

## FARM AND DAIRY.



## **B-L-K MILKER**

aboy can milk the cows and can milk 20 of them in an bour. That may seem a liftle steep to you, but it is being done, and the owners of the B-L-K are loud in their praises.

If you drop us a card we will send you our literature on any of our lines. We are also dealers in all kinds of cheese factory, creamery and dairy supplies.

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D. Derbyshire



John A. Bruce & Co., Ltd., Hamilton, Ontario

## Activities of the District Representatives

Dundals district, whore drainage is needed so badly. His terms are at acoderie se badly. His terms are at the r.so of a conts a rod for a 3% foot ditch with five ger cont. off for ceast and no interset charged if pay-ment is made on December 1, 1916. Where a farmer will give his note sub-tion of the account of the payment of the account of the payment. where a tarmer will give his note sub-ject to bank approval, the payment will re axianded to December 1. 1917, the note to bear interest for one year at seven per cent."-J. C. Duff. Grey Co., Ont.

Sheep in Muskoka and Parry Sound. The Course is Agriculture at Pow-assan is the most satisfactory course as far as attendance goes, of his three as far as strandance goes, of his three conducted in my territory data win-ter. We had twenty regular folders inst week, hesides a number of older man who dropped in occasionally. The boys stranging are all young fel-lows, renging in age from shows 15 to 30 years, and they are strending regulary.

"It is just possible that we may be able to organize a Wool Growers' As-sociation at Powersan this spring. I sociation at Provensan this spring. In inght say that annually there is ablp ped or taken from the country sur-rounding. Powessan approximately \$100,000 vieth of livestock. One drover signes -shipped 2,000 shoop from Powessan last fall. A number of the fammer, have available fields of from Powensean last fall. A number of the farmers have succellent flocks of sheep, the Shropshire breat bring the most popular. One targe sheep and east of Powensean consists of the cast of powensean consists of the acres of succelly rouge hard when could be cultivated. This was doly could be cultivated. This was only started last summer, and at the prestarted fast summer, and at the pre-sent time the proprietor has 150 ewes. He has built up-to-date sheep barns," --F. C. Paterson.

Brockville Ayrshire Breeders Meet. "At the annual meeting of the Brockwith Breaders' Agrobite Club at Broakville Breeders' Agrobite Club at Broakville there was a gook repre-sentative attendance of the Agrobite preders of the county, and a useful meeting resulted. The members of the club are very strongly in favor of having milk supplied to cheese factories, etc., according to test."-W. H. 3mith. Hastings Co. Farmers Co-operating.

"By spacial request I addressed the Sidney Farmers' Club at Aiken's Corbeing where about fifty farmers as-semiled to hold the second annual meeting of their Club. The Club did nearly \$4,000 worth of business last year. In several lines the members of the Club claim to have patronized their home town with Club orders at reduced prices. The Club has also installed a 4-ton scale at Sidney Grossing, and have a largely signed petition to present to the Grand Trunk authorities requesting a station at that point The Club is also using its strongest influence to secure additional

phone service not now available. "The Anson Farmers' Club has or dered a carload of raw limestone dust, which is to be tried out in an experi-mental way by many of the members of the Club."-A. D. Mointosh.

Vrung Farmers Busy in York County. "On Wednesday we had a com-bined meeting of the Junior Farmers" Improvement Associations at Rich-mond Hill. We had a large attendance of boys from all parts of the county. of boys from all parts of the sounds, the morning was special in discussions by the boys on the different competi-tions and other phase- of the work. They took hold of it well, and worg-thing parsed off well. These com-petitions seems to be more popular than ever inthis county, and saveral of the boys expressed their dware of advance of the boys expressed their dware of taking parts the boys expressed the boys exp

of the boys expressed their drame taking part in them next season. "In the afternoon it was decided to form a County Board of the Junior form a County Board of the Junior

bill corner of a ditching machine made some very tempting offers to the farmers in He ad sthrict, we'very diminers in He so badly. His terms are at the badry and the following of the badry and the badry and the following of the badry and the badry and the following of the badry and the b

March 10, 1916.

chosen ine omoars, une toutowing or Boers were elected: "President, Robert Watson, Wood-hridge: Vice-Fres, Angus Cowieson, Queenswille: Secretary F. O. Sullivan, Todimorden; Committee, Walter Beldock, Weston; H. Smith, Aurora, and Jas. Hope, Newmarket."-J. C. Stick-

Domestic Science Course in Middlesex. "The Domestic Science Course which closed this week was exception which chosed this week was exception-ally with an entropy of the second second entropy of the second second second entropy of the second second second tendence of 56 might second second tendence of 56 might second second tendence of the second second second second second second second tendence of the second second drove sine miles to the course after miliaity six cows and doing their house work."- St. A. Finn.

## Feeding Cottonseed Meal

Preeding Continuent at an internal Control and a solution of the pro-of particular sites and therefore of particular sites and therefore tamere. An analysis of the discussion rather and the solution of the sites arises very clearly. As compared with 37.4 labs of discussivily proteins in 100 list of cottanseed meal, there are only 12.4 list, in barry arise, in the preventy gradma, and in lineared meal disc. Ins-critication of the site of the site of the site of the prevents of the site of the site of the site of the prevents of the site of the site of the site of the prevents of the site of the site

realine, and in lineoed meal 29.2 line. In the second seco

This concentrate must be fed with caution, as it has been proven that hualreds of cattle have been killed by injudicious feeding of cottonseed by industrictous resetting of cottonested meal. One pound in the ration in anounds at first. The setual amount fed does not exceed throw to there and one-half pounds for a dairy owe, and best results are obtained whon fed in combination with lighter foods, such thread on the dairy daily another a setual thread on the daily another another a as bran, or mixed with ensilage. Some feeders give as high as six pounds of cottonseed meal to heavy milking cows, and claim that they can thus increase the milk yield without any harm to the cow.

The man who's altempting to es-tablish a market for fancy busier has an additional reason for being cau-tions in the feeding of cottonseed meal. tions in the feeding of cotton and mean Ped backly; it produces butter of poor flavor, which has the appearance of being overworked, All without butter, hand shows that it bardens butter, gives it a tallowy consistency, and makes it defeint in astural color. Ped makes it dateleas in intural coinc. Pool in reasonable quartilles, however, collonseed meal produces satisfactory furter, which is firmer than ordinary butter, and would stand shipping be-ier in warm ethnafes. All are well ad-vised to leave orthonseed meal ab-vised to leave orthonseed meal absolutely alone when feeding calves and 71000

No animal responds more quickly to kindness than the dairy cow. No animal will punish its owner for larsh treatment with a dollars and cents discount, more quickly than the



VOL-XXX

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F OR the mos pend on w to feed h therefore, large dles his land, among farmers use of the land

In Canada we to yields. Last to the rainfall, beyond anything In the West I s yielded 75 bush which ran over . forage crops has

These exception weather condition best farmers ha There is no reas in the aggregate are at the presen who are only ha handle the land method as their do not realize th depleted fertility. market demanda in farming metho our total yields is intelligence and a ing practice.

Ticklin We must have something that wi and one of the first feed is palatability a cow eats 100 por certain amount of she can be induce will get more than Palatability in the eat the extra amo

Another importa the feed. You may a cow, but if it tal duce it you may n the transaction. T that 10,000 pounds or from \$60 worth. sider the cost.

When Of all succulent I acceptable to the fa the cow as any. It pal crops in Ontan grown successfully pal recommendation large amount of it Last fall we harves 85 acres at the Expe Besides a succuler



PETERBORO, ONT., MARCH 16, 1916

The Feed To Grow and How To Grow It An Outline of Methods Particul arly Applicable To Eastern Ontario Conditions

OR the most part the dairy farmer has to de pend on what he can grow on his own farm

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to feed his stock. His success or failure, therefore, largely depends on the way he handies his land, and the cause of most failures among farmers is they have not made the best use of the land which they worked.

In Canada we fall down as a rule when it comes to yields. Last year was an exception for, owing to the rainfall, our yields have been sway and beyond anything we have over heard of before. In the West I saw fields of wheat last fall that yielded 75 bushels per acre, and fields of oats which ran over 150 bushels per acre. In Ontario forage crops have yielded in proportion.

These exceptional yields were due largely to weather conditions, but the fact remains that our best farmers have excellent crops every year. There is no reason why our yields should not be in the aggregate 50 per cent. better than they are at the present time. We have too many men who are only half farming, who are willing to handle the land along the same lines of ordered method as their fathers and grandfathers. They do not realize that changed conditions such as depleted fertility, the weed auisance, and altered market demands require a corresponding change in farming methods. What is needed to increase our total yields is more care, more thought, more intelligence and a little more labor in our farming practice

## Tickling the Cow's Palate,

We must have in the feed of the dairy cow something that will make her consume a lot of it, and one of the first considerations in growing the feed is palatability from the cow's standpoint. If a cow eats 100 pounds of feed, giving therefrom a certain amount of milk, the chances are that if alle can be induced to car 150 pounds of it you will get more than a proportional increase of milk. Palatability in the feed is what will induce her to eat the extra amount.

Another important consideration is the cost of the feed. You may get 10,000 pounds of milk from a cow, but if it takes \$100 worth of feed to produce it you may not be making much money on the transaction. The objective should be to get that 10,000 pounds of milk from \$80 worth of feed or from \$60 worth. In all feeding operations, consider the cost.

## Where Corn is King.

Of all succulent feeds corn ensilage is the most. acceptable to the farmer and is as acceptable to the cow as any. It is already one of the principal crops in Ontario and Quebec, and can be grown successfully all over Canada. Its principal recommendations are its succulence and the large amount of it that can be grown per acre. Last fall we harvested 1,200 tons of silage from 85 acres at the Experimental Farms at Ottawa Besides a succulent feed dairy cows demand a

## BY J. H. GRISDALE

dry food rich in protein. For this purpose alfalfa is very suitable. We grow it in our hay mixtures, but there are various objections to growing it alone. It requires special preparation of the soil and makes necessary the setting apart of certain areas on which to grow it. Unless a field is set apart for it, it disorganizes a farmer's rotation. The common clovers, red and alsike, have the advantage that they are more easily grown than

## Wages of Farm Help

HE wages paid for farm labor in Canada in 1914 fell to a lower point than in any other year. The auses for this decrease were the small crops of 1914 for the gathering of which fewer hands were required, the release of other laborers on the outbreak of the war and the increased cost of board. In 1915, owing to the abundant harvest and the effects of recruiting for the army, there was some reaction, and the average wages paid were more than in 1914, if not quite equal to those paid in 1910, the date of the previous inquiry. For the dominion the average wages per month during the summer, including beard, were \$37.10 for male and \$20.20 for female help, as compared with \$35.55 and \$18.81 last year. For the year, including board, the average wages were \$341 for males and \$200 for females, as compared with \$323.30 and \$189.35 in 1914. The average value of board per month works out to \$14.57 for males and \$11.45 for females, the corresponding figures of 1914 being \$14.27 and \$11.24. Average wages per month were lowest in Prince Edward island, viz., \$26.67 for males and \$14.59 for females; in Nova Scotia the averages were \$32.95 and \$15.85; in New Brunswick, \$33.73 and \$16.11; in Quebec, \$33.08 and \$16.44; in Ontario, \$31.09 and \$17.12; in Manitoba, \$45.18 and \$27.59; in Saskatchewan, \$42.22 and \$23.81; in Alberta, \$44.02 and \$24.25, and in British Columbia, \$49.37 and \$31,21

alfalfa. We all know how to handle them, and they fit into our rotations splendidly. With the average farmer they yield almost as much as alfalfa

For the cereal part of the food grown on the farm nothing can equal oats, and of these the

Banner is as good as any. Besidea furnishing the cereal part of the cow's rotation, the oats furnish the straw so necessary about the cow barn. These crops, corn, clover, and oats, together with the straw, are the main ones to grow. Eliminate one of them and there is a lack as far as the feeding of dairy cattle is concerned. They have the additional advantage that almost every farmer knows how to handle them.

No. 10

## Increasing the Grops.

For centuries it has been recognized that certain crops do better after certain others. From this observed fact has arisen the practice of rotation, and all experience tends to emphasize the great importance of rotation in farming practice. Corn never fails to grow on spring plowed sod or pasture which is properly prepared. A light coat of manure should be applied on the surface of the sod, after which it should be plowed to a depth of about four inches. The roller should follow the plow immediately, the soil should be very well cultivated, and the corn sown right away. Where this procedure fails it will be found to be generally due to not rushing the work through as fast as is consistent with thorough cultivation. Wisconsin No. 7, White Capped Yellow Dent, or Early Learning are suitable varieties. The corn should be sown in rows ti.ree and one-half feet apart with a wide grain drill. One advantage of seeding in rows is that it can be done more rapidly; another is that if the drills are kept straight a great deal of labor will be saved in the summer cultivation. Then, when it comes to harvesting it is easier and more satisfactory to cut corn that has been sowed in drills rather than in hills. For summer cultivation there is nothing to equal the two row cultivator, but for its satisfactory use it is absolutely necessary to have the rows straight. Neglect in this matter at the time of seeding will be a cause of worry the whole year through.

## Growing Three Crops a Year.

Each year the farmer should make provision for the growing of at least three crops, that is, the crop under cultivation, and the crops which are to succeed it on the 'wo following years. For this reason corn should be kept as free as possible from weeds, and should be handled with a view not only to reaping a large corn crop, but also to harvesting maximum yields of the crops. which are to follow it.

Do not disturb the soil too deeply after the corn is harvested. If plowed, it should be plowed very shallow, but we have got the best results by simply using the double disc harrow. The disadvantage of this method is that it leaves the corn stubble on the surface, but otherwise it gives the best results.

"A synopsized report of an address delivered by J H. Griedale, B.Agr., Director Dominion Experimental Farms, Ottawa, at the E.O.D.A. Convention in Res-

Oats, barley or wheat may follow the corn, and these should be seeded iown with grasses and clover. The following mixture is coatly, but the yields amply justify the extra expense of the seed: red clover, 6 pounds; alsike, 2 pounds; alfalfa, 6 pounds, and timothy, 6 pounds.

The land should be left under this mixture for one year, or at most two years, depending on the length of the rotation. When the farmer has a permanent pasture lot the three year rotation, viz, corn, grain and hay, is the best rotation for profit in Eastern Ontario. If it is necessary to have the rotation include pasture, then the four year rotation, corn, grain, hay and pasture is the best one.

FARM AND DAIRT.

Although experience and experiment have proved the beneficial effect of short rotations on our aggregate yields of field crops, still it can

## March 16, 1916.

safely be said that only one or two percent, of the far.vers of Canada are closely following such a rotation. We are becoming more and more convinced of the necessity of following erop rotation if we are to get the results that we should The object of the farmer should be to drive the land to its limit, for the larder it is driven the more liberal is its response to the work put

# All Around the Farm---Suggestions From Our Folks

L. Harnar Parr, Hastings Co., Ont. 66 I<sup>F</sup> a jo<sup>b</sup> is worth doing well."

This is an old adage and applies equally well in the production of milk, whether it be for immediate consumption or to be manufactured into deiry products. A first-chass article, either of bufter or cheese, cannot be made unless the raw material is first-class, too. I have learned that the following precautions have to be carefully adhered to if a first-class article must be produced:

(1) The cows should be groomed daily, and their udders washed previous to milking.

(2) The fore milk should be rejected.

(3) Feeding should always be done immediately after milking.

(4) Cleaning operations should be finished, some considerable time before milking to allow the dust to settle.

(5) Narrow mouthed pails should be used, and the milkers should wash their hands several times during milking.

(6) Milk should not be exposed to the air of the stable after milking, but should be immediately removed and cooled down to 40 degs, at which temperature bacteria cease to develop.

(7) All utensils should be thoroughly steamed before using.(8) The use of unclean cloths is a frequent

source of bacterial contamination, and should be carefully avoided.

## Experience With Ground Limestone J. A. Macdonald, Kings Co., P.E.I.

THE use of lime-not burnt lime, but ground lime rock-as a fertilizer in the last couple

of years has attracted the attention of many wide-awake farmers. On one farm—the writer's —ground limestone was applied a year ago last spring to alternate strips on a field that was being sowed to oats and seeded down

to chorer and innothy. The experiment was repeated last year. In 1814 little if any result was observable in the oats, but in 1916 the clover on the limed land was nearly double that on the untreated land. Last year the oats on the lime treated land were somewhat better than on the untreated land, due possibly to the somewhat finer ground.

Now, these are matters of fundamental importance. If ground limestone will accomplish nothing else than cause a lig increase in the clover fields of the country, it will pay to apply thousands of tons of it to the farms of Eastern Ontario, Quebee and the Maritime Provinces, for everyone knows that clover is a great soil enricher, and that once the farmer has established the clover crop on his

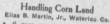


A Calf Barn With Many Commendable Features. Particularly notice the amount of window space. This barn is long and marrow, with just one row of box stalls and a feed passage. At the back. The photograph was secured by an editor of Farm and Da for on the farm of 0. A. Brethen, Peterboro Co., Ont.

farm, he has, to a large extent, solved the whole question of soil fertility. More clover and yet more clover has changed many a run-out farm into productiveness, and has laid the foundation for the successful growing of all kinds of crops and for the feeding of tive stock.

Now limestone is abundant, and transportation facilities should make it accessible to the Western county farmers. The question, therefore, arises, Can I afford to do without lime? What can I afford to pay for it? Should the farmers in my section of the county cooperate to buy a portable limestone grinding machine? How much limesione shall i apply per acre? And so on. These and many other questions in regard to the use of limestone are, or should be, up for discussion during the present white.

Mind that many a person has a mistaken notion in regard to the use and value of lime. It is not a ferilizer. It is a soli àmendment that corrects acidity and improves the physical texture of the soil, and so makes it possible for manure and ferilizer and cultivation to do better work. It is necessary to understand this fully before one makes up his mind refinitely as to what he



S soon as the snow is off the field, but while the frost is still in the ground, I haul the manure. I do not like to haul it on the snow as' too much is lost by leaching, and we find that it don't rot much in our yard until the spring rains and warm weather come. Our yard is but small with a wall around it, and the cattle keep the manure tramped down About the middle of May, or when the clover has made a good start, I plow it down about six inches, I intend to get a subsoil lance to' put on my plow for plowing sod and then to plow six inches, and to work up about three or four inches more with the lance. I prefer the walking plow

to the sulky plow, as I have yet failed to see one make as good work as I can make with my walking plow.

After plowing I go on with disk and roller. I have only a common 16 inch disk for two or three horses, but I wovid prefer a double disk as it makes betteg work and disk twice in one operation. When the weather is fit and the seed bed ready I sow my corn, usually White Cap Yellow Dent, in rows three and one-half feet apart in about a week I go over with my lever harrow and repeat again in a week or so-to kill all weeds that might have germinated and to keep the soil loose on top to stop capillary action. As soon as the rows can be seen I start my two row culturator and go over as often as necessary to keep the soil loose on top.

We usually go ever twice with the hand hoe. If the field were very weedy 1 would prefer to plant in hills three feet part each way, but my land is fairly clean, and 1 find 1 can get more folder if sown in rows and the stalks aren't so hard and woody. I get a fairly good amount of enr. too.



This House, Too, Has Its Good Points. The monitor prove of roof with windows facing the south is desirable where there are two proves of stalls and the feed paragage in the centre. Bunilisht is the cheapest of all gern index, and we can't get too much of it in the call barn.

## Clean Turnip Seeding E. F. Eaton, Colchester Co., N.S.

We have a plan here, followed when seeding turnips on a weeds field. The land is thrown in ridges early in the spring. The weeds soon leave the field. Just before seeding we draw the chain harrows (a plank drag would do), over he top of the ridges. This cleans a space to sew the seed in. The weeds between the rows are then killed with a scuttler. The seeding space is free from weeds, and the removal of the top dry soil leaves a nice moist soil for the seeds.

We don't like weedy fields, but when we have them we must make the best of it, and the foregoing hint has often proved valuable to us. In our moist climate weeds grow more readily than in ontario, but even there the hint may prove of value.

### March 16,

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L AST spri Dairy of while, Que., much imprement on spri The portion and winter'w tion top dress killed.''' W Dairy Farme winter top d recent issue full as follow ''Have you

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AST spring one of the editors of Farm and Dairy called on Mr. Geo. Beech, of Cowansville, Que., and, in looking over his farm, was much impressed with the results of an experiment on spring versus fall top dressing of clover. The portion of the field top dressed in the fall and winter was a 100 per cent stand. The portion top dressed in the spring was badly "winter killed." Why the difference? "Kimball's Dairy Farmer" explains the value of fall and winter top dte sing so fully and clearly in a recent issue that we reproduce their editorial in full as follows:

Manure Prevents Winter Killing

March 16, 1976.

"Have you ever heard of clover or alfalfa freezing out? Surely you have. But have you ever stopped to think how seldom it is that either of these most valuable plants really freeze out because of severe cold weather? You know they do not freeze out in the far north as badly as they do farther south, where winters are not so cold. You know that alfalfa grows successfully in Siberia and that it does not freeze out there.

"But you also know that both clover and alfalfa winter-kill. If they did not, they would be raised more generally on every farm where cows are milked; and, with more alfalfa and clover, milk and butter-fat production would be more profitable. Cows would yield a greater quantity and keep at it more persistently throughout the year. Less protein foodstuffs would have to be purchased. Fields would remain richer. Prosperity would be greater than it already is.

"What is the trouble? If these plants do not freeze up what does happen to them? They are heaved out.

## Winter Killing Explained.

"When spring comes, after the plants have lived all winter, the sun shines brightly and the surface of the ground thaws. At night it freezes again, it cracks and heaves.

The tiny root of the alfalfa and clover is broken and naturally the plant dies. This is the usual procedure that ruins the fields of these useful legumes. Where one plant is really frozen out by severe cold weather, thousands are killed by alternate thawing and freezing. In climates where cold weather and snow continue until late in spring, when the snow gradually thaws and then the frost leaves the ground, to stay away until another winter comes, little trouble is experienced from winter-killing of clover and alfalfa. This teaches a valuable lesson. If we can keep the frost in the ground until spring has come to stay, we can save clover and alfalfa. This can easily be done by top dressing fields

now when they are frozen, especially where they are covered with a few inches of snow.,

"The covering will hold the snow on the ground until long after snow that is not covered has melted. It will hold the frost in the ground until long after the frost has left ground that is not covered.

"The crop will not only be saved but the fertilizing ingredients of the manure that will leach into the soil surrounding the roots of the plant will hasten growth when spring rains come and the sun warms the soil. Profit enough greater to pay for this top dressing of the land will result even though the plants would have lived without these extra precautions.

## FARM AND DAIRY.



An Enjoyable Springtime Task.

"Best of all, the habit is formed of hauling and distributing the manure daily from around the barn. There are very few days in most climates when it is impossible to spead manure on meadows, pastures and fields, and once it is there, fuller fertilizing value will be secured from it than though it were allowed to accumulate in piles in the barnyard to give inconvenience all winter and a big job next spring.

"Not on one dairy farm in a thousand do conditions justify permitting manure to pile up at the barn when it could be serving such com-



## Gathering the First Grop of the Season.

A vat or barrel on the front bob saves many steps in mathering the juice of the maple. A scene in the sugar bush of Geo. H. Montromer, Phillipsburg, Que. --Photos by an editor of Farm and Dairy.

mendable purposes so well if spread out where it belongs."

There may be room for discussion as to the relative merits of daily versus spring spreading of the manure on corn ground. For top dressing clover, however, the argument is closed ;- winter applications are advisable.

Is the development of milk veining on the belly of the dairy cow a reasonably accurate indication of producing ability? Prof. R. R. Graves, of the Oregon Experiment Station is investigating the subject. He tied the milk veins of a pure-bred Ayrshire cow so that no blood could pass through those we ordinarily see extending forward from the udder. No ill effects came to the cow.

## Home-Made Maple Vinegar T. H. Mathison, Grey Co., Ont.

(5)

N the pioneer days, when the thrifty house

wife had not so much money to spend as she has at the present time, she was keen to take advantage of any scheme that might suggest itself for effecting a saving in her household expenditures. One of the ways commonly made use of was the manufacture of ner own vinegar. Nor was this in any way a hardship. The product. which she made was much superior to much that is retailed over grocery counters at the present time, and the trouble and expense she was at in making it, was not great enough to be a serious consideration.

It may seem mysterious to some that materials so different as muple syrup and vinegar, can be made from a common source. The process, however, is comparatively simple. Small organisms change the sugar of the sap into alcohol, and the alcohol in turn is changed by bacteria into an acid, in this case into acetic acid.

Where a considerable amount of maple syrup or sugar is made, an abandant supply of vinegar can be obtained from what would otherwise be waste products. The washings from the pans, strainers, ctc., which have been used during the making season, can be collected in a barrel placed there for the purpose. The last few days" flow of sap, usually having a disagreeable taste, and, therefore, unsuitable for sugar making, can also be utilized. The ordinary sap can, of course, be utilized as well, and when used for vinegar making it should be reduced by boiling to oneseventh of its original volume.

The alcoholic fermentation will usually set up of its own accord in the barrel which contains the sap or washings. It proceeds best at a temperature of about 50°f. If the process is not fast enough, it can be hastened by an addition of a little yeast, a cake or two of ordinary compressed yeast being suitable. This fermentation should

be complete in about two weeks.

After the completion of the alcoholic fermentation, the material is strained into the vinegar barrel. The mother of vinegar is then added. This greyish, slimy mass consists of innumerable bacteria, which attack the alcohol that has been produced and change it into acetic acid. A temperature of 70 degrees is most favorable for the working of this form of bacteria. Besides the favorable temperature, a liberal supply of air is required. This is best secured by laying the harrel on its side and boring two holes, one al either end, through which the air can pass freely over the contents. The holes should be covered by screens to prevent the access of flies or other

insects.

Maple vinegar, properly made, is one of the very choicest of all vinegars. Its flavor is far superior to most of the commercial varieties, and it is regrettable that no more of it is made. Any farmer having a few maple trees in his wood lot, or along his fences, can easily put up enough to supply all the needs of his household during the entire year.

## FARM AND DAIRY.



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In the second se

International Harvester Company of Canada, Ltd. Brandon, Calegry, Edmonton, Estevan, Hamilton, Lethbridge, Loudon, Nonreel, N. Banton, Otawa, Ouebec, Regina, Saskatoon, St. John, Winnipeg, Yorkion



FEEDERS CORNER

## Clover Silage

N most sections of our country corn I'v most sections of our country corn is the important slage crop and there is no doubt that it is more successfully ensiled than any other crop. However, there are times when it would be both economical and con-minant in us clayer after the slip bett It would be both economical and con-venient to put clover into the silo, but in many cases the farmer is doubtful of the results which he might obtain.

The Montana Station carried on The Montana Station carried on a series of experiments with clover si-lage for three years, the results of which are set forth in Budietin 94. They used the second crop of clover, and whenever it seemed off clover, and whenever it seemed for, enough water was added to make it pack well. The resulting these sement to be of whice was added to make it pack well. The resulting slage seemed to be of good quality and the oath at it readily. To test the feature of the slage they fed avo lots of the cows each for five works. One of the ceived grain, timothy hay, and clover chines the other scale timothy hay. celved grain, timothy hay, and clover silage; the other gradh, timothy bay, and clover hay. At the end of the five weeks the feed was reversed, i. e., those regoiving silage were feed its and the other received clover hay while the other received the lage instead of clover hay. Similar experiments were carried on during the two succeeding winters. The average Two succeeding winters. The average results of three trials showed that practically three trials showed that practically three manual. Of and hay fed animal, both slages fed and hay fed animal, both slages fed and hay fed animal, both the hay fed for required 88.66 pounds of the for 133.3 pounds of slage and 32.2 while 133.3 pounds of slage and 32.2 while 133.3 pounds of slage and 32.2 The difference of 56.46 pounds of hay may be taken as the equivalent of 133.8 pounds of clover silage. In other swords, 1 pound of hay has about the same value as 2.3 pounds of the sl-lage.

## Ground vs. Whole Grain By E. L. McCaskey.

S HALL I grind the grain for all the SHALL I grind the grain for all the live order on the place? We all and ourselves the place? We all and ourselves the genetic string my ophion on the question the let us go back a piece. Downson most of the readers of Parm plary, like myselv, can remember when cooking was the fashion, and we were advised to cook almost every thing that was fed to the shock around the place, except hay, and we ware add the place, except hay, and we were ad-vised to steam that. Then the Ex-perimental Stations came along with their careful work, and failed to find their eareful work, and failed to find any particular advantage in cooking, Still inter we were advised to sook the real and sprike the har, and agains the Experimental Stations failed to and the decidedly beneficial results that propagandista claimed for the method. Now that the question is grinding, I feel disposed to again and what the Experimental Stations have what the Experimental Stations have What the post of the past, practical factors have discovered, as in the past, practical feeders soon discovered that the find-ings of Experimental Stations were essentially correct.

instementary extension of the sease of horses, ground oats have not shown any great advantage over whole oats, escept where the teams are sary hard work, or have defactive teach. For my own part, I profer rolled cats' to ground oats for our homes, and most of the grist mills therearing the country are now throughout, the country are now equipped to roll oats as well as grind. In corn, I prefer to feed cracked corn to horses, especially fresh cracked corn

March 18, 1916.

30 per cent. as, because of its coarse husk, the hog is not able to digest the whole oat to advantag. I would in-sist that the miller grind grain well, as some of them, in order to save as some of them, in order to save power, do little more than break the grain to pieces. A real good mill will reduce oats until they are almost pow-

It is somewhat doubtful whether the It is somewhat doubtful whether the grinding of corn for some classes of live stock is worth the labor and ex-pense involved. Tests conducted for ten years at the Wisconsin Experiment pense moves. Teles consumed for im years at the Wincoust Risperfuser's Station showed an average increase in gains of about six per cent, from the state of about six per cent, from the state of the state state of the state for inder corn for hogs. The recells for inder corn for hogs. The recell per cent, how station is per cent, gain. The lows station is per cent, gain. The lows station is per cent, gain, and found that while grinding shogs a slight increase in the feeding value of corn for older hogs seek gains did not been to pay the cent of shelling and grinding. Soaked shelled corn showed to much, better advantage than the corn meal, and sho proved

As much as 25 per cent. of whole corn may remain undigested when fed to cattle. Unless hogs follow the catthe in the feed lot. It is therefore de-sirable to grind the corn to prevent this waste. Streep will handle whole grain to much better advantage.

## Why **Jucculence** Pays

UMEROUS scientific trials and common experience on farms have abundantly demonstrated the value of adding succulent feeds to the rations of farm animals. The beneficial effects of succulence, wheth er supplied as pasturage, sliage, soil-age, or roots, are many. Just as our own appetites are stimulated by fruits own appertues are stimulated by fruits and green vegetables, succulent feeds are relishes for the animals of the farm, inducing them to consume more feed and convert it into useful pro-

It is reasonable to hold that such palatable feeds stimulate digestion, and it is well known that their beneand it is well known that their bene-cheal hardte all for alls greatly in keeping the digestre tract in good condition. The field of root-fed ani-umas is neared more "snappy" or vales. There is no doubt that, for breeding stock, less tense and more watery fissh, a natural sequence of feding succulence, is more conductive to vikerous young at birth and to their hearty maintenance after birth ham is the condition of hard, dry fleeh produced by feding only dry forage. through the winter.

through the winer. The dairy cow gives her maximum relurns when she is supplied with succulence. Such feeds toad toward rapid sturdy growth with the young of all farm animals. Some succulent for a generative benches in keep. of all farm animals. Some miclufext food is sepacially banoficial in keep-ing the horse in condition, to which the thrift of the work horse when tarned out to pasture bears whines. But the horse at hard or hast work should receive only a lumited allow-ance of these feeds. Sincers and sheep and and and an united allow.

make rapid and economical gains on pasture, and grass-fed animals are in the best possible condition to make rapid gains when placed in the feed Among the most important con lot. Among the most among stations tributions of the experiment stations are their demonstrations of the economy of feeding sliage to fattening cattle and sheep and of the pos-sibilities of cheapening the cost of producing pork through the utilization of pasture.-Wisconsin Experiment Station.

With hogs the case is eastredy different. Granding will increase the a Babcock test invaluable in improv-feeding value of case for hogs 20 to ing his dairy herd.

March 1

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## 16, 1916.

March 17, 1916.

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Ford Motor C Touring

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FARM AND DAIRY.

111 ANI ANI ANI 11,1 111 ANI ANI ANI 11,1 HI BR ME LY 111 Fina 8829 1881 Toronto Branch Area 133,000 sg. ft. Cost \$328,000 Montreal Branch Area 124,000 sq. ft. Cost \$333,000 

Winnipeg Branch Area 123,000 sq. ft. Cost \$250.000

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London, Ont. Branch Area 49,872 sq. ft. Cost \$161,000

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# **One Million Seven Hundred and Twenty-four Thousand Dollars** for New Buildings in Canada Since War Began WHY?

In Canada prosperous? Are we justified in having the ourrage and confidence to put on full speal absed in our business activities? be-forgotien Aug. 1. 1910 canadian Ford Company since that never-to-be-forgotien Aug. 1. 1910 canadian Ford Company since that never-be-way above par, that we are fully justified in casting adde daxiety and putting our full energy into an aggressive and progressive business

\$480

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and putting our full energy into an aggressive and progressive business policy. It was some time before the outbreak of war that the Ford Canadian Company decided on an extremely broad policy of expansion. If the demand for Ford cars should increase in the way the it had swary indication of doing, then new building would have to be started at once to enable the company to meet this demand. The second start is the second of the second start of the second store to enable the company to meet this demand. So work was begun on a new building at Ford City costing \$452,000. This is used an eave building at Ford City costing \$452,000. This is used an anew building and to the main factory building. It adds 130,000 to the office follow space to the Ford Plant branging the total up to more thin saces. The power plant was also enlarged at a cost of \$110,000. In four leading Canadian cities, allow stations. Each one is as args as amay automobile factories. All to stations. Each one is as any as any automobile factories. All to stations. Each one is as any as any automobile factories. The base we the granite. The interiors are finished and fitted in accordance with the very best modern interiors.

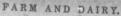
One of the branch buildings is located at Montreal, 119-139 Laurier Ave. Rast. It is a four story building containing 124,000 aquare fact of face mace and ocating \$333.00. Over 100 people are employed here. The Ford branch at Toronto, even the people St., is a five-story

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# npany of Canada, Limited, Ford, Ont.

Ford

All cars completely equipped, including electric headlights. Equipment does not include speedometer.





## My Three Breeds Mrs. Geo. Francis, Elgia Co., Ont.

Mrs. Geo. Francis, Elgis Co., Ont. Mrs. Geo. Francis, Elgis Co., Ont. Marking of poultry consists of including four cockerels, and also a sprinkling of Pymouth Rocks and Black Minorcas. The character-sitics of these birds are varied, but each breed is valuable and each has its mission to fulfi and are adopted to fulfi

ted and lots of pure water is availe table. In the Plymouth Rock we have a farge bird with a beautiful plumage and well shaced. When I see this stately bird stepping around I feed the saying, "You are well groomed." The Plymouth Rock is a good winter work of the state of the second state with the second second second second work of the second second second second work of the second second second second solution of a young turke. The teget of the second second

## A Plea For Trap ting

A Plea For Traping The make a success, it is impera-must test their abilities. We can able to keep drones. We must test their abilities we can be able to keep drones. We must the substantiation of the substantiation test of the substantiation of the substantiation must be substantiation of the substantiation test of the substantiation of the substantiation of the substantiation test of the substantiation of the substantiation of the substantiation test of the substantiation of the substantiation of the substantiation test of the substantiation of the

lers to be "liars" So, prior to the adoption of trap-nests, the selection of layers has been more or less guess work is as aid by some writers that "spare analegist burds are the best layers." This eggs burds are the best layers. "This eggs burds are the best layers, the best layers, burds are the best layers, the best layers, that the Mediterranean class is built after that fashion.

An Authority Disproved

An Authority Disproved This view was coroborated by the late Francis A. Mortimer when he and that he found that hens with short least, chnnky bodies, short necks and small heads, are as a rule, indifferent layers. This would seem so from the standpoint that such hens are more of the meat order, but trap mests have told us that during the past of we weak, our chunkiest Wyandottes

nexts have told as that during the past few years our chuniset Wyandottes were in the front role layers. Felch and the pulling that to com-mence laying cartiest in time to be eggs through life. There is some ofer is that, but we cannot always tell our earliest if we have no system of trapping them. Bome years ago there was quite a



They Can't

Get Through

Peerless Poultry Fence is closely woven. It's a real protection to not only large fowls, but chicks as well.

They can't get through. Neither can harm get through to them. For Peerless **Poultry Fencing** 

I not mere pooltry netting -- i's seal incing. Every intersection of wises accuraly locked together. They can't slip or get loose. It is made of Open Hearth steel wire with all im-puties borned out and all the open filters in. Well galvanised, They and the in. Well galvanised, They and the intersection of the transmission of the steel of the heavy. No top or them than ordinary poolity facting.

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Single Comb White Legherna "Rouebeath Strain," of beauty and utility, hered to lay. Eggs, one-fifty per fifteen, if per hundred. Chicka, 316.00 per hundred. Per-tility and live chicks guaranteed.

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Buy Year Eggs Toy, Hershing orn the money-making kind c wared Rocks, White Wynadott and Ruf Laghorna. Our selects and the selects of the select reates and the select select select select reates and the select select select select select select reates and the select select select select select select reates and the select select select select select select select select reates and the select select select select select select select select reates and the select s

and antipaction guarantee legne free. ARCH GROVE POULTRY FARM ARCH GROVE POULTRY FARM Charles Watson. Londesboro, Ort.

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10-15-20 10-15-20 Years from now the Bia-sell Silo will be giving good sevice. It is built of selected timber, treat-ed with wood preserva-tives, that prevent decay, it has strong rigid walls, air-tight doors and hoops of beaux

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Your Eggs for Hatching



March 16, 19

Fire-proof, W Lightning-pro Orriamental.

THE name "Ea that only hig used. They lay all nail heads ary curely into val part of any roof. absolutely defies ing storms. Sho heolutely defies ng storms. Sno rearing and "bi rears 8 wood sh ost very little wrs economical

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March 16, 1916.

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## What are the dood points of the Eastlake Shingle?

Fire-proof, Weather-p. oof, Lightning-proof, Wear-proof, Orriamental.

Orramental. "Iff mans" "Zatilaks ' is a guarantee task only high quality material is und. Tooy is quickly, fit smgly, all nail basis are overed. Hook every my row. On characteristics of the courts of the second second second second courts of the second second second second reseting and "Backwateria" Out, ing storas. Smoothing. "Out of the second very High men, therefore has prove economical. "Eastly," Bhar-prove economical. "Eastly," Bhar-Back of the Number is and the State Back of the Number is and the Number is and

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## There's Money in Your =Maple Trees=

Get ready now to tap them in the spring. We will start you on the road to bigger profits by giv-ing you the benefit of our experi-ence and fullest particulars about the best equipment made-

#### The Champion Evaporator

This completely equipped evapor-ator will produce the highest quality of maple syrup and sogar, and de it faster, easier and cheaper than by any other means.

prices for pure maple pro-are higher—the supply is ex-ed and the demand is in-ng fast—so send for particu-

To the top of the highest silo

THE GILSON SILO FILLER is the one blower that can be successfully opened with an inte power as 4 hp. There is officer file fore for every persons -fer the distortion farmer, for the openicas, and we jays tencory consider for the

GILSON ENSULAGE very Gilson fills Filler to cast are antilago with the same

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Write To-day

"Mongrelism" any more than "thoroughbred" means "Stann Mfg. Co., Limited dard-bred"

more profit.

more profit. In conclusion, let me state, there is but one guarantee way of deter-mining our profitable layers, and that is by the all of trap nests, and no poultryman can afford to do without them. It will mean a profit in the crop, and a saving of feed, room and labor.

Original and Otherwise

"thoroughbred" means "Standard-bred".
The old way of carrying fowls by their legs, or by the wires, is not practiced by the present day p-altry-interaction of the body to rest on the arm of the body the arm of the body the arm of the arm of the body the arm of the body to rest on the arm of the body the arm of the arm of the body the arm of the arm of the body the arm of t

In Paris markers the ergs are dat-ed, and one pays according to the freshness, so that it is possible to be certain of newly-lair ergs; or, if it is necessary to be economical, yester-day's ergs, or the day's before, are offered at a reduction. "Avory table fow, though the flesh is dark.



FARM AND DAIRY.

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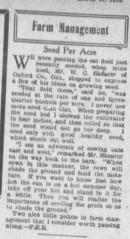




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-- March 16, 1916



## Crossing Breeds : Liming Soil

Crossing Breeds: Liming Jon D<sup>0</sup> your consider it good business to the construction of the construction of the construction of the construction with the construction of the c

chards-GC.J., Lambion Co., Onl. At is never good husiness to cross breeds, particularly treads that have developed "along directly opposito developed" along directly opposito developed" along directly opposito times, such as the Holstein and Hore-ford. The first cross might result in fairly good beef animals, but all of these should be fattened for the block the herd would double "half-breeds" to the herd would double "half-breeds" to the herd would double and the condict-lar tondencies in thero lines of hood would be more apt to result in a hord of aerubs, than in good dual purherd of scrubs, than in good dual purpose animals.

dime is applied to the soil for two dime is applied to the soil for two-reasons, the difference of the soil for two-floor of acidity or sourcess, and the improvement of lith. The second in-fluence exorted by line on the soil makes it of particular value on heavy other heaves, including them less sticky These excited by line on the soll makes it of particular value on heavy eary loss, rendering them less sticky and colums, rendering them less sticky and column, rendering them less sticky and column the second sticky and the frable and mellow when dry. Dr. Frank T. Status, and the second stick this action stic of Ottawa, explains that action stic of Ottawa, explains the source of the singer unlist. A proceed the otay of the segression or anthrowing together and the singer floceulation vasily minutes still im-porvious, and almost unlists of the less and almost unlists of the less and almost unlists for a ther, this floceulation makes for the still a second the still argue content of moleture availing and the second still and the still argue content of moleture available of the second still and the still argue to cultivate his clay sold earlier is the spring, for floceulation assists in most means. fasitat drainage, and thus will secure in most seasons, earlier seeding in increased yields. These effects of lime, and its compounds on elays, which may be summed up in the word mellowing, may be collisidered on a par with their power to neutralize acidity."

On almost any soff, applications of

#### March 16.

lime will les of clover ar tion if it wo soil for the corn, excep the mechan Whether or in the apple condition of the practice crops for a chances are sour, due to manure plow Red clover

alteration in will lead to more than o

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clover : an indu tural college to the plant the past. The clover coment the Ontario Mr. H. L. Fu the perusal of the conclusion perts are no more favor of crop than the

For hay n (melilotus of finer stems a leafage. The greater yielde adaptable. states the bu sweet clover a reminds his valuable feeds are not relish mais, but that eaten with m

On the coll yielded slight half tons an a haif tons an a alfalfa, first half tons; red tons, and time tons. In tota sweet clover So far the sh favor of the however, has where it can herable to swe clusions reach the Ontario A dicate qualities for sweet cloy farm crops of

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The smokeho ten feet high a the amount o smoked. Amp smoked. in order to primeat. Small eaves, or a chin be sufficient, if easily controlled

A fire-pot out per, with a flu smoke may be d chamber, gives for smoking. be arranged, a the floor of the tion should be smoke to pass up and out of the l

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reparing so that eep. I y seed,

Red clover is a biennial crop, and no alteration in the condition of the soil will lead to it producing crops for more than one season. A Sweet Clover Bulletin

March 16, 1916

## THE widespread interest in sweet

lime will lead to more vigorong drowth of elover and alfalfa, though we ques-tion if it would be of any value on your woll for the production of wheat or even, except involar as it improves the second second second second second whether any second second second second or of the second second second second promotion of the sell. If you do not the second second second second proper for a comber of years, the second second second will be somewhat out, due to the organic acids formed by the decomposition of the green share ployed ander. Lime yill nee-ture the second second second second share ployed ander. Lime yill nee-ture these acids. Bed clover acids.

THE widespread interest in sweet clover as a farm crop has been an inducement to our agricul-iural colleges to pay more attention to the plant than they have done in the past. The latest word on sweet clover comes in buildin form from the Ontario Agricultural College. Mr. H. L. Fulmer is the author, and the perusal of his builden leads us to the conclusion that the college ex-perts are now inclined to look with more favor on sweet clover as a farm crop than they have in the past. crop than they have in the past.

crop thank hey have in the past. For hay making, Mr. Pulmer re-commands the yellow waved clover fmellicum officialish because of its management of the production of its the more viscous vy, how tr, is the more viscous vy, how tr, is the more viscous more widely adaptable. "All docressie animals," states the builetin, "thrive well on sweet clover after they have once ac-quired a taste for it." The author reminds his readers also that such valuable feeds as afalfat and ensinger are tribuiled as the such valuable feeds as a falfat and ensinger are tot relished at first by most ani-mals, but that after a jum they are eaten with much relish.

cates with much relish. On the college farm, sweet clover yielded alightly over four and one-half tons an acre at the first cuting; alfaffa, first cuting, two and one-half tons; red clover and a laike, two tons, and timothy, four and a quarter tons. In total proting per acre, the aveet clover yield's 1,220 lbs, and So far the showing is altogether in favor of the sweet clover. Alfalfa, however, has other advantages that; So are the anowing is alongener in favor of the sweet clover. Alfalfa, however, has other advantages that, where it can be grown, make it pre-ferable to sweet clover, but the con-clusions reached in Bulletin 235 of the Ontario Agricultural College, indicate qualities which should assure for sweet clover a place among the farm crops of Ontario and Canada.

## The Smokehouse Andrew Boss.

The smokebouse should be eight or ten feet high and of a size suited to the amount of meat likely to be smoked. Ample ventilation should be provided to carry off the warm air, in order to prevent overheating the meat. Small openings under the eaves, or a chimney in the roof, will be sufficient, if so arranged as to be easily controlled.

A fire-pot outside of the house pro-per, with a flue through which the smoke may be conducted to the meat moke may be conducted to the meat chamber, gives the best conditions for smoking. When this cannot well be arranged, a fire may be built on the floor of the house. The construc-tion should be such as to allow the smoke to pass up freely over the meat and out of the house.

Brick or stone houses are best though the first cost is greater than if they are built of lumber.



FARM AND DAIRY.

Seed and Fertilize at the Same time with our newest drills

## Superior construction guarantees rapid, easy, correct seeding

The heavy sales of Cockshutt Dics Drills show the up-to-date farmer realizes that only the best is good enough for such an important work as seeding. A Disc Drill mush have a big margin of strength and reliability so as not to "fall down" at a critical time. Be wise: get a Cockshutt

Of strength and reliability no as not to "fail dow Beeding time may be short and horses screets is othe Cockshutt Disc Drill is built strong, but it is built for aneed. Its light draft makes for rapid work in any kind of soil, wough or well tilled, hilly or level. The disces are non-clouge in the discs-they "draw way" from the shipes. The heavy, high-action 1 beam-the from the shipes. The heavy, high-action 1 beam-the field preventing the slightest momentaly strong and rigid, preventing the slightest momental strong and rigid preventing the sl

Cockshutt Standard Drills are built in 12, 13 and 18 Disc sizes with 6-inch spacing, and in 11 and 13 sizes fitted with either single discs or hoes, with 7-inch spac-ing.

ing. Cockshutt Grain and Pertilizer Orilla. Drill fertilizer into tranch with zero. Accurate work, durability and light draft are three dominant Cockshutt qualities in this splendid implement for bringing your land lack to virgin fertility in a systematic, positive

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## FARM AND DAIRY

(12)

AND RURAL HOME PUBLISHED EVERY THURSDAY

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### OUR GUARANTEE

OUR CUARANTEE We do not see that every subscriber in this issue that the second se

The Rural Publishing Company, Ltd. PETERBORO, ONT.

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

## Dairy Cattle at the C.E.F.

FEW years ago the secretary of a leading 'Canadian dairy cattle breeders' association referred in a disparaging manner to the dairy cattle at the Central Experimental Farm, Ottawa. The remarks then made seem to have "made a dent" in the minds of many stock men, and the impression is still prevalent that the cattle at Ottawa are poor advertisements for the breeds they represent. At one time the dairy herd at Ottawa may have merited the criticism made. At the present time, however, the C. E. F. is the home of one of the finest herds of pure-bred dairy cattle in Canada, and Farm and Dairy desires to correct a false impression to the contrary that has gotten abroad.

Recently an editor of Farm and Dairy inspected the herd at Ottawa. Among the Holsteins we found such notable cows as the grand champion female at the Canadian National last fall, the grand champion at the Ottawa Fall Fair, a threequarter sister of May Echo Sylvia that in her first lactation period has milked 60 pounds of milk a day for five months, another helfer of excellent. quality that has been making 76 pounds of milk a day at two milkings, a two-year-old heifer out of the dam of Lulu Keyes and others equally well These Holstein cattle would compare bred. favorably with those in any other stable in Canada

The Ayrshires are of the kind that combine splendid type along with producing ability. Ottawa Kate, for instance, one of the good individuals, has produced 9,600 pounds of milk in six months. Among the Jerseys we found one pair of cows that made close to 500 pounds of fat and calved within the year. Next to them stood other cows making from 360 to 400 pounds of butter fat in their helfer form. One senior threeyear-old Jersey has made 596 pounds of fat, a four-year-old 514 pounds, and all of the milking Jerseys at the farm run from 8,000 to 10,000

pounds of milk a year. The French-Canadian representation is also of high quality; one cow has made 9,700 pounds of milk and another 9,000. Mr. E. S. Archibald, Dominion Animal Husbandman, in whose charge these cattle are, deserves credit for the steady improvement of the herd since he assumed its management. If the truth were known, however, the herd at Ottawa has never been as poor a one as many have been led to believe.

## Good Roads Brought Down to Earth CUBSTANTIAL progress was made in the so-

3 lution of Ontario's good roads problem in the week ending February 26. During that week the annual Good Roads Convention was held in Toronto. The reason for the progress. made was that the discussion was not, as heretofore, left to engineers and road experts, whose business it is to build roads in the clouds, but to farmers, whose duty it will be to build, them on the earth and pay for them. Representative men from most of the countles of the Province were present and dominated the proceedings with the result that instead of technical discussions of road making, interspersed with over-estimates of benefits and under-estimates of cost, there was a practical discussion of the facts of the case and a revelation of the attitude of farmer, to the problem, together with explanations of the cause of their attitude. In consequence the atmosphere was considerably clarified.

One of the things emphasized at the convention was that a million dollar flasco like the Toronto-Hamilton speedway, while doubtless facilitating the progress of city joy-riders on their pleasure trips, will do nothing but retard the progress of the good roads movement. As Warden McDowell, of Norfolk, aptly said, the reckless work of the Gooderham Commission has given a black eye to the movement in Ontario. This road was built for demonstration purposes; nor has it, we believe, failed of its purpose. As a demonstration of how not to go about the business it is a glowing success.

## Educational Work Needed

HAT a great deal of educational work is needed to impress the benefits of the improvements

of our highways before people generally will make the enormous outlays necessary for such improvement was realized and emphasized by the delegates. The number of wealthy counties that have failed to respond to the appeals of good roads enthusiasts is evidence of this. As one speaker pointed out, however, some of the enthusiasts themselves stand in need of considerable enlightenment, especially regarding the probable cost of the schemes that they advocate. Perhaps the slowness of the taxpayers in plunging blindly into the building of costly roads has saved them the mortification of finding out at a later date that their apparently adequate appropriations were altogether insufficient, and also that the general plan of road construction was not the best suited to their needs.

The first consideration in building highways costing thousands of dollars per mile should be to assist the farmers in getting to and from their markets. It will be time enough to consider the wishes of city joy-riders when sufficient good ros is have been built for that purpose. One essential in any campaign of education among farmers concerning this matter is to impress them with the fact that there are powerful interests opposed to them in this regard, and that the millionaire members of automobile clubs have much easier access to the ear of the Government than they have. Good roads pay, they are as good an investment as a farming community can make, but the only way they can be made to pay is in decreasing the time it takes the farmer to reach his market, and

increasing the size of the load that his team can draw to it.

## The Road to Success

NE of Our Folks who is making a real success as a only farmer is Mr. Wm. Pollock, of Hastings Co., Ont. Recently Mr. Pollock answered a series of questions concerning his farming methods, sent out by the district

representative in his county. To the document he added these remarks, which go far to explain bis success as a dairyman:

"By breeding better, keeping records, culling "out, rrising my own cows, feeding a little "better, our returns from same number of "cows have grown from \$800 in 1908 to \$1,726 "in 1915. Every dalryman should use a pure-"bred sire, and the best he can afford. Three "years ago I milked 12 heifers, two years old "at freshening, eight sized by pure-bred sizes "and four by a mongrel, but from as good "cows as we had in Plum Grove Factory. "The eight all proved good but one, but the "other four were only boarders, and I ruled "them out in the first year. With ordinary "conditions, the mature cow that won't give "me 9,000 lbs. milk in 10 months must go "elsewhere."

It is the same old story-good breeding, feeding and weeding, combined, of course, with good business management of both the farm and herd. If there is any other road to success in dairying we have yet to hear of it.

## This Season's Burdens

W<sup>1TH</sup> their already inadequate numbers still further depleted by further depleted by rural enlistment, the farmers of Canada are face to face with the hardest season's work in their experience. It takes no prophet to foretell that this summer farming will be a daylight till dark proposition. More than that, it is probable that on most farms, calves will be fed and cows milked

"By the struggling moonbeams' misty light, And the lantern dimly burning."

If we judge the temper of the farmer aright, he will rise to the occasion. But there is a limit to what the farmer can do, and that limit was too nearly reached before the outbreak of hostilities. Last year he produced the greatest crop in the history of Canadian agriculture, but the fact must not be lost sight of that the large yields of last year were largely due to favorable weather conditions, which are outside 'is control. In spite of the large crop, food prices in Great Britain have increased forty-seven per cent, since the commencement of the war. It cannot be expected that this year will see a duplication of last year's heavy yields, and there is great danger that the consumer in the Old Land will find the pinch of higher prices even keener still.

As we have emphasized in past issues of Farm and Dairy, great care must be taken not to leave too great a burden on the shoulders of the Canadian farmer. If the situation is left in the hands of the recruiting sergean's, whose only ambition is to fill up their battalions, and the farmer finds it impossible to meet the burden of producing an adequate supply of food-stuffs, the responsibility will rest, not with him, but with those who instituted the policy by which he has been left with inadequate assistance to bear that burden.

Every one is anxious to be relieved of work and responsibility during the hot weather of summer. It is a great relief if you know you can take up your farm paper, and without stopping to investigate a concern advertising therein, you can feel sure that you will be treated right. Farm and Dairy protects its readers in the terms of its Protective Policy published on the editorial page.

BECAM John Ar cause I r into the cou all attention machine and If you have ance getting ways taking will not stan with a bicyc take in all landscape, a world to sta the fence an for a chat, wheeling ex last May, wh Tillsonburg, with two bi and a farm eral look of mail box to home of Mr. the propriet

chen. Mr. Ander one of the county. It practically a At the time being milked cows sunnly condensory, grain and h 20 acres of o a sufficient ;

# A Cat

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## A Typical Oxford County Farm

BECAME acquainted with Mr. John Anderson, principally be-cause I ride a bicycle on my trips into the country. If you drive a car, all attention must be given to the machine and the road in front of it, If you have a livery rig, it is a nuis If you have a livery rig; it is a nuis-ance getting out to open gates, al-ways taking a chance that the horse will not stand while a gate is being opened and then closed again. But with a bicycle og good roads, you can take in all points of interest on the landscape, and it is no trouble in the world to stand the wheel up against the fence and stroll into a farmyard for a chat. It was on one of these wheeling expeditions. on a fine day for a chat. It was on one of these wheeling expeditions, on a fine day last May, when some three miles from Tillsonburg. I noticed a big red harm with two big silos at the end of its and a farm steading that had a gen-eral look of prospective. The rural mail box told me that this was the home of Mr. John Anderson. I found the proprietor himself, with the help of his son, remodelling the back kit-chen.

Mr. Anderson's farm I found to be Mr. Anderson's farm I found to be one of the larger farms of Oxford county. It consisted of 138 acres, practically all of it under the plow. At the lime of my visit 18 conse were being milked, but generally 20 to 35 cows supply milk to the Tillsonbury-condexsory. In addition to the milk, "rain and hay are sold. Sixteen to 20 acres of corn are grown, this being 20 acres of corn are grown, this being a sufficient acreage to more than fill

the two pilos, 128% fort. I remarked on the large silo capacity. "We feed ensilage the year round," Mr. Anderson told me. "In addition to the ensilage, we feed cyzin the year round, We buy shorts and bran to mis with our home-grown oat and barley chop. Our cows average us at least \$100 each at the condensory, and you have to feed well to get re-turns such as this. My cows are all high-grade Holsteins.

Pigs were at one time an important source of income on the Anderson farm, but since they have started shipping milk to the condensory, fewer hogs have been grown.

fewer hops have been errown. Mr. Anderson has been on his pre-sent farm only a few years. He made his first start on a good 160-acre farm in the same county, Oxford, and when his oldest boy grew up and got mar-ried, he gave him the home farm. Still hale and hearty, the old gentle-man is now making another start for himself with his second oldest son as his richt hand man. Perhaps some humself with his second oldest son as his right hand man. Perhaps some day this boy, too, will be wanting to make a start for himself, and then we presume that, having bought and paid for two farms. Mr. Anderson will be quite content to really retire from active work, or at least from anything so strenuous as the manage-ment of an Oxford county dairy farm.

#### Farming a Village Lot

Mrs. P. J. B., Pontiac Co., Que.

A Catalogue Library

Down in a drawer of my desk-and within nice see print of my chair, have two neat little print of my chair, not books of the style you are thinking of-they are catalogues. My friends neat little pile of endy it keep such a neat little pile of endy it keep such a use of them. They are some of my ref-erence books.

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WE always keep a cow and find we can sell between three and We can sell between three and four pounds of butter weekly after keeping what we need. We never stint ourselves for good fresh milk, cream or butter. Pasture for the cow costs \$3 for the season. Two never sint ourserves for rood fresh milk, cream or butter. Pasture for the cow costs \$3 for the season. Two tons of hay and 300 pounds of bran and ground grains brought her through last winter. The calf sells for 85

The skim-milk and butter-milk help out the sption of a nice growing pig or two. These are fed on shorts, with sometimes bran or whole grain, but we find barley, either boiled or whole and the fed innately, pay best on belo out their grain frain, and on an average we are always able to have pigs of between 180 and 200 pounds at a cash expenditure of about 800 each for fed. That a general price of 184' or 18 cents leaves us a net gain of between 180 and \$12 each. Many people shink it does not pay to keep nics and bay fed for them, but we think we have solved the questiony of mat at a reasonable price the year round for we generally kill two pigs other in the spring. The skim-milk and butter-milk help

Last year we decided to try poultry and started out by sending \$5 to a breeder for a pair of Black Minorcas. We asked for one-year-olds but re-ceived a cockerel and a three-year-old Wily breeders do not help along hen. Wily breeders do not help along their business by such methods. The experiment with pure-breeds proved a failure, and we had to be content with an early hatch of mondescripts and half-breeds. However, we were able through sale of chickens, old hens, and eggs to come out with a clear balance on the right side of \$4.84, and we have still 10 in our flock. Our script, hear us in rabhase

and we have still 10 in our flock. Our garden kept us in cabbase, carrots, onions and other vegetables all summer and winter, and we sold about \$5 worth besides. The product of our garden and of our cows, pirs and chickens belos us very materially in providing for our table and in rais-ing a family of small children under village conditions.

# Decide now to have this silo -It will pay you

Y<sup>OU</sup> cannot make a better paying investment. If you doubt this, ask any man who is using an Ideal Green Feed Silo.

Good silage reduces feeding cast 15 to 20 percent. It increases milk flow 20 per cent. Beef cattle and sheep thrive on it better than on any other feed.

ancep unive out to better than on any other recen-Having silage to feed is like having rich summer pastures all through the winter. If you had had an ideal Green Feed Silo this winter you would have saved enough money to pay for the silo before spring.

Now is the time to plan for a silo for mestion server spring. In selecting a silo, remember that it is GOOD silage that. most profitable to feed and that GOOD silage can c ity be produced in a GOOD silo.

Manager and Martin MADE IN CANADA

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CALF-MEAL

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MANTED -

A HET WERTEN

A "cheap" silo and good silage do not go together

A "cneap" sio and good singe do not go together Something that is claimed to be "just as good" at a lower price is never as good. A "cheap" sio is bound to be an inferior sio and it cannot pro-duce good single. A "cheap" silo or a silo you erect from "cheap" material will prove the most costly you can buy.

The few dollars you might save on the first cost by buying such a silo will be lost many times over in the poor quality of the silage, the trouble and expense you will be put to in keeping the silo in repair and in its short life.

abort life. An "Ideal" costs nothing because it pays for itself An Ideal Green Feed Silowill pay for itself in one year and will last from 15 to 20 years. It will preserve your silage perfectly. It is the mest profit-able to own because it returns the biggestprofit on the mest profit-able to own because it of the one of the silowill be and the silowill able to own because it returns the biggestprofit on the mest proto invest in it. Do not take a chance. Do not by any any islu until you get all the facta that prove that you get more for your money in the "ideal" than in any other. It costs nothing to get this information and doing as will be the means of insuring silo satisfaction for you and will save you many dollars.

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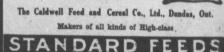
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THERE are many successful short cuts in work and living. but none in character building. 500 800 800 Where the White Nun Walks

BY E. EVERETT GREEN

was the tradition at Whiteladies I T was the tradition at Whiteladies that not only all the daughters but that all the granddaughters should be married from there. It was a pretty family custom, which

(14)

258

It evans prefty family customs which must have entailed a good deal of trouble and cost upon our delightrui, pictureaque, which-hadded grandpar-ents, whom we all adored; but it was the tradition of the house, passed down from severation to generation, actual severation and the severation and the family sathering, which be-ing generation grows gives of the ris-ing generation grows gives of the ris-ing generation grows about the generation grows and the severation great happiness to those who took part in them; and a family wedding was a more intimate and interesting was a more intimate and interesting event in our family, by consequence than it generally is in these hurry-scurry days of the twentieth century.

Somehow when you reached the long beech avenue which led up to Whiteladies, and passed through the wrought iron sates, set in the high stone wall which encircled house and wrougst iron gates, set in use mass stone wall which encircle house and gardens and a portion of the park, you seemed to leave the twentjeth century behind, and almost expected to see cavaliers with love-locks prom-enading the green glades and wide stone terraces, with graceful stately ladies on their arms-powder on their make, patches on their faces, their hast, patches on their faces, their hear patches and trailing brocades the old stone wall. The house was all mullioned win-dows, oriels and unexpected corners and angles. It was very big achieved you by its size or grandeur. It was

hiten ground, yet never overwheinied you by its size or grandeur. It was like the grandparents themselves— beautiful, stately, mellow, bénignant. There was a hush about it which There was a bush about it which awoke to sweet sounds-the laughter of happy children, the gay calls of girlian voices, the beat of flying feet to he dances in the long ball-room, the lik of music awakened not by birder professionals but by the skilled fingers of the daughters of the house or their children.

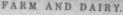
Inters of the daugneers of the noise or their children. The blare of the motor hern was seldom heard here. The reek of its breath seemed descentation to the sweet fragrance which hung over

"Isn": it delicious to be here again ?" "Inn" it delicious to be nere again: cried one to the other, as we darced up and down the long corridors and ran to grandmother with a hundred little confidences and a thousand trylittle confidences and a thousand try-laid questions, always welcomed, al-ways kindly considered. Grandmother was one of those beautiful persons who was never an a hurry, who always lid down hor hook or her peh to give you her full attention, who always litened to what you had to say. Her function and the say her function of the say here and the fashion never, registre and by transfor-mations and "smap."

It was Esther who was to be mar-ited this time, and she had asked me to be one of the bridesmalds, and I had promised I would, though now I

ETT GREEN was getting well chaffed for it. "Three times a bridesmaid, myver a bride!" they chanted h my cars; but i did not care. Esther was my favor-ite cousin, and she was going away to. a brillant life led in foreign oourts, and tveryhody said that her husband would be an ambassador in time. She was making a rather brilliant mar-tice, and we were all proud of her mais were how yer. I for the brides-maids were yed ighthul to us all, and hay wedre in the solids. Bail, and hay we were all a charming vedding. The going to be a charming vedding. The going to be a charming redding. The solid brides-edit of us girl cousiant with the edit of the time to the solid brides-dressed as the mintes were in the days of the Stuarts. You wanted to pick of the Stuarts. You wanted to pick them up and kiss them, they were so bonny!

Then the dressmakers had all been Then the dressmakers had all been true to time, and nobody was worried or flurried; and the only person yet to arrive was a cortain "Tony Tal-bot," who was a to be the best man to Eutace on the erentful day. He had some ergagements to keep which would prevent his coming till just the would yreven this coming till just the would and he day: and he was to bring write the day: and he was to bring write the case of family jewels, but which were being re-set for Eather, but which were to take away with her on departure.



When the weddings at Whitelan'es place, the dower-house in the was allotted to the bridegroom park park was allotted to the bridegroom and his immediate supporters. Prac-lically they belonged to the house party, but the convention of their occupying a different abode was thus observed.

observed. And now the eve of the wedding-day had come. We had decorated the church, we had made the bride's bou-quet and our own with the help of the head gardener. Bought flowers were tabooed at Whiteladies, and how much more fragrant and delicious were the more fragment and delicious were the strendril nonseays made and designed by loying hands, and interwoven, as i, wers, by fond wishes and bright hopes! The house was full from end to end, the choes seemed all awake and astir. If had been hard to get the children to bed. Yet there was no confusion or indue hurry perceptible. Dinare was served with all the quiet, simple ceremony which belonged to the house, and at the long table only **OB** empty place indicated the non-arrival of theororow's heat man

The may be late; but he will be here. I take the set of jeweller who has run things a bit close. But Tony will be here some time to hight. You can always trust close, but they will do not straight you can always trust him when he says a thing. I'm sorry, though, that he could not come before to make your acquaintance. He is a nice fellow. You would have liked

It was a warm, still, autumn night when we girls-we bridesmalds-ad-journed by common consent out upon noonlight made wavering lights and shadows, and squares of light from moonight made wavering lights and shadows, and squares of light from open windows lay yellow on the grey flags. We were laughing together over matters past, present and future, when

matters past, present and future, when somebody exclaimed: "Anybody going to look for the White Nun to-hight?" Now there was a legend at White-ladies concerning a certain long stanseroom walk about a quarter of numed change score, and near to the ruined change score, and near to the ruined chapel which marked the site of an old monastic foundation. Prob-ably the present house had been built up out of the material of the ancient up out of the material of the ancient nunnery which had been swept away by Henry's Cromwell. Jud, of course, there were traditions of ghostly hap-penings in and about the place, though

March 16, 1916.

these were not very definite or well authenticated. But the tradition of a White Nun, who walked to and fro in the grass-grown avenue beneath the the grass-grown avenue beneath the pew trees, was firmly believed through the country-side; and it was always whispered that the most likely time to see this ghostly visitor was upon to seve of asome firmly "happening"--where the occasion might be a birth, or a death or a matriage.

So it had become amongst the girls So is had become amongst the girls of the house something of a point of honor for one of their number (you must not go in couples--the Nun had never been seen except by a solitary watcher) to go forth alone in the dark



Sturdy Boys Who Would Like to be Farmers.

The de to the standing and the hoty standing the theory as the standing and the hoty standing the standing of the standing of

to the place where the White Nun walked, and give her a chance of show-ing herself, and the watcher a chance to cover herself with glory by having seen her.

Truth to tell, these vigils had not been very successful. Once Ada had come tearing back as white as a ghost, declaring that the Nun was sitting on a stone and moaning. But atting on a stone and momaning. But alas: -inquiry and investigation prov-ed the Nun to be nothing more roman-lic than a dun-colored Jernsy cow who had been unwell, and, isolates from the hord, had escaped into the grounds and was very sorry for herself on Hor counts!

many counts! However, it so happened that Ada married within the year. And Ellen, who went shoetseeking as ther mar-riage, was a bride some fitteen months later. It had been Esticer who had later. It had been Esticer who had use strong that whoever be tradition was growing that whoever be tradition was growing that whoever be tradition fore very long. fore very long.

"Then Maude shall go!" cried Ju dith's merry volce. "Look here, you others, it's quite time our dear Maude cried Judiars infri quite time our dear Maude diars, it's quite time our dear Maude dia something to distinguish herself herdesines she's going to dare to be a bard since she's going to dare to be time she and the she and proper that time, it's only reign to the she's in abe should take the antic proper that her her and take the antic proper that her her and the she she and drops her microses alout broadcast! Any-how, we'll send Maude! I bet she's in a mortal funk! I was going to volum-teer for the service, but 'll wait for my chance on the eve of her wedding. Who'll bet that it will be within a year from any "for VOI

(Continued next week.)



Officers of the Dominion Grange.

Contests of the Userminion Grange. During the time when the Dominion Grange held its annual meeting recently, a photograph of the officers was used by the short fan is taken. Reading from left to right the short Rt. Thomas, Pomona; Miss D. Putcher, Middlemarch. Second relation Morrelaid, Morrelaid, Market Reading, S. Thomas (the live w the Grange), Third reads the Reading of States of the State the Grange, T. A. Carswell, Palmeretime, Gorrie, Gatakoeper, One Game of Market, Palmeretime, States Bergell, S. Thomas (the live w the Grange), Third reads (L. Palmeretime, Gorrie, Gatakoeper, One Game of Market, Palmeretime, States Bergell, S. Past Master, and W. E. Leeson, Aylmer, Awstatan Steward).

Th you i 34: 33 Uho Je was are mad life hanton c ar), this or believ hrist m ou for t to repre-

March

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in hal israel to givon ev which, is fruit bro by he fo of the gi given un mation fore judg In Mett. 30: 9 to parable. whom phecies By the s Manth that the sees' know represent parmitie ( 18; 6 to 6 the obje warning. vorse Ob years (th to that t yard had Christ of their pro rejected claims to ected by (the spiri the temp cursed th This was of the Je Isaiah 5: foretall ti the featur the end o His secon read how and aske signs of th the signs tree (ver

disciples the people dispersed Jarunalem and many phedes) by Christ as though All Ohris study the meanings WIN the

T HOHE af Cl world Lag better, again He rummer 11 Id sermon (Matt. 13: represented represented parable me world would this contra

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## Light on Scriptural Prophecy

## The Fig Tree and Israel

A last week's issue of beam and have N has week's issue of beam and have N has week's issue of beam and have N have and that the fig tree of Mail. Service and claimed that because the public device and claimed that because the tomat ike and and the moving agins of ma-cession of Jerusakan (after the prosent war), that is sue of the strongest reason for believing that the second coming of you for believing. What the fig tree represents the Java?

in Isalah 5, verses 1 to 7, the pro-phat Isalah likened the children of photi Isalah likonod the chuntren or Israel to a vinoyard which had been givan every advantage and care, but which, instead of bringing forth good fault brought forth which grapes. There-by he foretoold that the Jews, in spite of the areas invalidous and blostings by as forecast limit the Jews, in spite of the great revelations and blessings given unto them by God, would fail as a mation to Hye righteously, and therea mation to live rightsounaly, and thore-fore judgment was to come upon them. In Must. 21: 33 to 46, and in Lake 50: 9 to 15, Christ, by means of a parable, reminded the Jows, all of whom were familiar with the pro-phecies of lasish, of that prophecy. In whos no, Christ means liberations By the son, Christ meant Himself. In Matthew's account (verse 45) we see Mathew's account (verse 45) we see that the chief priests and the Phari-see's know that Christ meant that they represented the wicked servants. The paratise of the barron fig tree (Lake 13; 6 to 9) was given to the Jews with the object of conveying the same warning. Note how in the servant verse Christ mentions that for investi-tions. years (the extent of His ministry up years (the extent of this ministry up to that time) the owner of the vinc-yard had been looking for fruit. Christ offered Himself to the Jows as their promised Messiah and King. In Cherr bindness and wickedness they rejected Him. Finally, after His claims to be the Messiah had been ro-spected by the chief priests and arrives the mixtual landows of the Inversion percent by the chief priority and scribes (the spiritual leaders of the Jews) in the temple (Matt. 21: 13 to 17) He curred the fig tree (Matt. 21: 18-20). This was symbolical of the casting off of the Jews temporally, as foreidd in Issiah 5: 6 to 7. Chieft then teepin to formatal the description of the destination foretall the destruction of Jerusalem, the features which would characterize Torteal the destruction of Jerusalem, the Basknew which would characterize the and of the are, and to speak of Ills second county. In Bake 24:3, we read how file disciples approached attrastic the second second second second the second adverse to be the second adverse like methods at the tree (verses 31 and 20). By this file disciples and second second second second adverse like increasing of the specific of lineal, who verse to be disposed adverse that file referred to Jerusalem (note Basish 11: 16 to 13, and many other Old Treatment pro-phedeos). The curving of the fit res by Christ advarys troubled me until 1 understood its meaning, as it seemed as flowed for its in ad acid in anger. All Offrist's acids we find, wondertal meanings of this character.

Will the World Be Christianized?

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## FARM AND DAIRY.

good and evil on the earth, that the good will be preserved and the evil desiroyed. We should remember that destroyed. We should remamber that Ohrist was speaking to the Jews, who Christ was speaking to the Jews, who were commanded never to use leaven in any of their feasts. Their laws re-guired that they might even be put to death for using leaven under carind circumstances. Thrus, when Christ apoke of leaven to them they immediately thought of it as some-hing evil, not good. This they were justified in doing, because Christ Himjustmed in doing, peccuse christ Him-self always spoke of leaven in an evil sense. (Note Matt 16: 6 to 1 and Mark 5: 16, also 1 Cor. 6: 6 to 3.) Note also that the meal represented the flour or wheat, which always stands in Scriptures for what is good. (Matt. 13: 29 to 30.) Christ, there fore, would not speak of mixing some Christ, therething that was good with something that was good in order to make what was evil good. Dr. Scofield, D.D., in his references to the BBle, summar-iese this point as follows: "The para-ble constitutes a warning that the true doctrine, given for the ourish-ment of the children of the king-dom (Matt, 4: 4; 1 Tim, 4: 6; 1 Peter 2: 3) would be mingled with corrupt and corrupting false doctrine, and that officially, by the apostate church itself (1 Tim. 4: 13; 2 Tim. 2: 17-18; 4: 3 to 4; 2 Peter 2: 1 to 3). It is generally realized that many false dootrines are being tanght to day.

## The Two Views Explained.

108 two views Explaints.
W HERE can 1 source a good hook setting forth the different interpreta-ting forth the different interpreta-butions of the Scripture, as given by the source of the infinited," by Lr. C. T. Haldmand, page the for the source of the so

mineau, by Lr. C. T. Haldmand, pas-tor for the past 25 years of the First Baptist Church, New York. It may be obtained through the Book Depart-ment of Farm and Dairy for \$1.00 with ten cents added for postage. This book gives a striking summarization of Scotteren examination of Scripture passages, and has had a wide sale.

Yours of recent date reminding me that my subscription to Farm and Dairy bas expired, received. It certainly do not intend to discon-tinue taking your paper. I like Farm and Dairy too well for that. Being a dairy farmer and a Holstein breed-er, your paper appeals to me very strongly--Dohn C. Chisholm, Lower South River, Antigonish Co., N.S.

## Assured or Insured--Which?

(15)

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Chould we say life assurance or life insurance? Many insurance (or assurance) people have wrangled over this.

It depends upon whether you wish to refer to the policy older or the beneficiary. The policyholder is assured, the beneficiary is insured.

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FARM AND DAIRY.

## **A Little Investment in Cow Happiness will Pay Big Dividends**

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## The Dillon Book on **Stalls and Stanchions**

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## Selecting Styles and Materials Wisely

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1521-Boy's Suit. We must not forget

HE na sudde fir gei clean is to sight as should be There is no dishonest in pleasant to as possible.

March I

Applying the housew agly furnit means in he obliged to g are two wa be ugly, in oak is a go which is up the more u is conspicu line.

Fitting th

Now the wall color sider carefu ture that is should not piece of fur is a contras becomes an as much as it is a disa gainly shape ment, while color and worthy orna ant thing to durniture is itself to des it is without unattractive circumstance the room in of the furnit will seem to main color standing fer when it is c to do so pla pleces of fur of the sunlis things in the

Let us sup er of Farm published highly polish for the dining object in furr the defects of as much as i this a medius chosen for prown but

The floor s oak and wax

March 16, 1916.



## A Compromise in Furnishing

HE natural instinct when one THE natural instinct when one writes that and nas stained her noor suddenly discovers that one's by applying a mixture of two ounces firrer nails are not perfectly of permanganate of potash in a bucket clean is to keep the hands out of of building water, but in order to avoid sight as much as possible. So it should be with all forms of agliness. There is nothing either decaitful or dishonest in making that which is unpleasant to look at as inconspicuous as possible.

Applying this rule to furnishings the housewife who has fallen heir to ugly furniture should use every means in her power to make it as in every conspicuous as possible, if she is obliged to go on living with it. There are two ways is, which furniture may be ugly, in color and in shape. Golden oak is a good example of furniture which is unpleasant in color, while which is unpleasant in color, while the more unwieldy mission furniture is conspicuously lacking in grace of line.

## Fitting the Color to the Furniture.

Now the housewife in choosing the wall color for her room should consider carefully whether she has furni-ture that is beautiful in itself, for it should not be forgotten that every piece of furniture in the room, which is a contrasting color from the wall, becomes an article of ornament, just as much as a vase or a picture. If it is a disagreeable color or an un-It is a disagreeable color or an une-gainly shape it makes an ugly orns-ment, while if it is beautiful in both color and shape it becomes a very worthy ornament indeed. The import-ant thing to decide is whether one's dumiture is sufficiently beautiful in park to destreamed urrominance. If itself to deserve such prominence. If it is without cifarm or is positively unaltractive then it is wiser, other circumstances permitting, to decorate the room in a color as nearly like that of the furniture as possible, when it will seem to become a part of the main color scheme and not an outstanding feature of the room. And when it is convenient and reasonable to do so place the most beautiful pleces of furniture in the direct path of the sunlight and the less lovely things in the shadow.

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Let us suppose, then, that the builder of Farm and Dairy House No. 4, published two weeks ago, has highly polished golden oak furnitare for the dining and living rooms. The object in furnishing will be to conceal the defect of the set object in furtherman will be by concern the defects of the coloring of this wood as much as possible. In order to do this a medium brown color should be chosen for the walls, not a grey brown but a warm pinkdsh yellow

The floor should be stained a light A charming suggestion for making oak and waxed. One of our readers the porch ato a living room will be

writes that she has stained her floor getting too deep a colof it would be advisable to add the potash a little at advisible to add the points a fittle at a time and try it on a piece of the flooring, which is sure to be lying around somewhere in the scrap heap after the building of a new house. When a brown color just a shade deep-When a brown color just a shade deep er than the wall is obtained apply it to the floor with a brush and wax tharoughly before walking over it. Over this the house builder may spread home-made punched rugs of ended a rich spiden brown and rags dyed a rich golden brown and having a small conventional border in old blue or soft rose. Be careful to avoid using any black in these rugs it makes a very ugly combination with dark brown.

The housewife will do well, at the outset, to buy a bolt of dainty cream scrim and make all the inside curtains throughout the house of it, this being much the most economical way of buying curtain materials. If the purse permits she will find the living rooms can be made much more beautiful by the addition of over-curtains of cre-tonne or madras in combinations of of green and rose or green and metallic If # blue.

In the making of curtains it is well to make a pretty heading at the top of the first curtain and then slip it on the first curtain and then sup it over the wire or pole in order to get exactly the right length. Then turn it up at the bottom, allowing a deep been and leaving it long enough so that it just a little more than touches the window sill, hanging straight down. it will probably be found when the curtain is finished that in me mysterious way it has shrunk a little and just touches the sill.

Over-curtains are most pleasing when finished with a valance across the top. This is usually mide by cut-ting a strip of the material in two lengthwise and sewing the ends to-gether. The cut edge is then finished with a heading for running over the wire or rod. Sometimes this valance runs right across the window on a separate rod, but it is often put on

soparate rod, nut it is otten put on the same rod as the over-curtains, running between the two curtains. As the fifchen and the two halls are not too well lighted they should be linted a preity mellow buff color, while the bedrooms may be thread the same shade of a matted gree receive same shade or a restful grey green, as the owner feels disposed. All the woodwork upstairs should be finished in white or cream enamel.

and in the illustration on this page. found in the illustration on this page. While this porch has a very elegant appearance it is really due largely to the bit of lattice work at one end and the beautiful plants. The furniture itself is very moderately priced and the floor is covered with braided rag mats, in the making of which many country women are experts.

## Mother's Saving Ways

Mrs. T. Murray, Elgin Co., Ont.

Wra. r. murray, some own pecu-liar ideas along the line of sav-ing. Along with her desire to save, the spirit of self-sacrifice is insurant, and in many cases this save, the spirit of self-sacrince is dominant, and in many cases this self-sacrificing nature is apt to occupy such a large place in a mother's make-up that she does herself harm in her anxiety to do the best possible for the family.

A saving way that many -mothers A saving way that many -mothers, have is along the line of their own personal wardrobe. Once in a lon; time they buy a new dress for them-selves, probably a fairly expensive one too, then they keep it in the wolonkes closet, and bring it out only on Sundays or very special occasions. Nowadays especially, when fashions

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change with such rapidity, a dress goes out of date inside of a short time. But there is mother's dress, almost as good as new, because she has taken such good care of it and she cannot think of throwing it away or putting extra expense on it to have it remodelled, so she wears away at it, out of fashion though it may be.

For these who stay at home a great deal, the custom of dressing up frequently is an admirable one. Some-how clothes seem to have a moral effect on us, and when we put off our working apparel and don a dress that we feel improves our appearance, it rests and refreshes us.

The girls of the family can do much to help mother in the carry-ing out of this worth-while plan, by inte qui of this worth-while plan, by and the security of the security of the security and the security of the security of the security without some attractive class to do without some attractive class to do without some attractive class of the source that home and abroad. Cars not we who are mothers too, endes-yor to keep in mind and carry oo. The ideas contained here by allowing the family to see us in our attractive clothes while they are new, instead of allowing their freshness to fade in the seclusion of the clothes closet ?

below zero-225 MILES north of Montreal is the town of Chicoutimi, where the temperature in winter goes down to 40° to 50° below zero.

At 40°

also rendered the road very smooth for the traffic.

"We have since made over  $20\,000$  square yards of macadam with "Tavia-X" in the commercial sizes, and up-to the present its use has given us entire

coal tar preparation that unites with the macadam sur-face and hardens to a tough

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matrix.

It is something of a task to maintain roads under such frosty conditions, but \*Chicoutimi does it cheaply and well with

Here is the report of Jean A. Claveau, the town engineer, in his own words:

Tarvia.

"During the summer of 1911, we made a trial of "Tarvia.X" in the macadam construction of our principal success. This street is still in a perfect condition and Tarvia has not only served to bind the stones well, but it has

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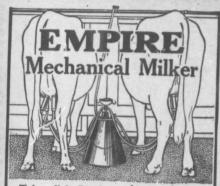
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Prosecutions by Dairy Division CASE of considerable interest to dairymen was settled on Febru-ary 29, in London, Ont., when March 16, 1916.

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"No offer, et for sale "(e) boxes i

packing such p butter': "(()

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the firm of Silverwoods, Ltd., pleaded moulded or cut into blocks, squares a multy to four charges laid against or prints and wrapped in parchment form by officers of the Dominion paper unless such parchment paper Destry Division. Two of these charges is branded 'dairy butter.'" ter, butter mached as dairy but. At hird charge was for having sold The clause of the Act covering this 16% of moletare, and the fourth the fourther for the sector of the sector of the sector. The sector of the sector of

"No person shall knowingly sell, offer, expose or have in his possession for sale

"(e) Any dairy butter packed in boxes similar to those used for the packing of creamery botter unless such packages are branded 'dairy buttor

"(f) Any dairy butter packed, by the Government.

is branded 'dairy bestee'." A third charge was for having sold dairy butter containing more than 16% of moistare, and the fourth charge was for having in possession and "For Sale" dairy butter contain-ing more than 16% of moisture. This Act has been in force since 324, and it is foll that creamerymen sold that the sold that creamerymen sold that the sold that the sold that Act will be present. Violations of the Act will be present.

evidence of its infraction is obtained

## Are the Horses Ready for the Spring Work?

Timely Hints on the Hardening Process by Jas. Armstrong, Wellington Co., Ont.

I froming us in these early apring days is geting the horses in shape for spring work. With us this is a problem of recent years only. During the first years that we were on the farm we had the clearing away of heavy bush from a large part of it, montant of a small period to us. the running of a small portable saw mill, and the teaming of lumber to the railway station. Our horses were worked steadily all winter and came in the spring in hard condition and right ready for hard work. Lum-bering operations are now, however, almost at a standatill. The farms been cleared and we follow straight agriculture. Hence extra precautions are necessary to harden extra precautions are necessary to nargen our teams in the apring. I have heard men say that they could find sufficient work the year round on the farm to keep their teams in good conon, but we have never been able to do it. Our horses are wintered as cheaply as possible, straw and turnips making a large part of their ration. They come out in good flesh and spirits, but there is little reserve energy in them for hard work

Our teams are all re-shod now and they are getting light work every day. They would get more of it if we could find it. In fact, we make work just to keep the teams busy. We are doing all the teaming posible and going to town more than is actually necessary. often At the same time, the grain ration is being increased and the teams are storing up energy. Under this course of treatment, the horses will be fairly hard by the middle of April, and eatenough good grain to sustain ing their strength

their strength. It is a foolish policy to start horses suddenly into hard work when the spring opens up, and it is doubly fool-ish to change them suddenly from light winter rations to heavy grain feeding. The horses' systems, accus-tomed to light winter feeding, cannot absorb the extra feed suddenly im-posed upon them, and they lose in-stead of gain in condition as a result of their liberal rations. In all things we try to follow a moderate, cons vative policy.

#### Colt Culture.

On most farms, ours at least, there On most farms, ours at least, there will be a cost, or perinaps a leasn of colts, conting along which will start hard work for he first time this apring. We are getting our colts ready for the work just as we are the older hornes. One point that, I would coll for its first going work is as a collar be made specially for it. We huy much of our semiment from a buy much of our equipment from a mail order house in Toronto, but one thing that I never have bought by mail is horse collars. We take the colds right to the harness maker in town and have him fashion the col-lar meant for that particular colt. We want a collar large enough that we can pass our hand between the bot-tom of the collar and the breast, and

THE most pressing problem con- that fits nicely at the sides of the fronting us in these early spring shoulder, that is, not so marrow that

it pinches, or so wide that it rubs. One of the most common difficulties with the teams in the spring is sore shoulders. The most common cause of this is that the horse sweats the shoulders gets full of hard, summy dirt, and it is this that causes hard. the sore shoulders far more than the 100 pressure of the collar. I would suggest that the shoulders at least be chipped and kept clean, and if this is done there will be small danger of 100 sore shoulders.

This brings us naturally to the subject of clipping horses. The man who will not take first-rate care of his . team will be safer to leave them un-clipped. The careful teamster, how-clipped. The carcuit teamster, now-ever, will get better service from horses in the spring if they are clip-ped just when the season of hard work begins. With a clipped team, . 18 blankets must be kept always 10 handy, or chills will result. In clay land, too, I would not clip below the 10 knees or hocks, as it is positive cruelty to work a bare-legged horse where there is danger of its legs getting caked with mud. Olipping, t cuts down the labor of grooming. Olipping, too, In order that I may not be misunder-stood, I will emphasize here that this spring clipping is the only clipping that we ever practise. Clipping in the fall, in order to cut down the work of grooming in the winter, is Hitle less than brutal.

Spring work is hard on men. It is terrible for horses, and we owe it to them, on humane grounds alone, to get them ready before the season

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#### Dehorn All Cattle

"HE safety of the herdsman de-mands that the herd bull he de-horued. The comfort of the herd mands that all cows be dehorned. ws are frequently injured by the Cows are frequently Cows are frequently injured by the horns of their stall makes. Hence the increasing popularity of dehoring. Either requisition horn elippers, or a fine tooth saw, will do the work of dehoring efficiently. Just one point: take off enough horn that a ring of heir will come along with it. Other wise stubby horns will develop within the next way or too the next year or two.

The best and least cruel method of The best and least cruel method of removing horms is by means of an ap-plication of caustic potash to the horn huttons while the calf is from one to four days old. The hair is carefully clipped from the buttons and the moistened end ol a stick of caustic potash is then rubbed on the spot until the akin black a kinkly. Care should potant is then rubbed on the spot until the akin bleeds alightly. Care should be taken to prevent the liquid caustio from running off the button, but if only a small amount is rubbed on there will be no danger from this source. If the caustic has beep-pro-perly applied there will be a dent in the skull where the buttom appeared and no horns will derelop.



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Are you feeding cream to the pigs? You undoubtedly are.

In the morning you feel fresh and strong; you turn your separator at full speed. At night, you're tired and don't turn quite so fast. You also stop a moment to refill the supply can; the speed slackens and some cream escapes into the skim milk,

Your separator may skim clean at full speed, but, no matter how good the machine, it will lose cream, and a lot of it, when the speed slackens. Many dairymen are losing a hundred dollars or more every year through imperfect skimming. They are feeding cream to the pigs. A marvelous but simple in-vention now enables you to stop this loss-stop it absolutely. The saving is clear "velvet"-more profit without added expense. You get all the cream with

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Whether you turn faster or slower than the Separator. regulation speed, the bowl of the Suction-Feed drinks in just the right quantity of milk to insure the closest possible skimming. Does away with speed indicator, which is not a protection against cream loss.

The New Sharples Suction-Feed has many other important advantages. Turn fast or slow, you secure smooth cream of an even thickness No more streaked butter from mixing different grades of creamno more dissatisfied customers.

The capacity increases when you turn faster than the normal speed, so you can get through quicker when in a hurry. The large, seamless supply can is only knee-high. The entire machine is made simpler and better than ever.

Send for our new book, "Velvet for Dairymen," which fully explains how you can save the cream now going to the piga. Also ask for our liberal free trial offer. Do it today, before you forget. Address Department 77.

The Sharples Separator Co. Toronto Canada .....



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## FARM AND DAIRY.

who has it booked. In fact, one of . who has it booked. In fact, one or our grocers makes it a regular prac-tice to give a box of chocolates to each customer who settles up regu-larly at the end of the month, while

we who pay cash when the goods are delivered, get no such bonus. Would

it not be a simple thing for our mer-chants to arrange different scales of

prices according as the goods were paid for in cash or credit? This

would enable merchants to give their cash customers some of the benefits that they already receive from the

A big item in the overhead charges

home merchant to meet outside com-

Keeping Money at Home.

The Inconsistency of Merchants.

order house

petition



March 16 activ what I to a mail or they can g money.

I know sound like t cate, rather Then let m merchant apt to be ca order busine try merchan is willing to ing his best tion, let and give hi sible. If he meet mail of most all line merchant is customers a that they pa him to live or warranted by to make diffe versus for th letter is inte the merchant the farmer re whom I know

## Month's Fu

MORIT & F U A MILIFICA 10 annot howed to give and mee in ' month's furios solding them ' seeding, plowi tached to the seeding the seeding will be grant of tached, and ti seach man ma from the peri the departure the departure

## Conta

HAVE read by Dr. W. Abortion, seders dread enders dread r a prevents me question (ber direct of ) What is Lo a it be boug a proper trea ao of retain "Broad"

Lugol's sole iodine solution Pharmacopoea troy grams ic one-half troy o and one pint by any pharma any person wi weigh out the stum lodido, out a pint of w Your third

be the proper arian in or se of when abortion able except by spot. There a which might h all the man on judge regardin -W. L. William ary College.

Feeding fo "HE article in Farm and Fitting for ich appreciate in Mr. Cherr



actly what I do when I send an order to a mail order house, they gogwhere they can get the most for their money.

Money. I know that this letter will sound like the argument of an advo-cate, rather than of one who is willing to consider two sides of the question. to consider two sides of the question. Then Jet we put in a word for the merchant. I recornize that we are apt to be carried too far in this mail order business. We need our coun-try merchants, and if the merchant is willing to rive service and is do-ing his best to meet mail order com-petition, let us keep tab on his prices and stype him the best chance pos-sible. If he is doing his death he can meet mail order connection on almost all lines of his goods. But no meet mail order competition on al-most all lines of his goods. But no merchant is giving his good farmer customers a chance when he insists that they pay his bad debts, enable this to live on a scale beyond anything warranted by his business and refuses to make different prices for delivery versus for the counter trade. This letter is intended to be as much for the marchants who may read it as for the farmer readers of Farm and Dairy whom I know will see it.

## Month's Furlough for Spring Work

onth's Furlough for Spring Work ATTAFIA entor published on March Dores of expeditionary units are sin-bores of expeditionary units are sin-the the the single sector of the single ploying, etc. The contains and the phone or single sector of the sector of a single sector of the sector of the sect

nd. mean thus allowed off to help in a stages of setting in this year's 11 be provided with return frames as to and from any locality not not broke hundred milles from the remon, and show must wear their solids, localing their military and equipment with their re-units.

#### Contagious Abortion

We have been a set of the set of

Lagol's solution is the compound iodine solution of the United States Phasmacopoea. It consists of: Six troy grams fodine crystals, one and one-half troy ounces potassium iodide, and one pint water. It can be made by any pharmacist, or for that matter any person who can have a druggist weigh out the iodine and the potassium lodide, and can then measure out a pint of water.

Your third question, "What would be the proper treatment by a veterinarian in or se of retained after-birth, or when abortion occurs?" is unanswerable except by the veterinarian on the sole account of the votorimitrian on the spot. Theore are some general rules which might be laid down, but after all the man on the spot would have to judge regarding which rule to apply. --W La Williams, N. Y. Slate Voteriaary Colle

Feeding for Off cial Records

"HE article in the Feb. Mth insue of Farm and Dairy on "Feeding and Fitting for Official Records," was not appreciated. I would like to know in Mr. Cherry's answer to question

FARM AND DAIRY.

two where 15 dbs. equal parts of oat chop, bran and oil cake are mentioned, does he mean by measure or by weight. Some-breders measure of meal while others say oil cake meal oil meal weight the same thing, or doe oil meal mean Haseed meal?—P. H. Halton Co. Ont.

The measure is never an accurate method of apportioning the different feeds in the ration of a dairy cow, and when Mr. Cherry mentions equal parts of oat chop, bran and oil cake, he means equal parts by weight. We believe that this was true of all the other feeders whose experiences were given in the article, "Feeding and Fitting for Official Records." The oil mea' and oil cake meal referred to are the same thing.

A M irishman got out of the car at a railroad station for refreeb-ments, but the bell rang and the train left before he had inlahed. "Bould on!" cried Pat, as he ran like a medman after the train. "Hould on, ye marcheria" culd stame engine-pove got a passenger on board that's left behind!"



Two diskings in

one with a double-

action harrow!

d have a better seedbed.

## That requires OWER"

This

Engine

## Rithout labor and und r conditions. AM SEPARATOR, An e runs the Cream Separ-just the speed you want for rundia.

MG WOOD An en G Morces, has without old, without old, without chips, without a senterial by the old method, yr have to thorow away. ING. An engine will de ding, with never a sign or at ding, with never a sign or at NNG FEED, Grinding H NG SILOS. simply fran a engine. Silo owners, mass

WAG The same hose will wash ILES.

Write for Full Particulars, Prices and Illustrated Catalog.

ES: MONTREAL, WINNIPEG, REGINA, CALGARY.

DIRE A OWCIT TARABATIC GOAL GUARANTED FORTS OF 2012BD108 ITT. The Chapman Begins has such as excellent reportation that Initiations are already at the set of the insequences on the set of Chapman fatures are interested and cancel the set of the insequences of the set of the chapman is the entry engine with (1) a perfect straight has when whose one of the the chapman is the entry engine with (1) a perfect straight has when whose one of the set of the all defined to explain and proved it is a case the totaliant is remord when all defined to explain an explained (10) is for hall perform weight are set of the set **Quality Engine** 



Once

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(21) Cutawa

265

ONTARIO WIND ENGINE & PUMP CO., Limited 82 Atlantic Ave., TORONTO.

HOLSTEIN-FRIESIAN NEWS

Parm and Dairy is the leading exponent of dairying in Canada. The great majority of the members of the Canadian Holstein-Friedian Association are readers of the Association are readers of the pert. Members of the Association pett of Holstein Drates of Inter-ent to Holstein Drates for pub-lication in this column.

Olive Starlight Pictertje, 15866, 5y. Tod.; 642.5 ibs. milk, 20,76 ibs. fat, ibs. butter.-Peter B. Fick, Pt.

5r. Four-Vear-Class, 1. Gladys Datiol Prive, 1515, 47, 278, 24.; 630,1 Ba. milk, 13.38 Hm. fai, 34.30 Has. butter, 14-day record: 49, 9m. 34.; 1206.6 Has, milk, 37.38 Has, fai, 47.31 Has, butter, -D. A. MatThese, Vankiesk Hill, 1. Jon 74.; 1648 Has, milk, 17.09 Has, 49, 11.36 Bas, butter,--Edward Baker, Win-chaster,

Jr. Four-Year-Class

1. Pietje Inka Dekkol 19204. 4y. 4m. 11d.; 597.3 Br. milk, 22.16 Bo. fat, 27.70 De. butter. 30-day record: 4y. 4m. 11d.; 2455.6 Da. milk, 92.32 Bo. fat, 115.28 Da. butter.--Gordon S. Gooderham.

Sr. Three-Year-Class.

Pietje Inka Pietantje, 22881, 3y. 3m. 584.2 lbs. milk, 20.43 lbs. fat, 25.53

Manor P. H. Princess, 28809, 2y. 8m. 381.4 Hz. milk, 12.68 Hz. fat, 15.86

-day record: 2y. 8m. 27d.; 743.9 lbs. , 24.34 lbs. fat, 30.43 lbs. butter.-



267

(22)

## This engine will pay for itself quickest

BECAUSE of its low fuel cost and exceptional free-dom from expensive repairs, the Alpha will pay for itself on your farm in the shortest time. You will get greater and quicker returns for the money invested.

You may be able to buy an engine for less money than you can an Alpha, but that should not be your chief consideration in selecting an engine. You should always keep in mind the service you will get from the engine. No other engine will give you as much for as little money as the Alpha.

The Alpha is a simple engine with plenty of power, perfectly con-trolled by a most sensitive governor, that keeps it running steadily and smoothy under light, heavy or varying loads. The fuel consumption is accurately gauged to the load so that there is no waste.

This engine has no complicated, delicate parts to require constant attention—not even batteries. It starts and operates on a simple low speed magneto. You can use either kerosene or gasoline for fuel and the minimum amount of either will be required.

There is another of cluster will be required. There is a great deal of work on your farm that can be done better and cheaper by using an engine. You can save enough to pay for the engine in a very short time. The quickest way to save the money that will pay for your engine is to buy an Alpha now, and put it to work.

Ask for a copy of the Alpha Engine catalogue: It contains a lot of valuable information about gas engines. Alpha Engines are made in eleven mise-2 to 28 H. P. -each formiabed in stationary semi-portable, or portable style with hopper or tank cool cylinder.

## DE LAVAL DAIRY SUPPLY CO., Ltd. LARGEST & ANUFACTURERS OF DARY SUPPLIES IN CANADA. Sole distributes : Canada of the famous De Laval Cream Separaters. Manufacturers of Ide:: I Green Feed Silos. Catalogues of any of our lines mailed upon request.

MONTREAL

PETERBORO WINNIPEG VANCOUVER



March 16, 1916.

March 1

Right 1

DELIVE

TO YOU

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Don't suffer

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Farm

## **Fertilizer** Quality When you buy fertilizer remember you are buying what is in the goods

LEADING OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM FEB. 16 TO FEB. 29, 1915.\*

When a smelter buys gold ore he buys not merely two thousand pounds but he insists on knowing how much gold is in the ore, and Charkson.
 Princeas Mauleen, 11061, 79. 6m. 201 (77). Ibs. milk, 15.62 (bs. fat, 34.53 (b) batter.
 Charken Mauleen, 15.62 (bs. fat, 34.53 (b) batter.
 Charken Mauleen, 15.62 (b) fat, 34.53 (b) batter.
 Charken Kardfordville.
 Medina Pasch, 953, 59. 4m. id.; butter.
 Charken Kardfordville.
 Sr. Four-Year-Class.
 Charken Durch Pasch, 1531, 49. 700. you should know the amount of active nitrogen, which is the gold of the fertilizer.

## For further information write DR. WILLIAM S. MYERS, Firector 25 Madicon Avenue, New York

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Good Looking EUREKA HARNESS OIL will do it. Keeps new harness new. Makes old harness look like

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Cotton Seed Meal Linseed Meal and Flax Seed H. FRALEIGH, Box 3. Forest, Ont.

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## THREE CENTS A WORD, CASH WITH ORDER

BUTTERMAKER WANTED—For Ban-croft butter factory for season 1916. Factory will open end of March. Mc-Caw & Shanick, Bancroft, Ont., Prop.

BUTTERMAKER, RESIDENT QUEBEC. Twelve years' experience. Tester's certificate. Understands pasteurizing, creamery bookkeeping, seeks position. Box 10, Farm and Dairy.

STRAWBERRY PLANTS.—Plants from pedigreed stock from \$3.50 per thou-sand. Bend for list. Leavens Or-chards, Bloomfield, Ont.

FREE to stockmen men, our 80-per bookter on fee construct a heate which will aco overy piece of hamber would common diseases of stock and po-mendes. Tell information about contains full information about Stock sel Quarkry foods and rema

and not merely a weight of two thousand pounds.

> Palmer Sweet THE HY freely air or spoiled e wells. Con-fitting closes, harmour or FOR SALE J. W. RICH inhas Downham Bro WORKING Complet for the and Dairy with comp and instr will be m for \$2.00. Farm and





## FARM AND DAIRY.

**AYRSHIRE NEWS** 

AYRSHIRE COWS AND BEIFERS THAT HAVE QUALIFIED IN RECORD OF PERFORMANCE TEST FROM DEC. 5. 1915. TO FEB. 1, 1915.

Mature Class,

Four-Year-Old Class.

Гонг-Year-Old Class. Queon Mary, 4655; 1100 Hos mills, 468 Ho. fts. 4.38 per cont. fat. 364 days.-Harmon Machenoon, Ortney. Bottlife Bhowkall, 3664; 1666 Ho. mills, John A. M. 2000 Hos. In K. 364 Jac-Pleuretts, 3166; 669 Hos. In K. 369 Hos. fat. 3.54 per cont. fat. 369 days.-M. 368. Maris, Compson, One. Mellor of Synthe Brook Parm. 3637; Bulls, Maris, Compson, One. Mellor of Synthe Brook Parm. 3637; Bulls, Maris, Compson, One. Mellor of Synthe Brook Parm. 3637; Bulls, days.-A. Molkae A Brose. Biowrishill, Marki, 2690; Brook and Hos. Hos. 3.55 per cent. fat. 354 days.-John A. Morrisco.

Three-Year-Old Class.

Whitney's Lassia, 41653, 10204 [ba. mllk, 488 [ba. fat. 4.15 per cent. fat. 566 daya.-John A. Morrison. Wirkischill White Bone 3rd, 53997; 10509 [ba. mllk, 423 [be. fat. 4.65 per cent. fat. 530 days.-A. S. Turner & Son, Byckman's Cor-ners.

TESTED SEEDS

UE-VIGOROUS-RELIABLE

fat, 3.74 per cent. fat, 357 days.-John

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## Two-Year-Old Class.

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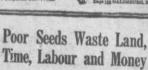
Bennis Douglas, 38275; 6718 lbs. milk, 32 Barah Douglas, 38275; 6718 lbs. milk, 32 Bas fat, 4.76 per cent. fat, 328 days.-John MoKee.

McKee. Honnie Brase Ruth. 41387; 6423 lba. milk 275 lba. fat. 428 per cent. fat. 273 daya.-G D. Mode, Vankleek Hill. W. P. Stephen, Sec. Treas.









THE COST of seeds is a small fraction of the cost of a crop-but upon the quality and vigor of the seeds depends the size of that crop. McDonald's Tested Seeds give maximum productiveness for the land, labour and money that are used to cultivate them. They are "seeds with a pedigree"—selected strains, chosen for yield and vigor, and are subjected to rigid germination tests before being passed for sale to our customers.

CATALOGUE FREE UPON REQUEST ::

Our Fortieth Annual Seed Catalogue la ready for delivery. It dearnhes and illustrates hundreds of varieties of seeds, with suggestions for their proper cultivation, and contains information of real value in helping the farmer or gardener internation of real value in actually set taking an actual of a pro-plan his planting. A copy will be sent free upon request—simply say "Send Your Seed Catalogue" on a postcard, with name and address, and your catalogue will go forward by return mail.

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# Do You Know About the Advantages of Internal Bathing?

## The Dangers of Auto-Intoxication Explained

(24)

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vin and Ringbone Paste

ren copy of Floming's Vost-Pocket Votorinary Advisor In pages, durably bound, inder ad. Covers over one hundred bloots. Read this book befor y kind of lamenous in horses.

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In these days of super-activity in the material was been and order if the second seco

This improved system of internal matrix to be a system of internal expression of the system of the system made this his hirs study and work, who subject called "The What, the Why, the Way of Internal Mathing" This he will called "The What, the Why, the Way of Internal Mathing" This he will call the system of the system way of Internal Mathing This the Way of Internal Mathing This College Bu, Toronic, and mendening that they have read the in Farm and Datry

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BRANT BREEDERS' MEET.

Printer be result to the sector of the se

A FAVOR Please mention FARM AND DAIRY when

#### WHEAT.

WHEAT. Large stocks of wheat on hold farms and in elevators, together with hack of guotatuos. Outarto miller seems to up full applies, and at the present full up market, selling to the present time On-market, selling to the present time On-states wheat of similar quality. Quota-tions of a full argument of the selling withing pre-casion, Sike on site similar withing the casion, site on site site feed wheat, Sic 10 etc.

or entity and fough, 300 to 860; read board of the contrast of the contrast of the contrast COARSE CRAINS. COARSE CRAINS. Coardia of the contrast of the contr

whice, 300 to 120. MILL FEEDS. Brah, contrary to the usual movement, has not followed the sharp in wheat, iteval. Bran is here quoted \$35; shorts \$26; middlings, \$27; feed feer bas, \$1; for mean, \$35; future feed, \$30. middlings, \$44 to \$40; meaning, \$10 to \$35. middlings, \$44 to \$40; meaning, \$10 to \$35. Montreal Quote as a followed frame, \$45 to \$35. middlings, \$44 to \$40; meaning, \$10 to \$35. Montreal Quote as a followed frame, \$45 to \$35. Montreal Quote as a

HAY AND BTRAW, Lots of shows and good roads for de-ilvery from the farm have resulted in a reduction of the at lots on track No. guided \$17 to \$18 in car lots on track No. Montreal the marking \$4,86 to \$7. At Wontreal the marking \$4,86 to \$7. At Wontreal the Government setting all the No. 3 hay it wants at \$30, and No. 3 at \$18.46. No. 1 hay is guoted \$31, and rejected hay \$17.50.

## THE SEED MARKET.

THE SEED MARKET, Wholessless are solling to the country trade as follows: No. 1 red clover, ewt., 25 to 135; No. 3, 2540 to 1535.60; No. 3, 319; No. 3, 316; G11 to 522; No. 3, 318 319; No. 3, 316; No. 1, 310; No. 3, 318, 30 No. 3, 322; No. 3, 319; No. 1 timothol 319 No 514; No. 3, 210 to 511.00; No. 3, 38.60 () 510.

to 144 No. 2, 410 to 111.061 No. 3, 49.40 D 150. EGGS AND POULTRY. Biomess eggs are now of the market prom country points are side . Receipts the time spectra are Some stras are be-in devicedly from Chicago. The market is time system are some stras are be-in devicedly from Chicago. The market is to 32c row laid ex-carton. He to 32c. The country price is higher in 32c. The country is the some is an 32c. The country is an area in the some is 32c. The country is an area in the some is 32c. The country is an area in the some is 32c. The country is an area in the some is 32c. The country is an area in the some is 32c. The some is an area in the some is 32c. The some is an area in the some is 32c. The some is an area in the some is 32c. The some is an area in the some is 32c. The some is an area in the some is 32c. The some is an area in the some is 32c. The some is an area in the some is an area in the some is 32c. The some is an area in the some is an area in the some is 32c. The some is an area in the some is an area in the some is 32c. The some is an area in the some is an

DAIRY PRODUCE.

DAIRY PRODUCE. The altituation in butter is steady here. Prices are lower than across the line, and the manner patiends the market. In fast basis, and some butter has already here ashipped to the United States. Toronto quotes creamery prints, fresh made, see to May creamery and a forsage. It is to

March 16, 1916.

Market Review and Forecast

<text> is heating dome, with choiced creativery 20% to 16 and 20% of 16 control to 15 and 20% of 16 control to 16 and 20% of 16 control to 16 cont

Horn at puck, is to state out, it to Horn advanced strongly last week and were always a strong feature of the mar-stel, Bolecies swere quoted, fed and wat-sred, at \$10.35 to \$16.60; light and heavy, \$10.69; fills weighed out cars, \$10.75 to \$10.69; fills weighed out cars, \$10.75 to \$10.69; fills weighed out to \$10.15; sows, fed and watered, \$7.60 to \$16.15; sows, fed and watered, \$7.60 to \$1.61; sows, fed and watered, \$7.60 to \$1.61; sources and \$1.60 to \$1.61; sources and \$1.61 to \$1.61; sources an

## SEMI-OFFICIAL RECORDS OF HOLSTEIN-RIESIAN COWS FROM JAN. I YO JAN. 25, 1916.

### Mature Class.

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15. Ditter-A. E. 68113 & Soh, Ali-grove. A. Rike De Kol Veeman, 1882, 39, 1561. 1185 Do. mills, 621 Ber Att. 662.5 Beb Dut-ter A. Rames A. Clark, Victoria, P.M.I. 2070 Do. mills, 441 Ber A. 6626, 57, 2804.1 2970 Do. mills, 445 De. F. 6626, 57 Beb Dut-ter-Bichard Honey, Dardford.

ter.-Richard Ronzy Darkovic, S. 166, Duit-ter.-Richard Ronzy Darkovic, S. 1998, S. 2004, I.
 Tressie, B. 1998, M. 1993, S. 27, 2004, I.
 Tressie, B. 1998, M. 1998, S. 1998,

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Hinman Mill Oneida Av

District C Milker Co —Watertov Judge Ray

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Judge Geor States Dist down a decis by the Hinm pany, of On Milker compa fringement court directs ment against with full cos fix damages.

The decisio the Hinman pany, whose gained a wor been imitate ious parts of their sound b

derful success The action man Milking committing f the complaine and for dan ments already ments already was tried in Court at Sy Sept. 1st an Ralph H. Woo ed for the H company with son and E. A The Visible ? presented by of Watertown Chicago.

What th This deoisi Milking Mach monopoly on sale of the chine industry pation of a the company plant on Eliz double dts form duct is sold in ton, in Canada and a number and orders fro ceived almost

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Douglas &

March 16, 1916.

## HINMAN CO. WINS BIG PATENT SUIT

GIVEN JUDGMENT WITH COSTS

Hinman Milking Machine Company of Oneida Awarded Damages in U. S. District Court Against the Visible Milker Company for Infringement —Watertown Concern Restrained— Judge Ray's Decision.

The following is from the Oneida, Y., Despatch:

Judge George W. Ray of the United States District Court just handed down a decision in the action brought down a decision in the action brought by the Hinman Milking Machine com-pany. of Oneida, against the Visible Milker company, of Watertown, for in-fringement of patent, in which the court directs an injunction and judg-ment against the Watertown concern with full costs and an accounting to fix damages.

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The decision is a notable victory for the Hinman Milking Machine com-pany, whose machines, which have gained a world-wide reputation, have been initiated and infringed in var-ious parts of the country because of their sound basic principles and wonderful success.

The action was brought by the Hin-man Milking Machine company to re-strain the Watertown company from committing further infringement on the complainant's (fliaman's) patent and for damages for the infringe-ments already committed. This case was tried in United States District Court at Summers. was tried in United States District Court at Syracuse, Aus. 31st and Sept. 1at and 2nd, 1915. Attorney, Rahpi H.:Woolver of this city appear-ed for the Hinnan Milking Machine company with Attorneys H. P. Denal-son and E. A. Thompson as counsel, The Visible Milker company was re-the Visible Milker company was of Watertown, and Fred Gerlach, of Ohicago. Chicago.

#### What the Decision Means.

what the because means. This decision gives the Hinman Milking Machine company a practical monopoly on the manufacture and sale of the valve-type milking ma-chine industry, and it was in antici-pation of a favorable decision that the commany recently ordereed its the company recently enlarged its plant on Elizabeth street to about plant on Engaged street to about double its former capacity. Their pro-duct is sold in every state in the Un-tion, in Canada, Mexico, South America and a number of European countries, and orders from new territory are received almost every day.



FARM AND DAIRY.

Since yee that yeens the source and the source of the s

W. A. Olemous, Sec

#### E. B. MALLORY'S OFFERING.

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#### A CHAMPION BULL.

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#### SOME AYRSHIRE RECORDS.

A lump of starch in the bottom of the salt seller will absorb the mois-ture without diluting the salt.



## Jos. O'Reilly, High-Lawn Farm, R. R. 9, Peterboro, Ont

## 

Did you ever notice what the daughters of Pontiae Hermes are doing? We have 18 of them that we must breed to something else. We might consider an offer for this grand old bull. He is as halo and hearty as ever at 10 years of  $n_{\rm B}^{-1}$  Write to us at once.

## E. B. MALLORY, Bay Side Stock Farm, BELLEVILLE, ONT.

## VILLA VIEW HIGH-TESTING HOLSTEINS"

Now is the time to bey a subscription of Lo I and the Links of the Lin

ARBOGAST BROS. - SEBRINGVILLE

ONTARIO.

### BURNSIDE HENGERVELD KORNDYKE-SON OF A 27.60 lb. COW FOR SALE

SON OF A 27.60 lb. COW FOR SALE Sire King Henservidi Korndrika, a frankan of Penakon Markan mandam made 35 lba. butter seven daya. Dan Bir Johanna's Huranda, milk in one genez 2013 lba, one day 116, butter 7 daya 27.60. Sho been and the seven daya in the seven daya in the seven daya in the seven Henser and the seven daya. The seven daya in the seven daya in the Been and the seven daya in the seven daya in the seven daya in the Henser and the seven daya in the seven daya in the seven the seven daya in the seven daya in the seven daya in the the is mostly white; calved bec. 5, 1916 sale and an one seven daya. The built calve first levery law in the seven daya in the seven daya in the seven daya in the seven daya is in the seven daya in the seven daya. The built calve first levery law is a seven daya in the seven daya i



To My Heistein Pellow Breeders... We want the breeders in Canada to know that this is not a dispersion said. Put it in the second second second second second second and the second seco

#### THERE WILL BE 50 HEAD IN OUR GREAT OFFERING

Twenty of the thirty-three females offered will have official R.O.M. records, ranging from 17 Hbs. to 29.79 Hbs. butter in seven days.

Thirteen of the thirty-three fe-males offered will have R.O.M. records of 20 lbs. butter or over in seven days, averaging 22.32

Most of the females will be bred to Sir Lyons Segis or his son, Sir Riverdale May Echo, the richly bred sires heading this

nero. The fifteen young bulls ranging in age from one to fifteen months, all sired by Sir Lyon. Segis, will make it an opportune place to select a herd sire of noted breeding.

All the mature cattle have been tuberculin tested, making it an offering absolutely healthy.

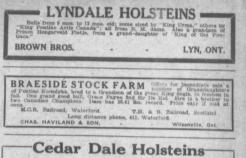
Come to this sale if you need Blood to put your herd to the top. There will be no reserve after an animal enters the ring.

ALLISON STOCK FARM CHESTERVILLE. ONTARIO.

(25)



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6 Bulls from 8 months to 14 months eld at a bargain, sired by Prince Segis Walker Korndyke, whose dam save 80 Bbs. milk as a three-year-old, and is a daughter of Pontiac Korndyke. His foll sister made 24 lab, butter with first calf and are out of R.O.P. cown. Satisfaction guaranteed or monoy refunded. For prices and photos, write or phone A. J. TAMBLYN, - - - - - Orono, Ont.

FAIRMONT HOLSTEIN HERD

Is headed by King Segis Alcartra Calamity, the \$2,000.00 son of the \$50,000.00 PETER S. ARBOGAST, R. R. No. 2, MITCHELL, Ont., SEBRINGVILLE Stn.



day --- the square deal and honest selling.



Every customer for a friendand a better buyer for the coming years

JAS. A. CASKEY

Sales Manager

MADOC, ONT.

## THAT'S THE STANDARD OF OUR GREAT

SIXTH ANNUAL BELLEVILLE, Thursday, March 30 80 of our choicest will be offered SALE AT will be offered

Our Sale this year will offer the greatest buying ever placed before men who know good dairy cattle. We have included this season a great deal of young stock bred right close to the Champions that have made Hoisteins-particularly Belleville Hoisteins-famous across America Much of this young material is still untested. That's where you will profit. You have a chance to buy the richest blood in Holsteins-blood that under test will put YOU and YOUR HERD in the front ranks. Think of being able to bid on grandsons and granddaughters of such animals as May Echo, Lulu Yeyes, Victoria Burke, Rauwerd Count DeKol Lady Pauline, Dalsy Pauline Pietertje, Inka Sylvia Beeta Posch, Pius Burke, Count Segis Walker Pletertje, Pontiac Hermes and King Segis Alcartra Spofford-all in the Belleville District.



BEN. H. LEAVENS

President

BLOOMFIELD

THEN GAN YOU AFFORD TO MISS MARCH 307 Most Certainly not, if you are prepared to start a now herd with RIGHT BLOOD and put BETTER BLOOD behind your present herd. Wait for this sale. Get your herd sire here—or any females you need. A breeder who bought over \$1,200 of stock at a previous sale, says it was the best buying he ever made. And he will be back again this year.

KEEP THIS IN MIND, TOO-when you buy in Belleville you are buying where hundreds testify to the square deal in auction selling. There won't be a single owner have a say on this stock after it enters the ring. That's the Belle-

THE BELLEVILLE SALE THIS YEAR WILL CONTAIN MORE OF THE BLOOD OF CHAMPIONS THAN ANY OTHER SALE EVER HELD HERE IN CANADA. Know more about our offerings by sending a card to the Secretary for a Catalogue, Plan now to meet your other breeders at the ringside, March 20,

F. R. MALLORY, Secretary

Frankford. Ont.

FARM AND DAIRY.

March 16, 1916.

The New Reo the Fifth

# On the Subject of - Commercial Integrity

WE REO FOLK BELIEVE—have always believed and from the first have based the Reo Policy on the belief that ultimate supremacy in the automobile industry will redound to that concern that has the most scrupulously fulfilled its obligations to its customers.

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- IT MATTERS NOT whether those obligations are assumed in writing or merely implied in transactions as between man and man, the Reo Folk hold them as sacred.
- IF THERE IS ANY REASON—aside from the inherent quality and value of Reo cars—for the splendid Reo success, it is to be found in the reputation Reo has for making good its guarantee.
- OF COURSE YOU KNOW—all the world knows—that the Reo Motor Car Company is financially one of the strongest automobile companies in the world.
- AND YOU KNOW that it is also one of the pioneers in the industry-so that financial strength is not due to lucky chance nor to a brief period of prosperity.
- REO STANDING-financially and in the hearts of buyersis the result of a policy firmly founded in the beginning and consistently carried out through a long period of years.

BUT ALL THAT would not matter if the heart of Reo were not sound.

- IT WOULD NOT MATTER how much money there was back of the Reo guarantee if there were not also Reo Integrity and Reo Good Intent.
- NOR WOULD IT MATTER how broad the experience, nor how great the skill of Reo engineers, if that skill were applied to designing for "selling" rather than for service.
- THAT IS WHY, knowing the Reo Folk and their ideals, you'll feel more safe in selecting a Reo than any other car of similar size or price class.
- SPEAKING OF SIZE-do you realize what a big, as well as beautiful car is that New Reo Six?
- IT'S A FULL 7-PASSENGER CAR-126-inch wheelbase and on cantilever springs, giving the fullest passenger space and the utmost in luxurious qualities.
- DEMAND IS TREMENDOUS—and output of this 7-passenger Six is limited. So if you'd have the most huxurious equipage and the sweetest running car the Reo Folk have ever turned out, your order should be in our hands at once. Today won't be a minute too soon.

