigt die React hereit of Höld, statistiche eine Marken eine Bernehmen ein Bernehmen eine Bernehmen eine Bernehmen

Dot of Elmwood (1006) at 37. 14d., 13.29 ibs. fat equivalent to 16.62 ibs. butter; 38.19 ibs. milk. Owned by R. J. Kelly, Tillsonburg, Ont.

[ai equivalent to 1638 lbs. butter; 3333 (oni. "Develop in Ly, Tm. 94, 1147 big, fat equivalent to 1644 lbs. butter; arrow of the second second second second second second second, Oat. "Second second se

Owned by E. Laidlaw & Bons, Aylmer, Ont. Mercena Artalisas (9997) at 25, 11m. 15d. 13d. 9h. fat. equivalent to 15d) fab. Madam Toene Pauline (1997) at 27, 12m. Madam Toene Pauline (1997) at 27, 19m. 6d., 11d0 Has, fat equivalent to 15d/6 A. E. Huley, Uhs, fat equivalent to 15d/7 A. E. Huley, Uhs, fat equivalent to 13d, Madam Toene Pauline (1437) at 27, 11m. 5d, 1022 (Has, fat equivalent to 13d) F. D. Eds. Oxford Control 13d3) at 27, 2m. 6d., 1000 Has, fat equivalent to 13d3 Has, hules, 2d31 (Has, 11d33) at 27, 2m. 6d., 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d., 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d., 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d., 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d, 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d, 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d, 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d, 1000 Has, fat equivalent to 13d3 Has, huley, 2d31 (Has, 11d33) at 27, 2m. 6d, 1000 Has, fat equivalent to 13d3 Has, huley, 10d3 Has, huley, 10d3 Has, huley, 10d3 Has, 10d4 Has, 10

Hes. Fottler: 282.1 lbs. milk. Owned by T. B. Dunkin, Norwich, Out. et 37, ro. 77d, 976. lbs. fat. equivalent to 12.20 lbs. butter; 345.8 lbs. milk. Owned by Ar-flur B. Dickie. Critical Onslow, N.S. Calamity Potch Kyers after (1027) at 2; 7m. 21d. 950 lbs. fat equivalent to 11.26 A. Dunn, fugresold, Ont. Centre View Bessie Ann And (1223), at 2; 71.41, 250 lbs. fat equivalent to 11.00 lbs. buster; 396.5 lbs. milk. Owned by 7.144, 250 lbs. fat equivalent to 11.00 lbs. fat equivalent to 1024 lbs. hun-ter; 199 lbs. fat equivalent to 1.104 By Bar, fat equivalent to 1024 lbs. hun-ter; 199 lbs. fat equivalent to 4.2 Jbs. Bytelial test made stability out. State 12d, 914 lbs. fat equivalent on 1124 lbs. 12d, 914 lbs. fat equivalent on 124 lbs. 12d, 914 lbs. fat equivalent on 124 lbs. 12d, 914 lbs. fat equivalent on 124 lbs. Butter; 324 lbs. milk. Owned by C. E. Butter; 500 lbs. fat equivalent on 124 lbs. 12d, 914 lb



FOR SALE—One Bull, age 10 months, and several choice bull calves. Extra fine grade Holstein bull, 1 year, fit for service. Grade calves of either sex. Also fine driving stallion, y years, bred from best of trotling stock. Write for prices and particulars, or better supe and secthem. Prices moderate for quick

MONTREAL COTTON CO.

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BURNELDE ATROMINES AM LEAVING FOR SCOTLAND after ist March to make a large importa-tion. Any orders entrusted will be care-fully attended to. Agents there have over 40 head of holfers and cows bred to freshen in September.-R. R. NESS, HOWICK, QUE.

CHOICE AYRSHIRES

Write for prices, etc., on Imported Ayr-shires. We are now buying in Bootland for Bpring delivery. Over 20 bought as a result of our October visit. First choice of 190's crops of Bulls and Heifers. Highof 1903 crops of Build and Area and Build and Calves. Two fit for service. ROBT. HUNTER & SONS, Maxville, Ont.

"La Bols de la Roches" Stock Farm

Les une la mosnes "3100K Pâl" Here are kept the oblost strains of AYRSHIRES, imported and home bred best of the base of the strain whith Ge of the base break of the base of the strain of the portes and BARRED ROCK Poulty. HON.L.J.PORGET, J.A. BISEAU, Proprietor Manager St. Agns 4a Bellevue, Qus.

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When we realize that many of these champions, their offspring and animals closely related to the best of the breed will be offered "Absolutely without reserve," there should be a record attendance of inter-

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When granddaughters of "Hengerveld De Kol," champion A.R.O. sire of the breed, Francy 3rd (Canadian champion), De Kol 2 Butter Boy 3rd, Pietertje Hengerveld Count De Kol, etc., are being offered, along with the Canadian yearling champion cow, "May Echo," 24,000 lbs. milk, and over 1,000 lbs, butter, it should convince the most critical buyer that the best that money can buy, is on sale to the highest

This is our FIRST. We will make it a "HUMMER." We intend to hold other sales in the years to come, and it is up to us to give all a square deal. Every consideration will be shown the buyer who attends this sale. No plugging, no bidding in Breeders entering cattle have submitted to forfeit \$50.00 per head on every animal returned to owner's barn.

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If you want a foundation cow, a herd header, or a car-load, it will pay you to attend this First Annual Consignment Sale of THE BELLE-VILLE BREEDERS' CLUB, BELLEVILLE, APRIL 7th, 1911.

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OUR FARMERS' CLUB

OUEREC COMPTON CO., QUE.

COMPTON CO., QUE. COMPTON CONTREX. An-rot sc-We are baring very cold and normy weather. It searce, now as though have would be searce, now as though have would be among the farme for of talk is heard among the farme for of talk is for the farme for the farmers of Canhad it would not help the farmers of Canhad it would not help the farmers of Canhad the farmers of the farmers of the farmer of the farmers of the farmers of the farmer of the farmers of the

SHERBROOKE CO., QUE.

SHERROOKE CO., QUE. LENNOX VILLS: ph. 28-Signs of spring are with us. Snow who. 28-Signs of spring terms. Stock is wintering well to impede teams. Stock is wintering well to impede pran can a sharp, advance in price of pran can a sharp, advance of discussion and it is a case of "Anvor discussion minds." Farm and Dairy is to homony minds. Their aplendi series of ar-ticles on this important subject.

ONTARIO

DURHAM CO., ONT.

DURHAM CO., ONT. HLACESTOCK, March 5.-We have had days of energy weather. Since the part of December weather. Since the part of December weather. Since the part of December weather is the loss the size of the size of the WENTWORTH CO., ONT.

WENTWORTH CO., ONT.

E.3. WENTWORTH CO., ONT. Marken K. March 6.—This winter has been mit. L. March 6.—This winter has been mit. Comparison of the second second taken aways a great deal cout thaw has been aways a great deal works and that the second second second second that the second and second seco

WELLINGTON CO., ONT.

BOOD DPICES-CA.W. "An input's horses at WELLINGTON CO. ONT. "FERGUS. March 5-The roads are not as good now as they were hore there is a good now as they were hore there is now of winter, as in some pinces to mow of winter, as in some pinces to mow of winter, as in some pinces to now of the source of the source of the sleighing, at least barys would spoil takes a quantity of balet bary is bary at down for \$500 ms fat, gather are being are down to \$675. Horese being not a number, high prices, quant and farms changing as a being not an there are being not and another and thrms high prices. Quant another have being not and another have being not and another have being not being the source of the seather has been rather could lately how cat, be the pince of the roads were reting have found as the pince into the are cheap, soling are, the has been rather could lately how cat, but the same bar bord deal. The roads were reting have found deal. The roads were reting have foun

March 16, 1911.

He spok at some "events" institute. He spok us his views on "Goopration," givin, may not have all <u>matter</u>. While we certain points, he showed what he him or cooperation meant in the true semse 0; in word, every one working together for low ord, every one working together for own softbal interest. = 0.05.

OXFORD CO., ONT.

OFFORD CO., ONT. GOLFDEL, March 6-Had quite a snow fail last. March 6-Had quite a snow the roads bare. Which is high wind blow deepi some spots that were badly diffed one sold at werk cows sold wery high one sold at werk cows sold wery high one sold at werk cows sold wery high for sold for \$50, To \$100; one two year old for \$50, To \$100; one two year old for \$50, To \$100; one two year old for \$50, To \$100; one sold mileot here called many of them sold mileot here called many of them and its products and as Chepp and milk here feed most of their grain. With this and rural teleph a short time, with the town. Most of the farmers he almost phone. Hinto HURON CO., ONT.

According to the Bureau of Industries, According to the Bureau of Industries, the open realing human of hilled during ing i, 6/28 horses, 50,990 cattle, 30,350 (blow-ing i, 6/28 horses, 50,990 cattle, 30,350 (blow-they are an end of the second second second they are an end of the second second second they are an end of the second second second points were on hand the Bender blows there were on hand the Bender blows there were on hand the second second points were and hand the second second points. The sheep, 56.706 write, 50.506 point, 75 are second second second second points, the second second second second points 126.608 regions are second second second the second second second second second second second second the second second

on county tarmers have not been idle.-BLAY Sentinel. BLAY Sentinel. BLAY Sentinel. BLAY Sentinel. BLAY Sentinel. BLAY Sentine. BLAY Sentime. Many farmers have and are been inne. Many farmers have and are telline. Many farmers have and are being the sentime of the sentime sentime. Many farmers have and are being the sentime of the sentime are odd in the past they show sizes of a good in the past they show sizes of a good in the past they show sizes of a good in the past they show sizes of a good in the past they show sizes of a good in the past they show sizes of a good in the past they show sizes of a good in the past they show sizes of a greement now gending between trade are undoubledly in population in Huron and the United States_H.R.S.

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AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Can-ada. Breeders of Ayrabire Cattle and abure of the Canadian Ayrabire Breeders of the Canadian Ayrabire Breeders of interesting are invited to send items of interesting and the solution.

Trenty-nine head of Ayrahires includ. Termity-nine head of Ayrahires includ. Inst week 50 fill we cold at auction last week 50 fill we prove that a solution state of the solution of the solution of the state of the solution of the early purchased a hulf necessary means that head the solution of the head of the solution of the solution of the solution of the term of the solution of the solution of the solution of the term of the solution of the solution of the solution of the term of the solution of the solution of the solution of the term of the solution of the solution of the solution of the term of the solution of the solution of the Mr. P. D. Mearthur, Progrator of the

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March



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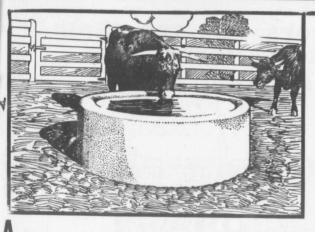
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Which?____



This or The Other — Which is Your Choice ?

Sloppy, Leaky Wooden Troughs-or Clean, Sanitary and Durable Concrete ?

Wooden drinking troughs are about as reliable as the we_her.

They are short-lived, and require replacing every few years—not to mention constant patching to keep them in repair.

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