

The Man Who Will Let His Wife Work Her Life Away in the Dairy With Old, Obsolete Machinery, Must Be a Pretty Stingy Cuss

Why do you keep a dairy? Isn't it because you want to make money on it? How do you expect to do so if your separator only does about half the work it should do and takes twice as long?

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



A GREAT IMPROVEMENT IN OUR DAIRY METHODS

The Past Year the Most Successful on Record. Dairy Products of Higher Quality Than Ever Before.

The key-note of the 33rd as convention of the Eastern On Dairymen's Association, held Ontario Dairymen's Association, held last week in Belleville, was that the dairy season of 1909, had shown more real, substantial dairy progress than any other season in the long history of the association. Speaker after speaker emphasized this point. Close, behind it, however, came the announcement that we are still far behind our chief that we are still far behind our chief competitors, the Danes, and in some respects behind even the dairymen of New York State. By the adoption of improved methods, it was claimed that we can revolutionize our system of dairying and double and tows and average thon, I. S. Duff, Mr. C. C. Tames, Pres. G. C. Creelman, Mr. J. H., Grisdale all emphasized this risdale all emphasized this Incidentally it was brought out Grisdale by Dairy Commissioner Ruddick that our cheese industry has nothing to fear from the competition of the dairymen of New Zealand.

THE PROGRESS MADE

An opening note of encouragement was struck by Mr. G. G. Publow of Kingston. Mr. Publow is the chief dairy instructor and sanitary inspec-tor for Eastern Ontario. Under his direction are some 26 dairy instructors whose duty it is to visit all the cheese whose duty it is to visit all the cheese and butter factories in Eastern On-tario. Mr. Publow himself, during the past scason, visited all parts of the eastern half of the province and came in contract with thousands of farmers, cheese and butter makers and factormen. When, therefore, and factorymen. When, therefore, Mr Publow said—"We have just completed the most successful season in the history of our instruction work," it was recognized that progress had been made." Mr., Publow's report is published on page 12.

IMPROVEMENT CONFIRMED

Mr H. A. Hodgson, of the well-known firm of Hodgson Bros. & Row-some, cheese and butter exporters, Montreal, confirmed the improvement Montreal, contirmed the improvement that was noticeable during the year, when he said that from the Atlantic right through to Sarnia, Ontario, the quality of the cheese and butter manuquality of the cheese and butter manu-factured during 1909 was higher than ever before. A warning was given by Mr. Hodgson, however, that further improvements are still needed, one of these being in the proper stencilling of the weights on boxes. OPPICERS 190 OFFICERS, 191

The following officers were elected: Hon. Presidents—Senator D. Der-byshire, Brockville; J. R. Dargavei, Elein, both for life. Pres.—Henry Glendinning, Manil-

Ont. st Vice-Pres.-J. H. Singleton, la, 1st

Smith's Falls. 2nd Vice-Pres.—T. A. Thompson,

Almonte. Sec.-R. G. Murphy, Brockville, Ont.

Treas.-Jas. R. Anderson, Moun-tain View.

Treas.--jas. K. Anderson, Moun-tain View. Auditors.--John Kerr, Belleville; A. S. White, Sidney Crossing.-Directors.--John H. Singleton, Smiths Falls; Neil Fraser, Vankleek Hill; Edward Kidd, North Gower; W. H. Imstead, Beatrook; John Mc-Goregor, Alexandria: William Mont-gomery, Gravel Hill; J. T. Payne, Brinston; James A. Sanderson, Os-ford Station; J. B. Wilson, Wilstead; T. A. Thompson, Almonte; Jos. Mc-derson, Overton; James M. Mithad; Grath, Mount Chesney; Cas Mc-derson, Overton; James M. Mithad; Wellman's Confile-jone. Hume, Meine; G. Godi, Ging, Manilla; W. S. Blakely, Cherry Valley.

THE SEASON'S TRADE

annual of cheese for 1909, when present stocks Ontario go forward, will be about \$20,000,000, d last or practically the same as last year. he dairy The exports of butter will be about \$508,025, or some seven million dol-lars less than for 1905, the banner exlars less than for 1940, the bannel se-port year Senator Derbyshire show-ed that this decrease in exports does not mean that there has been any de-cline in our dairy industry. The butnot mean that there has been any de-cline in our dairy industry. The but-ter that we formerly exported is now being consumed in Canada as a result of our increased population, over some million people having come to Canada during the past few years, "When you auring the past lew years, "When you consider the milk, cream, butter and cheese consumed by our cities, towns and villages," said Senator Derby-shire, "you will find that an immense increase in consumption has taken place compared with only three years ago, and our home market can be ago, and our home market can be easily extended. Produce fine clean milk and cream and we can double our business." our business

OUR HOME MARKET

Hon. J. S. Duff, Minister of Agri-culture for Ontario, surprised his aud-ience when he stated that slightly over ience when he stated that slightly over one-third of the population of Mani-toba lives in the city of Winnipeg, which means that considerably over one-third of the people of Manitoba are not producing food and therefore have to depend on the farmers for their supply. Mr. Duff ventured the opinion that the proportion of city opinion that the proportion of city Ontario. The great increase that is taking place in the population of our cities and towns is developing a home cities and towns is developing a home market the importance of which can hardly be over-estimated

BETTER WEALTH DINTRIBUTION Mr. C. C. James, Deputy Minister of Agriculture for Ontario, who last summer visited several European countries, stated that we nee d to learn in Canada how to distribute wealth, so that an undue proportion of it will not flow into the hands of a comparatively few people. He stated that he had seen recently in a Mon-treal paper that Montreal now has has over 100 millionaires. The ideal conditions in a country are not those which make it possible for a few men to get immensely wealthy while many are in absolute poverty. What we should aim for is to create conditions under which it will be possible for all the people to prosper in common. Un-der existing conditions it is possible for people in cities like Toronto to derive great wealth through the ef-forts of the farmers of the country, whsoe productive work it is that builds up the cities. While in Denmark and Sweden Mr. James found the people prosperous and contented, although such a personage as a millionaire was practically unknown. Mr. James thought that agriculture

s not receiving the attention in Canada that it deserves. The Dominion Government, for instance, does not hesitate to vote \$10,000,000 to build a bridge across the St. Lawrence, al though a suggestion to spend such amount for agricultural purposed in-rect would receive scant considera-tion. Anything that helps to increase the prosperity of a construction the prosperity of a country helps to benefit all classes of the community, If this were rightly understood, our governments, including the provincial as well as the dominion, would be ready to spend more for agriculture. Mr. James claimed that the farmers of optimized and that the farmers

of Ontario are not alive to the possi-bilities of the soil. Many farmers are billities of the soil. Many farmers are rushing out to the west, when if they only knew it, there are numerous counties in Ontario, including Prince Edward, which produce two and three times as nucle, wealth per acre as can then are nuclear to the soil of the Hon. Mr. Duff said that if our farms were properly looked after and (Continued on page 6)

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FARMAND DAIRS

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No. 2

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a Year

IMPRESSIONS GAINED FROM JUDGING DAIRY FARMS IN WESTERN ONTARIO Mr. Henry Glendinning, the Judge of the Dairy Farms in Districts Nos. 3 and 4, Talks About Some Features of the Competing Farms that Came Under IIIs Inspection

OOD buildings, good stock, good farms 66 and these for the most part well man-1 aged !" Such were the comments made by Mr. Henry Glendinning of Manilla, while discussing the merits of those farms in Western Ontario competing in the Prize Farms Competition that was conducted during the past year by Farm and Dairy. "Good as these farms were, said Mr. Giendinning, who was the judge, "none of them were perfect. Those scoring high in one particular were invariably low on some other point. There is room for improvement on all of the competing farms notwithstanding the fact that individually and collectively they rank much above the average farms of this province, or of the Dominion.

"The character of the dwellings and of the stables on the competing farms are particularly worthy of note. Many of the houses were exceptionally good. These were well furnished. Many of them were supplied with water on tap. Barns, almost without exception, were supplied with water right in the stables where the stock could help themselves at will. These barns were large and commodious, well lighted, and many were painted. Cement floors and mangers were commonly found. The majority of the stables were white-washed and were kept neat and clean.

LACK OF VENTILATION

"But, good as these stables were in these respects," continued Mr. Glendinning, "with one or two exceptions all could be greatly improved as regards ventilation. It would appear that this matter of ventilation is the weakest point in the dairy barns of Ontario. Any attempt at ventilation in the majority of instances was by means of the windows, by tile in the walls and by feed ing chutes, systems, which while better than none, are far from adequate.

"Save in one instance, all the competitors were making an attempt to practise a rotation of crops. Fields had been enlarged so as to better permit of a suitable rotation and to economize in the matter of labor and time through the use of large implements hauled by three or four horse teams. The best results in the way of crops were evident on those farms that practised a short rotation. The three year rotation, which is clover, roots or corn, and then grain seeded down, had given distinct results on the farm: where it had been practised. The four year rotation was perhaps the most popular although some practised a five or a six year rotation.

AN UNFAVORABLE YEAR

"The year 1909 was not the most favorable one for crops and for that reason it was a bad season for many to show just what they can do with crops. It will be remembered that it was wet late in the spring, that being followed by extremely dry weather. Crops, therefore, did not show up to advantage. Especially was this true of those farms in the neighborhood of Brampton. They suffered much from the dry weather. Further west there was more rain at this season. They were caught by drought, however, later in the season when in the more easterly districts there was plenty of rain.

"It was not difficult to distinguish between those farms that had been underdrained and those where drainage was lacking. More or less tile draining was a part of almost every competing farm. Some competitors had many miles of drains and on these farms invariably were to be found, the best crops. Where the drains were, the crops were found to be the best on the lowest land, whereas in nearby fields, land, equally as low, was almost unproductive owing to the lack of underdrainage which drainage was vitally essential in a season like the one just nast.

GROWING COW FEED ONLY

"The suitability of the crops grown on these competing farms is worthy of note. Those who stood the highest, for the most part grew only cow feed. Some sold a part of their grain and replaced it with mill-feeds, brewer's grains and oil-cake. Brewer's grains were especially popular in the neighborhood of Toronto. The most successful farmers and those who stand at the top or near the top in the final score, were those farmers that are feeding corn silage and alfalfa hay. Some of the competitors could considerably increase the productiveness of their farms by paying more attention to this matter of suitable crops and by working clover into their rotation in such a way that it would be on the land more frequently or having shorter intervals between one clover crop and the next. Several of the competitors were feeding all the grain and fodder produced upon their farms. These were the men that were reaping the best results.

"The question of general farm improvement had not been overlooked, although some of the competitors were far ahead of others in respect to modern conveniences, labor saving contrivances, neatness of buildings and surroundings. Fences, especially, had received much attention. On some of the farms, rail and stump fences have practically given place completely to modern woven-wire fences. It was really wonderful to note the manner in which many of the farms had been cleaned up for this competition. Plies of stuff in some instances had been gathered up and had been disposed of, which material had for years been an eye-sore to the place.

"Good dairy stock was the main feature of the



High Scoring Barns, Owned by Mr. Issac Holland, Brownsville, Ont., is the Dairy Farms Competition

Many fine heres were sensore those as the farme entered in the Dairy Farms Competition that was conducted over Ontario last year by Farm and Dairy. The barn illustrated took a high score, as will be seen from the table are for the sensor of the sensor farme will compete this parts the impressions gained by Mr. Hy. Giodinning, the judge of those farms in Western Ontario, from his two inspections of these farms. A summer of the issuing farms will compete this parts to determine the best dairy farms in the province.

leading farms. With the exception of two or three cases, the competitors had been working into dairy stock. Rarely was it but that the stock kept was a distinct credit to the farms, though in a few instances, great improvement could be brought about. Much of the stock was pure bred and many of these individuals were being worked into the Record of Performance.

There were a few competitors who as yet have overlooked the matter of keeping individual records of their dairy cows. This lack in their management was invariably evident in the class of stock kept, those having the best stock having brought it to their present state of excellency through judicious selection based on actual production at the pail. A few competitors, even whose dairy stock is pure bred had overlooked this vital necessity of knowing what each cow was producing.

A TREAT IN STORE

"There were many outstanding features of individual farms which are difficult to describe in a general interview like this," concluded Mr. Glendinning. "Farm and Dairy readers may look forward with pleasure to the satisfaction of getting in touch with the modern practices on these competing farms through the essays, three of which each prize winner has yet to sebmit upon some phase of his farm practice, as called for by the judges and which will be published in Farm and Dairy throughout the coming weeks."

Secure a Maximum Production* C. F. Whitely, Ottawa, Ont.

The consumption of milk and its products is steadily on the increase and the demand for good cows is not falling off, so that with increasing population no "over production" bogey need scare us. Ontario has seven cows for every 100 acres of cleared land; with suitable crop rotation ensuring abundance of succulent feed, there could easily be four times as many cows. A great railway magnate has predicted that the United States will soon have to import wheat! We need seriously to enquire if our methods tend towards an increasing revenue per acre, from better seed, better methods, bigger crops. Our cows must be fed; bread and cheese is still demanded in England and fancy Lutter here.

A low average return holds back real progress and cheats men out of genuine success. Such good averages as 8,000 lbs. milk from 50 cows, as obtained by a man near Ottawa, should help to instil ambition in other minds. This maxim might well be heralded to every farm. Don't figure on how little profit you can "get along with," but "how much profit" can you make. Get the utmost possible from each cow.

TOO MUCH SPARE TIME

The total yield of milk is largely influenced by the training to a lengthy milking period. This naturally begins with the first season of the young stock. Our records show a very large proportion of cows dry in eight and a half or nine months, they could easily work another six weeks. Many that calve in March are just dribbling along in September and go dry in October. Can any business stand that proportion of spare time? Could a store, usually open 10 hours a day, Monday to Saturday, afford to remain closed a day and a half, and not open for customers till one o'clock Tuesday afternoon instead of 8 o'clock, a.m., Monday?

The very fact that pasture may be scarce in August should lead the unobservant dairyman to provide other feed. Shrinkage in milk yield and smaller factory cheques can be largely prevented. Good records around Ingersoll, Ont., were made on a farm where there was no pasture after the middle of July, but where forehandedness had the summer silo stocked, where alfalfa, corn and oil cake played an important part.

* Extract from an address delivered at the Eastern Ontario Dairymens' Association last week.

Some Ontario records showed cows giving 1,000 lbs. of milk in September, but only 460 in October; or again 520 lbs. in September and actually dry in October; while in contrast to this some Quebec records noted a positive increase in September milk over August of 63 per cent.

THE DIPPERFUL VS. GALLONS

We need to digest the fact that cows all round is are being educated to give 8,000, 10,000, 12.000 lbs. of milk and upwards; we have been contented too long with a dipperful when we should have gallons.

How much profit per day do your cows earn? There are hundreds that do not earn one cent a day; even allowing only \$25 for cost of feed, some have to be fed seven or eight days to pay one cent profit over cost of feed. Roughage and grain cost perhaps five cents, plus five cents for maintenance and the cow just exists, yielding scarcely 3,500 lbs. milk; but if her individuality and dairy characteristics warrant it, she may have an extra eight cents worth of feed and be coaxed up to an annual yield of 300 or 400 lbs. of fat. Some cows, it is proved, have had \$20 worth more grain and have given \$40 worth more milk.

Feed, therefore, to tip the scale of profit well down, don't try just to balance the beam. To keep 15 or 20 cows just alive, but, dead to any ambition of productiveness, is not profitable; betand cities, the gigantic construction of railways, the largs increase in mining, road building. freighting, and the settling and development of the enormous clay belt in Northern Ontario, with the almost unlimited area yet untouched in our great West, means that there will be a strong persistent demand at high prices for all draft

Many transportation companies in the large cities across the line after giving auto trucks a trial, are abandoning them and going back to horses, as they find them more reliable and less expensive. Good draft horses were never selling as high as now and the outlook for breeding th was never brighter.

horses that will be produced for many years to

While the writer has nothing to say against any of the draft breeds, be they Percheron, Belgian or Clydesdale, it is a great blunder to breed a Clydesdale mare to any but a Clyde stallion. We have kinds enough now without trying to evolve any more types by intermingling the different draft Lreeds.

How to Store Ice

Fred Dean, Creamery Instructor, Guelph Every dairy farmer who is a patron of a creamery should provide a supply of ice, and then make use of it in cooling his cream. It will pay him large interest on money invested, also

give him big remuneration for time spent in building the ice house and in putting up the ice.

The majority of ice houses built by patrons have been very simple and cheap The main point in construction is to have good drainage under the ice. This can be obtained by having three or four inches of cinders scattered around on the site for the ice house: then rails on top of cinders, with five or six inches of sawdust on top of the rails. Eight posts five feet apart each way and placed three feet in the ground will provide the skeleton for a building ten feet square. It can be made as high as necessary, depending upon the

A Shelter Break on a First Prize Farm

A Norway Spruce windbreak as illustrated protects the north and west sides of Mr. E. Torrill's farm buildings and orchard. These trees are 33 years old from the seed. When mature, Norway Spruce for windbreaks abuild be 24 feet apart. It is will to plant them 15 feet apart and then out out every other one, when such some advisable. Mr. Terrill's farm won first price in district No. 2 in the Dairy seems advisable. Farms Competiti-

ter by far only keep 10, each one a hummer. We need cows that are blessings not calamities. Their conversion depends largely on watching records.

Bright Future for the Draft Horse T. Baker, Durham Co., Ont.

There is not another branch of farming opera tion that is, and will continue to be for years to come, more profitable than raising and finishing for sale pure-bred, high class draft horses. My advice to any farmer who is a horseman is buy a good, registered draft mare of the draft type. Then mate her to the best draft stallion available. If the fee is \$20, don't hesitate about paying it. It may mean a colt worth \$50 or more than a foal from a cheap stallion.

It is impossible to accurately prophesy for the future, but the indications are that good draft horses with quality and weight will bring very remunerative prices for years to come. The development of Canada during the last 10 years has rttracted the attention of the world. The development during the next decade will be so marvellous as to exceed the predictions of the most optimistic. The rapid growth of our towns number of cows kept and the ice required.

The posts can be fixed so as to support a shanty roof, made of boards, these to overlap about one or two inches. The sides and ends can be built of rough lumber nailed on the inside of posts to keep the sawdust in. The gable ends should be left open and not boarded; this to allow the air to circulate above the sawdust. It is preferable to have the gables on the east and west ends.

The first ice of the season is always the be and there is with it besides the least risk of hav ing to do without ice.

It should be cut as square as possible. Pack it tightly. Fill the chinks with chipped ice. This prevents the air getting in, and makes it much easier to remove. Leave a space at the sides and ends of about one foot next to the boards, this space to be packed with sawdust after the ice is in, or fill as the ice is packed.

Always keep the sawdust well tramped and examine it every few weeks after the ice is in and see to it that none of the ice is left on top. Do not put sawdust Letween layers of ice, this makes it much harder to get out and the ice is then always dirty.



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Caring for Milk in New York State

"We have all been very much interested in the experiments of Mr. Barr in connection with the preservation of milk, and it seems to me that this question of clean milk is the one which must decide the future of the dairy industry," said Dr. C. A. Publow, of Cornell University, N.Y., in addressing the Dairymen's convention at Belleville last week. "The farmers of Ontario as a rule are doing much toward this end, but in the methods of caring for milk the farmers of New York State are much ahead. In that state one seldom sees an open milk stand located close to a barn yard, hog-pen, whey barrel or road-side. As much or more attention is given to cleanliness to cooling. In other words, we believe in keeping the dirt out of milk altogether; then we do not have to worry about cold or other methods of preservation, because if the dirt once gets in, no method of cooling will ever restore the pureness that has been lost. With this end in view, we find our stables being rapidly cleaned up and whitewashed. The cows and milkers are clean, and not by any means the least is the use of the small top milking pail. Practically every dairyman has his little milk house where milk only is kept, and practically every farmer has a supply of ice or cold water to be used in connection with the Star milk cooler which is now used.

"This is really the strongest feature of dairy work in New York while in Ontario I believe it is the weakest. Apparently New York farmers have been quicker to realize the unequalled value of care and cleanliness in the handling of the raw material in this respect.

"Why should Ontario with the best factories, the best makers and the Lest system of dairy instruction in the world, be behind in this great yet simple detail? How long will our Ontario patrons continue to place the cans of fresh milk upon an open stand close to the roadside where the polluted dust may enter in clouds, or in close proximity to the barn yard, stable, hog pen or whey barrel, all of which give to milk its meanest odors? Why not have a neat covered milk house with convenient cooling facilities, and why not have a clean whitewashed, well lighted and well ventilated stable, and use a milk pail that will keep out at least three-quarters of the contamination? Does not the business deserve it? You and I are not in this business for a day, or a year, but for life, and it will go on after we are gone. Then why shouldn't we get fitted u, to make the best of our greatest industry and the greatest source of maintenance and profit."

Sheep at Our Agricultural Colleges

R. H. Harding, Middlesex Co., Ont. The matter of keeping only a couple of breeds of sheep at our Agricultural Colleges is not in the best interests of the students nor the sloep



"Weed Eaters" on an Ontario Farm

The illustration shows a part of the flock of Shrops, kept by Mr. Geo, Northcott in Durham County. It is generally recognized that those farmers who keep a few sheep experi-ence less trouble than their neighbours without sheep in keeping weeds in check.

breeding industry of Canada. I do not blame anyone for this condition of affairs.

What is the first impression that the student, inexperienced in sheep, is likely to form when he enters the sheep fold at a college for the first time? Is it not that the breeds represented are the principal breeds? I care not what breed or breeds he may find there it is quite natural that he should expect that they were the best.

It has often been said that it is next to impossible to keep a breeding flock in which are representatives of all the mutton breeds on one farm with any degree of success. With this I heartily agree. But is there no other plan that could be worked out so that the students would have an opportunity of studying the characteristics of each breed, so that they could go into

a contest, such as was held a few weeks ago at Chicago among the Agricultural Colleges, upon at least an even footing with the other College teams? This latter alone, would be of great value to this banner sheep breeding ground of North America. It would also be a great help to our professors who are most capable of teaching if we put the material in their hands to teach from.

Allow me to formulate a plan, crude though it may be, whereby the object sought could be gained. We have nine distinct mutton breeds in this province. Suppose each College selects five typical lambs of each breed, either ewes or withers, each year and keeps them until they are yearlings off. This would mean that there would be 90 head in each flock during the part of the year after the first year. Representatives of each breed could be used in the class room for the students' benefit, also for the farmers' short courses in judging and they would be of untold benefit to the many thousand excursionists who visit the Colleges during June.

In order that they might make the best im-pression on excursionists the breeds should be kept separate during June, as all varieties of sheep in one group have a mottled appearance no matter how good the individuals. Ten acres of good pasture fenced into nine parts temporarily would be sufficient for the occasion.

After the yearlings had been used in the class room they could be marketed as seemed best. If ewes were selected they could be sold in time for mating, if wethers, they could be slaughtered at the Winter Fair for comparison (not for competition) or probably it would be better to slaughter a few of each head and keep the remainder for the short course in January and then send them to an abattoir and have them reported upon. The report from the College as to cost of maintenance should be educative as well. Or, the sheep could be slaughtered for the College dining room and thereby would be cultivated an appetite for good wholesome meat that would be a good thing for Ontario.

I have no objection to lessening or to increasing the number of head to be kept as suggested. I would like to have a free and friendly discussion upon the principle laid down, to find out what the farmers. students and professors really think is the best thing to do in this connection.

The Extended Scores of the First Eight Prize Winners in each District in the Dairy Farms Competition DISTRICT No ONE

	A CONTRACTOR OF	DISTRICT	No. ONE				
	House 150	Buildings 150	Live Stock 200 Crops 20	0 Managemen	at 150 Machinery 75 100		
NAMES	Plan and Fluish 25 Fluish 25 Garden 25 Arrangement 30 Sanitation 20 Library, Etc. TOTAL	Provision and Size 25 Location 25 Condition 20 Neatness 20 Convenience Convenience Urbit and Vertilation 25 Y ard 10 TOTAL	Number 40 Quality and Condition 40 Breeding 40 Foultry 15 Horses 30 Burry 15 Burres 30 Burrally 50 Suitability 50 Vielde and Condition 75 Weeds 75	TOTAL Rotation 25 Arrangement of Fields 20 feerand Water 20 feerces, Dit- ches, Roads, efc. 20 Workman-	ship 25 Preservation of Manure 20 Book-kaure 20 Book-kaure 20 Book-kaure 20 20 Supply 25 Chrawter 10 Forskir 15 Forskir 1		
Victor Begg, Moose Creek, J. A. Anderson, Dickinson's Landing Angus Grant, Moose Creek, W. H. Caldwell, Fallowfield, J. E. Caldwell, City View, A. A. McLennan, Lancaster, H. Cumming, Russell W. W. Hicock, Seeley's Bay	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
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E. Terrill. Wooler Jae, R. Anderson, Mountain View Alex, Hume, Menie. G. A. Brethen, Norwood. J. Loeke, Campbellford A. B. Foster, Bloomfield J. A. Caskey, Madoc. J. H. Clare, Chapman	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20 19 16 16 19 18 7 115 18 19 16 14 18 17 7 119	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
DISTRICT No. THREE							
D. Duncan, Don. O. D. Bales, Lansing. D. J. McClure, Churchville. G. Jaithwalle, Goderich. F. Hutton, Hexmpton A. Groh, Preston H. Laird, Don J. McKenneie, Willowdale.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
		DISTRICT	No. FOUR	01.700 - 11			
J. W. Richardson, Caledonia, Richard Ponhalo, St. Thormas- R. H. Harding, Thormale James Pate. Brantford E. Lakilaw & Sons, Aylmer Holiand, Howmaville, Woliand, Howmaville, Woliand, Howmaville, W. C. Shearer, Bright.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		

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Breeder of Choice Holstein-Filesian Cattle. At present I will sell 20 young cows, due to freshen in the early part of the winter, Also a few young bulls. E-11-3-10

For Sate, HOLSTein Bull GAF Born, Dec. 3. Dam's official record as three years old, 486 bhs. of milk and 21 ibs. of butter. Bull calf, born March 18th. Aam Canadian Champion of her age: of Sata rec.rd at two years. 34 ibs. of milk and 20 lbs. of butter.

DAVID CAUGHELL, Yarmouth Centre, Ont

RIVERVIEW HERD

FOR SALE, 2 Bull Caives, sired by Sir Aagrie Beets Begis, son of King Segis, world's greatest 5 year oid sire, dam Aag-gie Lilly Pietertje Paul, champion Jr. 4 year oid-35 ki Dis, butter 7 days. Dam of Caives a 20 b. 2 year oid, and 23 b. 4 Price reasonable considering Presentine. year old

P. J. SALLEY Lachine Rapids, Que. E-10-6-10

LAKEVIEW HOLSTEINS

LAREVIEW HOLSTEINS Rerd headed by Count lengerreid by Kol, son of Pietertio Hengerreid's Gount De Kol, who has five daughters averaging over 30 lbs, butter in 7 days and whose dam (26.30 has in 7 days) has a daughter with a record of over 33 lbs, butter in 7 days in 7 days) has a daughter with a record of over 33 lbs, butter in 7 days. If the size for one y months of down, from this size for one y months of Hamilton Radial close to farm. Visitors met he avgointment. met by appointn E-TF

E. F. OSLER, Bronte, Ont.

HOLSTEINS

SUNNYDALE OFFERS a choice of of young cows and heifers. Lowest prices; best breeding. Can furnish car load.

A. D. FOSTER E-5-5-10 Hallowell Sta., C.O.R.R. Bloomfield, Ont.

LYNDALE HOLSTEINS



sire, he

Head your Herd with a son of Sara Heugerveid Korndyke whose the Sanaka server a strategy and be butter each in 7 days. Only 2 be butter each in 7 days. Only 2 be butter each in 7 days. Only 2 be wons of Count DeKol Petertie Fault and a few sons of Count DeKol Petertie Fault and a few sons of Count DeKol Petertie

BROWN BROS, LYN, ONT. HOME-BRED AND IMPORTED HOLSTEINS

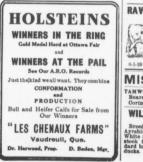


We must sell at least s₂ cows and heifers at once, to make room for the natural lacrease of our berd. This is a chance of a lifetime to get a good bargain; we also have a few young addressed Dektomes. Imp., son of Henderveld Dektomes, burd's greatest herd. Crow and see world's greatest

H. E. GEORGE, CRAMPTON, ONT. Putnam Stn., 1% miles,-C.P.R... E4-21-10

HOLSTEIN CATTLE If you are thinking of buying a choice your goody while an asil, come and see of the second s D. C. FLATT & SON, Millgrove, Ont

L. D. Telephone 2471, Hamilto



AVONDALE HOLSTEINS Offers for sale high class Holsteins, all bless. Herd headed by Prince Hengerveid bless. Herd headed by Prince Hengerveid Lad-out of Prince Hengerveid, a daugh ter of Hengerveid 20 Kol words of 0.44 Us. butter at 33 months. Word of offer some fine young Yorkshire yigs of choice breedins. choice breeding E.T.F ARTHUR C. HARDY, Brockville, Ont

AYRSHIRES

SPRINGBROOK AYRSHIRES

Are large producers of milk, testing high in butter fat. Young stock for sale. Or-ders booked for calves of 1909, male and female. Prices right. Write or oail on - 24-10 W. F. STEPHEN, Huntingdon, Que.

AYRSHIRES. — Record of Performance work a specialty; young bulls from E. of P. cows, and cows that will go on at next freshening. Milk reports of dams, for everything.

JAMES BEGG, Box 88, St. Thomas

"La Bols de la Roches" Stock Farm

Rere are kept the oboicest strains of AYRSHIRES, imported and home bred. VORSHIRES of the best bacon types WHITE ORPINOTON, WHITE WYAN. DOTTES and BARRED ROCK Poulty, MON. L.J. PORDER, J.A. BIBEAU, HON. L. J. FORGET, Proprietor Manager E-5-26-10 Ste Anne de Bellevue, Que.

SPRINGHILL AYRSHIRES Imported ages for sale. Imported and home bred stock of a ages for sale. See our stock at the lead ing shows this fall. Write tor prices.

ROBT. HUNTER & SONS

Maxville, One. E-7-1-10 Long Distance Phone.

SUNNYSIDE AYRSHIRES

Imported and home bred, are of the choicest breeding, of good type and has been selected for production. THRE been selected for production that are "Nether Hall Goods, this fail sted "Nether Hall Goods, the select select as well as a few females of various ag for sale. Write or come and see. I. W. 10028. Mough Station. One and have THREE

J. W. LOGAN, Howick Station, Que ('Phone in house.) 0-5-19-10

FOR SALE—AYRSHIRE BULLS

F.om one month to two years old; all bred from large, good-milking stock. Also Yorkshire pigs. Apply to

DANIEL WATT OR TO HON. W. OWERS, Manager, Proprietor, E-5-19-10 Riverside Farm, Montebello, Que.

STONEHOUSE STOCK FARM

: Is the home of most of the coveted honors at the leading eastern Exhibitions, including first prize old and young herd. FOR SALE a few Choice Young Cows, also Bull Calves.

HECTOR GORDON -9-8-10 HOWICK, QUR.

IMPORTED AYRSHIRES

IMPORTED AYRSHIRES Laving just landed with 60 head of choice Ayrshires, mostly purchased at the great Barcheskie sale. I am prepared to from there for herd heading buils, selected from there is the sale of the sale of the form of the selection. Also show females of all ages. Goves with milk re-cords up to 70 les, per day. Write and let me know your wants. Long distance ploses. Batter of the selection of the selection ploses.



A Great Improvement in Our Dairy Methods

FARM AND DAIRY

(Continued from page 2) The treasurer's manured they could produce double what they do to-day. Farmers some times talk about the richness of the soil when the land was first cleared. The fact is that the farms that have farms that have double double were low years ago. THEY ARE BEATING US

In an exceptionally able address, which was conceded by all who heard which was conceded by all who heard it to have been the feature of the con-vention, Mr. J. H. Grisdale, of the Ex-perimental Farm, Ottawa, while vention, Mr. T. H. Grisdale, of the Ex-perimental Farm, Ottawa, while speaking of the feeding of the dary cow, claimed that it is our own fault that the people of Denmark are beat-ing us in the markets of Great Brit-ain. That they are beating us is shown by the fact that the average production of milk per cow in Den-mark is three or four thousand pounds a year greater than it is in Canada. Mr. C. F. Whitley, Superintendent of the Cow Testing Associations, hore out Mr. Grisdale 'statements.

out Mr. Grisdale's statements. Mr. Grisdale claimed that the rea-son we are not doing better is because well as we might. Our cows should be better fed during the dry summer season as well as during the winter. We ought to feed the cows a better balanced ration. In the growing of our crops more seed should be sown to the acre. No great effort would be required on our part to enable us to revolutionize our dairy methods. We have a great advantage over the Danes, owing to the fact that we are balle to grow corn, whereas they are able to grow corn, whereas they are not. A report of Mr. Grisdale's as well as of Mr. Whitley's addresses on cow testing will be published in full. A WARNING

A WAINING President J. R. Dargavel, who is a member of the Milk Commission ap-pointed last year by the Ontario Gov-ermment, and who has been looking into conditions affecting the produc-tion of milk in both the United States and Canada, sounded a note of warn-ing. "I can assure you," said Mr. Dargavel, "that we are a long way behind where we should be in the pro-duction of milk. We must have a higher ideal and work towards it, or we might as well go out of the buis-ness. I do not wish to forecast what the report of the Milk Commission the report of the Milk Commission will be, but I would be wanting in my duty as your president if I did not warn you now that better things will be expected from everybody engaged in this business than have been in the past.

AHEAD IN NEW YORK STATE

THEAD IN NEW YORK STATE Dr. C. A. Publow, of Cornell Uni-versity, New York, who is the son of Chief Instructor G. G. Publow, of Kingston, stated that while in a num-ber of respects we are ahead of the dairymen of New York State, they are far ahead of us in the care they take of their milk. The great majority of the dairymen in that state keep an ice supply and cool their milk regularly. They milk into small topped pails, and thus help to keep out the dirt. Their milk reaches the factory and cities in much better condition than does the milk produced on our average Ontario farm.

OTHER ADDRESSES

Most of the addresses to which refin full or in part in this, or will be in following issues of Farm and Dairy, January 13, 1910.

elsewhere in this issue, or will be in following issues. TREASURER'S REPORT

The treasurer's report was as fol-

Receipts,

Balance from 1908	3 227	10
Grant from town of Prescott.	100	00
Grant from Leeds and Gren-		
ville	200	00
Untario Government grant	1666	00
Membership fees	161	00
Advts. in official program	175	00
Received in fines for milk		

The addresses delivered at the con-vention were unusually instructive and interesting. Unfortunately time did not admit of their being discussed. A Not admit of their being discussed. A whole session might easily have been spent in the discussion of any one such addresses as those given by Messrs. Grisdale, Barr, Whitley or Singleton.

A feature of the convention was the A reature of the convention was the presentation by Mr. G. E. Henderson, of the Canadian Salt Company, Wind-sor, and by Senator D. Derbyshire of the Canadian Salt Company, Wind-sor, and by Senator D. Derbyshire, to Messrs, James R. Anderson of Mountain View, and Alex. Hume of Menie, of the prizes they won in the Dairy Farms competition conducted by Farm and Dairy. Great praise was giv-en Farm and Dairy for inaugurating such a competition as well as upon its

The retiring president, Mr. J. R. Dargavel, Elgin, who has been con-nected with the association for 17 years, was presented by the officers with a gold headed cane, clock and writing service.

petition conducted last hroughout Eastern Ontario, were anof They are as follows:

One entry, J. W. Duffett, of Adol-phustown, 10 cows, average 6,168 lbs. This is the highest average in any listrict.

-Andrew Henderson, 30 cows, av-

1.—Andrew Henderson, 30 cows, av-erage 5,068 2.5 lbs. 2.—A. M. Ferguson, 21 cows, av-erage 4,826 lbs, District No. 4: One entry. Henry Davidson, Prescott, 14 cows, avarage 4,974 11.44 lbs. D. H. McDernidi, Avonmore, 9 cows, averaged 4,909 lbs.

Dr James W. Robertson has re-signed from the principalship of the Macdonald College, St. Anne de Bellevue, to take up his work on the Commission for the Conservation of the Natural Resources of Canada. He sails on lanuary 37th from that de

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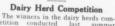
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The total expenditures were \$3817. The total expenditures. The total expenditures were \$3817. The total expenditures were for pro-

secutions for milk adulters were for pro-ing and advertising district ary meetings and directors' expenses.



nounced at the recent convention the association in Belleville. T District No. 1:

District No. 1: 1.-J. Gordon Mann, of Bridge-north, 8 cows averaged 5,981% lbs. per cow, for 6 months. 2.-William Whitten, Menie, 11 cows, average 5,140 4.11 (cover, 11 covs, average 5,140 4.11 (cover, 12 covs, average 5,140 4.11 (cover, 12 4.-William Smith, Lakeport, 8 (cover, average 5,190 4.11 (cover, 12) (cover, 12

4.—William Smith, 1 cows, average 4,4951/2 lbs. Lakeport, 8

District No. 2

District No. 3: Two entries.

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The Feeders' Corner The Sector's Corner The Sector's Corner The Sector's Corner is for the use of therese. All questions or send lemso interest. All questions will receive prompt attention. Horse Feeding Problems in Sector barrow and the sector is a sector barrow and the sector Saskatchewan

Saskachewan We de the county to keep out hores in this not out the county to keep out hores in the second of the

The anti-event of the second s

year if you do not find it possible to grow hay or secure any in your dis-trict you cut a certain part of your out field when the oats are still very green, say just as the oat is in the milk stage, leave in shock till dry and preserve as hay. The horses will act this very much better than they will the dry oat straw, and it will take the place of hay. As to the advisability of feeding the adthorter you should not do it very

As to the advisability of feeding the saltpetter you should not do it very frequently. The dose for a horse is about two tablesponfuls of finaly pow-dered material. Do not heap the spoonfuls, but fill a little more than levelful.

levelful. An occasional dose of raw huseed oil, say a pint about once a week would do your horses good and h.¹p keep them right as well as make them do better on the feed you are giving them...J. H. Grisdale, Agriculturist, C.E.F., Ottawa.

Feeds for Beef Cattle

recas for Beel Cattle Could you tell may the properties in which is mix the following feeds for beef cattlet I have straw-good wheat and out-plenty of chop-mixed wheat, can and barley. I thought you have the straw and court is the proper-land of four hubble straw, it basels for own ary one bushel of the mixture three times a day with maal or own ary one bushel of the mixture three times a day with maal or given me the proportions in which is feed to get the best results. -H.K. Thou many straw of the straw

Ge. Get. The mixture of roughage properties of the advisable to feed some-sorn and two of pulped turnips might prove satisfactory depending on how the straw was measured. It is very easy to make a bushel of cut straw weigh three or four times as much at one time as at another by the same at one time as at another by the same at one time as at another by the same at one time as at another by the same at one time as at another by the same at one time as a many by the description of the protection of aheep from dogs. The same are the same and the protection of aheep from dogs. The same are the same and the protection of the about the same also be taken up by the Association in the near future.

The meal had better be fed sprink-led on the roughage. If the feed is prepared a day or two ahead and does not become moderately damp before feeding it would be well to sprinkle

feeding it would be well to sprinkle a few gallons of water over the straw, etc., when mixing. Grind the grain finely. Feed twice a good results may be anticipated and less labor necessary.—J. H. Gris-deb dale.

Ration for Cows in B. C.

Will you achieve a how to feed for profit from the following available foods. Tim-othy hay, S20 a ton: second crop (poor), at \$10; while carrots and red beets, \$10 a ton; bran, \$20; oat and barley chop, \$33 a ton; shorts, \$32 a ton; middlings, \$24 a ton; swate cabbage free, and some pasture until anow comes. Cows are stabled an inith all time but



of what Farm and Dairy can do for the advertiser. Read be-low. We can do the same for von :

Messrs. Farm and Dairy : Dear Sirs,-

Dear Sirs,— For the past two years we have occasionally used your pa-per for advertising our Feed and Litter Carriers, Cow Stalls, and Hay Tools, and particular-ly for the past year we have been impressed with its value are been pleased to notice We was been pleased to notice. ly that every advertisement is bringing its results. You can understand, therefore, that we wish to continue advertising with you.

We might also say that we have appreciated the courteous treatment we have received from

Wou. We are, yours very truly, THE LOUDEN MACHINERY CO. Per H. Ralph Steele, Sales Manager.

fed in the morning a little poor hay, and let out to pasture and help themselves to cabbages, turnip tops and water. At night a little good hay, one gill bran and two quarts chop each daily-C. E. W., Kelowna, B. O.

For cows producing milk as you in-dicate yours are doing, I would sug-gest the following as a suitable ra-tion :---



Write Circulation Department

FARM AND DAIRY

PETERBORO - ONT.

7

HORTICULTURE Pruning Peaches and Apples

J. O. Duke, Essex Co., Ont.

In my opinion fruit grovers will have to change their ideas of pruning in order to meet the changed conditions. The old idea of thinning out the centre of the trees to let the sunlight in has resulted in many orchards, apple especially, becoming too tall for the care that a tree now has to receive.

to receive: My methods are very different from those usually advocat:1 and I am reasonally successful in getting good crops of good fruit and have healthy trees. Instead of heading back young peach trees, as is always recommended by horticulturists, I let them grow, just pruning enough to keep the young tree well balanced and to correct excessive growth in any one direction but after the tree gets as is or eight years old I begin to heat back. When peach trees have attained

When peach trees have attained a size that necessitates a ladder in picking the fruit, I begin to prune and keep the fruit producing wood close to the ground. Keep the trees low down so they can be readily aprayed without any great derrick to get at the topmost branches. I find my trees are hardy and I have a good sample of fruit from trees handled thus.

I am applying this same principle to apple trees, thinning out from the top and leaving those limbs in the centre of the tree that are usually removed. I find that my trees are bearing a good crop throughout the tree and not on the outside which is usually the case with apples. The fruit that is grown in the in.

The fruit that is grown in the interior of the tree is not so liable to blow off as if it were allowed to grow on long branches and the tree is more easily sprayed and the fruit more easily picked.

Winter-Killing of Swollan Buds

W. T. Macoun, Central Experimental Farm, Ottawa

During the latter part of winter when the sum is beginning to get strong and when some days are quite warm there is often a premature swelling of Luds, especially of the cherry, plum and peach. This warm spell may be followed by cold weather and there may be several such changes before spring. The buds being swollen and more or less active are more abject to injury from frost and changes than the dormant buds and the result is that they are killed. Great injury is often caused in the peach districts by the killing of swollen buds, and in the province of Quebe injury to the buds of plums and cherry is no doubt done when they are in this condition.

They are in this condition. It was thought that if the ground could be kept frozen about the trees it as a present the buds from avelin an innetive condition, but is here the see a proved over and over a sin that this has no effect whatever in dolaying the swelling of the buds. The ccpanding of the will develop while the roots may yet be in a frozen condition. There is sufficient sap in the tree to supply the buds and even the tree to supply the buds and even the tree to supply the budts and even the tree to supply the budts and even the tree to supply the budts and even the tree is high enough, growth Legins.

Swelling of buds can be prevented by bending over the trees as suggested (in a previous issue) to prevent killing of dormant buds, but this could not very well be done on a large scale.

A few years ago experiments were conducted at the Missouri Station to determine if whitewashing the trees would retard the huds, the principle being used that whito surfaces do not absorb heat as readily as darker ones. It was found that the whitewashing did retard the buds and in the case of peaches would sometimes prevent injury from frost. An experiment was tried at Ottawa in whitewashing plums and cherries, and it was found that it retarded the swelling of the buds. This means of prevention is not, however, a very practicable one as it is difficult to get the whitewash to cover the tranches well for a long period. After further investigations that the retardent wells was found that the retardent wells was found that the of variety was found that the of variety was found that the high est colored trigs required higher temperatures to cause them to swell than those with darker colored twigs, and the former suffered less from killing than the latter. Not having in these lighter-twigged varieties the kinds of paches required for commercial purposes the Missouri Station is now at work breeding good varieties with light colored twigs.

A New Disease of the Apple

Benjamin W. Douglass, the entomologist of Indiana, makes the following excellent suggestions on spraying

ing excent suggestions on spraying intermets in every community will band together to buy a power sprayer it will mean better fruit and better prices. There are a great many new diseases to cause apprehension, but as often as new disease appears a way to combat it can be found, so that on the whole there is nothing to be discouraged about. Every farmer I think, knows that if a good crop of fruit is to be expected, he must give his tree some attention.

There is to be expected, he must give the source of the source of the source of the source of the inspectors secured specimens of apples which were disfigured by a curious and uncommon disease. The first specimens sont in resembled to a certain extent early stages of the apple scab, but a microscope examination and further study recaled that we had a new disease of the apple-mew, at least, to Indiana horticulturists.

The diseast, to Indiana norticulturists. "The disease first makes its appearance on the fruit in the shape of small, light brown blotches which consist of lines running from a common centre in a radiant fashion, like the spokes of a wheel. The entire spot has the effect of having been splattered or splashed upon the apple. The size varies. As a rule the blotch seems larger on red varieties than on the yellow ones, though frequently a spot will increase in size if the apple is kept in storage. As the discase progresses the blotch will become sunken and will eventually crack, exposing the flesh of the fruit to a considerable extent.

sincronie extent. "The disease is a fungous disease and like most of that type is best combatted by spraying with the Bordeaux mixture. Four spraying are recommended, the first one three or four weeks after the petals have failen, the secon: A two weeks later, and the third and fourth at intervals of three weeks. Siccess will, of course, depend upon the thoroughness with which it is done."

Spraying Trees and Cost of Outfits

Many enquiries in regard to the lime-sulphur wash, the kind of spraying apparatus to use and cost of the same have been sent to the Pennsylvania Department of Agriculture. The following reply by Professor H. A. Surface, state zoologist, will be of interest to avery person owning fruit trees, whether few or many :--"You can either make your own lime-sulphur solution and destroy the

"You can either make your own lime-sulphur solution and destroy the scale by its use, making this material by boiling together the lime and auplur, or you can buy it ready made in the concentrated form, ready to dilute with eight times its bulk of water, and spray on the trees and kill the scale. It is cheaper to make it, Lut where you have onl- a few trees, it is more troublesome. Eithed form will kill the scale if applied strong enough and neither will hurt the trees if applied at any strength whatever. The home-boiled limescilphur is made by boiling four pounds of sulphur (either flowers or flour) with five and one-haif pounds of quick lime, and water enough to boil them, and afterward add enough water to make the total bulk not more than twelve galloms. Strain this well. The straining is very important. Clog-

Pins His Faith To It

I am much interested in Farm and Dairy. It is great. I pin my faith to it and follow it in every way that I can.-C. E. Bent, Cumberland Co., N.S.

ging of nozzles and sloppy work is generally due to lack of proper straining. The best way to strain is to use brass wire cloth thirty meshes to the inch, setting it at an angle across the funnel, or built as a cone with the point standing upright in the strainer funnel. "Spray the lime-sulbury wash (eith-

"Spray the lime-sulphur wash (either home-made or commercial) directly over the trees at any time after the leaves are off, giving them two good coats, one from each side. Take advantage of an opposite wind to spray the opposite side of the tree. Repeat this in the spring when the bads are aveiling, where demons in "You can buy of more demons in the spring of the tree."

"You can buy of most seedsmen inexpensive spraying apparatus. For such trees as you have at present a complete outs, costing not more than five do ars, would serve the purpose. New all manufacturers of spraying material make these small



58 Wellington St., MONTREAL

is desirable to mention the name of this publication when writing to advertisera

and cheaper sprayers, which are generally in the form of hand sprayers, bucket sprayers, compresed art tanks or knapsack sprayers. The highest price that they should cost should not be more than ten dollars, and from some manufacturers a cheap outfit can be bought for one-third this smount. Every person growing even a few trees and shrubs should have his own spraying apparatus of the size and power adapted to his needs.

needs. "You can not expect to keep your trees free from scale by preventive means: The point is to origit them when they are infested, and thus keep the scale under control. There is really no need of spraying for scale at a time when it is not present. "A. quantity of the lime-sulphur _outtion to be prepared, as given above, is for the owner of a few trees. In regular orchard work, it is preferable to never make less than a 50-gallon quantity at one time, when the proportions of materials used are 17 lbs. of sulphur and 22 lbs. of lime, boiled together as stated above. One hour of therough boiling is necessary."

I have been a planter of trees ance 1864 when I planter of trees ance 1864 when I planted an orchard on my father's farm. The following year I planted forest trees for a windbreak and I have planted trees of some kind every year since. These are a benefit and a blessing to others as well as to myself...W. J. Stevenson, Ontario Co., Ont.

One of the heaviest shipments of vegetables that were over sent from Newcastle, Ont., was last fail forwarded to Toronto, when 80,000 enhanges raised by Mr. Harry Douglas on three acress of land was forwarded to a Toronto firm. The crop realized some \$600.

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************************* POULTRY YARD

What Grains to Feed

reflat Ustains to refea What grain can I feed to my hens with profit this year? I can get oats and buckwheat, but no wheat. There is a car of corn coming in at \$1.40 per 100 (he. Can I do better than that? Can corn and wheat screenings be obtained, and how much more would you pay for the whole grain than for the screen-ings?

Corn at \$1.40 is reasonable, pro-viding it is good corn, and I think for the winter this should make a good proportion of your feed. We fare huying buckwheat at \$1.25 a ewt., which at that price is cheap, and we are feeding considerable of it. Our feed wheat costs \$1.75 in Montreal, use of the state of feed wheat costs \$1.75 in Montreal, and I have on that account not fed as much of it as usual. I do not know where you can get corn and wheat screenings. I have never been able to buy any of it with satisfac-tion.—F.C.E.

Feeding Value of Sunflower Seeds

Tell me what is the feeding value of sunflower seed, and how best to feed same, whole or ground, and amount to feed?-J. H., Halton Co., Ont.

feed-J. H., Haiton Co., Ont. Sunflower seed is a very valuable food for poultry, especially at moult-ing time. Corn has 10.4 parts pro-tein in 100; sunflower has 13 parts and wheat, 11.9; buckwheat, 10. The sunflowers are also very rich in car-bohydrates and fat, and if you have much of the sunflower seed it would be well to mix it with the other grains. If you are feeding a mixed dry mash in a hopper you might put grains. If you are feeding a mixed dry mash in a hopper you might put in about 10 per cent. of ground sun-flower, or ic can be fed whole with the other grains in the litter. Hens are very fond of it, either way. If you mix it with your grain ration you mixing the gradient of the conmight put in one-quarter to one-sixth of it.-F.C.E.

Dressed Poultry at Ottawa

Among the special prizes for poultry the Live Stock and Poultry Show at to be held at Ottawa, January 17th to 21st, is \$10.00 for best case of 12 to 21st, is \$10.00 for best case of 12 fatted cockersis as per select grade, P.P.A., donated by Poultry Produc-ers' Association of Eastern Canada; \$10 for best collection of dressed poultry donated by Poultry Yards of Canada, Limited, Pembroke. Goods value \$5 for second best collection of dressed noultr-

well fieshed, and of superior finish and appearance, unbroken skin, with-out blemish, straight breast bone, and neatly packed in packages that hold one dozen birds; the package hold one dozen birds; the package shall be made after the plan recom-mended by the Department of Agri-culture and illustrated in bulletin No. 7. One package shall include only birds of a uniform size and col-or of flesh and legs.

> Men should look for this

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FARM AND DAIRY

The package referred to is a case made of $\frac{1}{2}$ inch to $\frac{1}{2}$ inch basewood or spruce. For chicks weighing from $3\frac{1}{4}$ to 4 pounds each the boxes should be inside measurement $23\frac{1}{2}$ inches x $10\frac{1}{4}$ inches $x \frac{1}{4}$. For chicks weigh-ing from 4 to $4\frac{1}{2}$ pounds it will be necessary to have the boxes $24\frac{1}{4}$ x $17\frac{1}{4}$ $x \frac{4}{4}$ inches and larger birds $17\frac{1}{4}$ $x \frac{4}{4}$ pounds to $3\frac{1}{2}$ or 6 pound the bases should be $29\frac{1}{4}$ x18 $x \frac{1}{4}$ inches and hold be $29\frac{1}{4}$ x18 $x \frac{1}{4}$ inches

The month, then way product to 20^{-6} with a set of the set of the 20^{-6} with a set of the 20^{-6} with a set of the set of the 20^{-6} with a set of the set of the

Poultry at the Amherst Fair

As usual, the politry department at the Maritime Winter Fair drew the crowd, and well it might. There were about 1,000 birds cooped; the quality was good, and in some classes the competition was decidedly keen. In the open classes, judged by A. C. Smith, Waltham, Mass., the Barred Belss and White Thymittes were and dressed poultry, where I had the work of nulacing the awards, con-Rocks and White Wyandottes were best represented. The utility classes and dressed poultry, where I had the work of placing the awards, con-tained some good birds. The White Wyandottes took the lead, the Barred Rocks and B. Orpingtons also making strong classes. The utility classes were shown in pairs and pens. The cockerel and the pullets were shown separately. The showing in pairs, however, is not fair, for either the judge or the exhibitor. As an illus-tration of how it nets, the best cock-erel in the Barred Rock class was not placed at all, as his mate was a very placed at all, as his mate was a very inferior specimen. This was also the case in the White Wyandottes. The turkeys were a good showing, the geese and ducks fair. The dressed poultry was not as

geese and ducks fair. The dressed poultry was not as large an exhibit as has been shown, but the quality was up to the mark. The entire exhibit was bought by Mr. Henry Gatehouse of Montreal. In Henry Gatehouse of Montreal. In the drossed exhibit a very interest-ing feature was the judging contest. The women of Amherst and vicinity, who are members of the Hospital Aid, provide meals for the fair visitors and do noble work at the fair. By this affect they raise about \$1000 their efforts they raise about \$1,000 each year for the hospital. Every each year for the hospital. Every year there has been given a handsome silver service to the woman who can place most correctly three chickens, three turkeys, three ducks, and three geese. Each contestant must give reasons for the placing of the chick-ens, etc. This year three prizes were also given to women who were not members of the society. Some of the judging was very close, and showed that the women of Amherst were bo-coming expert in judging dressed that the women of Amherst were be-coming expert in judging dressed poultry. The first place in the mem-bers' contest was awarded to Mrs. Alice Christie, of Amherst. In the non-member class the three prizes were won by --lst, Miss Arkinson, an automobile coat; 2nd, Mrs. Wheat, an automobile coat; 2nd, Mrs. Wheat, set of tishes --F. C. Eltord, Macdon-ald Colleace. Que. ald College, Que.



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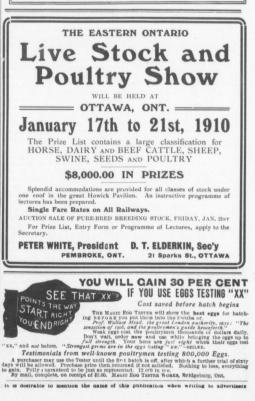


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FARM AND DAIRY AND RURAL HOME

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OUR PROTECTIVE POLICY

mailed free on request. OUR PROTECTIVE POLICY We want the readers of Parm and barry to feel that they can deal with our vertiseris reliability. We try to admit to our columns only the most reliable ad-vertisers, should any suborities have ment he receives from any of our adver-tiers, we will investigate the eircum-stances fully. Should we find reason to will discontinue inmediates the pro-will discontinue inmediates the pro-will discontinue inmediates the pro-tinue of the statements whold the tiers of their evertisements. Should the tiers of their evertisements who in the will discontinue inmediates the pro-tinue of the statements who in the bar of the statements who is the bar of the statement in the statement will discontinue inmediates the pro-tions of the statements who is the bar of the statement in the statement of the statement is the statement is the statement of the statement is the statement of the statement is of the statement of the statement is possible after reason for desails who is a sone of the statement is the statement of the statement is possible after reason for the statement reason for the statement is the statement is a statement of the statement is possible after reason for the statement of the statement is the statement is the statement is a statement of the statement is possible after reason for the statement of the statement is a statement is a statement is the statement is a statement i

FARM AND DAIRY PETERBORO, ONT.

DEMAND JUSTICE FOR RICH CREAM

It has been shown that the practice of using the pipette, for making the Babcock test as followed largely in creameries, is wrong. Dairy authorities and creamery instructors have for years preached for a richer cream. Yet it is generally conceded that the patron who sends rich cream is the loser, that his cream does not get justice, save where the scales-not the pipette-are used in measuring the samples for the Babcock test.

Creamery men have been aware for years of the error made in the test where the pipette is used. Some of them have resented efforts to inform patrons on this question. The truth has come out, however, and now many patrons realize that their rich cream does not get justice with the pipette and as a result they have not sought to produce rich cream, rather the reverse.

The question has reached that point where it is a matter of which the Government should take notice. Several of the States in the American union have passed laws seeking to enforce the accurate determination of the amount of fat in cream. These appear to have worked out to the benefit of the business.

FARM AND DAIRY

We know that the weighing of samples of cream gives more accurate results than using the pipette. This fact alone is sufficient reason why the weighing method should be used. Patrons would do well to demand that the scales Le used, rather than the pipette, when their cream is tested. Since the experience of those men who have used the scales is that where a proper balance is used, it is not really any more difficult to weigh the samples than to measure them with the pipette, and a rich cream, when properly tested, is directly in the interests of all concerned in the creamery business, as such, rich cream should be encouraged. The creamery adopting the scales, however, is bound to suffer in competition with the creamery using the pipette, hence the need of considering the adoption of legislation on this point that would require all to adopt the use of the scales in making the Babcock test. We can easily have too much legislation. There are certain matters however, as the history of our dairy industry proves, concerning which wise legislation affords the only means of improvement.

SAVE ALL WOOD ASHES

The ash dealer who makes his rounds through the country bartering soap for ashes should not be encouraged. Ashes that are valuable to him, would be worth much more on the farm whereon they were produced. Unleached wood ashes contain a large percentage of potash. This potash furthermore is in a soluble form and, t erefore, quite available to plant roots. Wood ashes contain anywhere from five to ten per cent. of potash; perhaps an average of ten per cent. Many farmers do not recognize the value of this fertilizer, else they would never allow it to be wasted, as is often the case, or to be sold from the farm.

Experiments conducted by the Ontario Agricultural College have shown that an application of potash to the soil has given marked beneficial results. Various authorities on agricultural chemistry recommend wood ashes as one of the chief correctives for soil acidity. Several experiments at the Ontario Agricultural College have shown wood ashes to almost double the crop on swamp lands.

Besides the potash contained, good wood ashes will also contain from one to two per cent. of phosphoric acid, which is also of great value, particularly as this constituent influences the maturity of the plant and the production of seed or grain. Lime is also a constituent of wood ashes, the percentage of which will vary, but, per haps, on an average, wood ashes will contain somewhere about ten per cent. The market price for potash and phosphoric acid is about five cents a pound. From these figures, anyone may estimate fairly closely the value per bushel of wood ashes. It is readily apparent that it is highly desirable that wood ashes should be retained on the farm.

enormous quantities of valuable wood ashes that are annually gathered and exported from this country. While much is exported, probably as great a quantity is wasted. We should recognize the cash value of wood ashes to the farm, and take all precautions to preserve and apply them where they will produce the best results.

THE CHEESE MAKERS' WAGES

Dairy Commissioner Ruddick sounded a timely note of warning in his address at the Eastern Ontario Dairymen's Convention in Belleville last week, when he drew attention to the fact that a large proportion of the cheese and buttermakers, after a few years' work, drift into some other occupation that offers greater attractions. It is a distinct loss to the dairy industry that a large number of experienced men should leave the business each year. It is in the best interests of the business as Farm and Dairy has repeatedly pointed out to retain these men.

There is no gainsaying the fact that cheesemakers have received a remuneration short of what their capabilities and responsibilities would receive in some other business making equal demands upon them. As Mr. Ruddick says, there is no good reason why a business that has been so prosperous and has done so much for the country should not offer sufficient inducement to a larger number of men so that they will make it a life's work.

INSTRUCTION IS APPRECIATED

The marked success of the annual cheese factory meetings throughout the counties of Peterloro and Victoria which were addressed by Mr. Geo. H. Barr, who gave his illustrated talk on "The Care of Milk for Cheese Making," emphasizes the fact that the annual meeting is the place where instruction can best be given to patrons. A decided improvement was noted in the milk supply from those districts this past year where Mr. Barr gave this lecture the year before.

Our dairy industry will greatly profit through the continuance and the extension of this means of imparting information to the men who produce the milk. Factory proprietors, cheese makers and those who are directly interested in the condition of the milk as supplied at their factories should put forth efforts seeking to have appropriate instruction given at their next annual meeting.

The dairy instructors may well use their influence towards having expert lecturers for their annual factory meetings, as Mr. D. J. Cameron, the instructor for the Lindsay group, did last year towards having Mr. Barr at the annual meetings of factories in that district. That this form of instruction is popular is well shown from the fact that in spite of unfavorable weather at the time the meetings were held in the Lindsay district, the attendance at any one meeting was not less than 40 and reached upwards of 75. It is safe to predict

Our soils cannot afford to lose the imparted to the patrons at these meetings will be evident next year in the improved quality of the output from these factories.

The Value of an Idea (The Globe)

A forty-acre orchard, w.th 1,200 winter apple trees in it, has just been sold in the township of Woodhouse, county of Norfolk, for \$17,000. Eighteen years ago it changed hands for \$2,750, ten years ago for \$4,500, and six years ago for \$10,000. The purchaser who bought it at \$17,000 was Mr. James E. Johnson, Manager of the Norfolk Fruit-growers' Association, and he credits himself with having got a bargain. The increased value is in a large measure owing to the operations of the Association of which Mr. Johnson is the Manager.

The members of the Association re cently received their checks for the season's crop, and reports of returns run in some cases as high as \$300 an acre. One case is mentioned of a grower in Charlotteville who has thirty-five trees. Until the establishment of the Association the trees were regarded as practically valueless, but this year he has a check for \$360 for the product of thirty-five trees which had hitherto been regarded as merely ornamental.

And this has all arisen from an idea, the only thing that counts in this world. Some man had the idea that the apple-growing business in Norfolk county could be made much more remunerative if it were better organized and conducted on more scientific lines. As a result of that man's thought the apple-bearing lands of a whole county become greatly appreciated in value, and the bank accounts of many persons grow in consequence. Nor should we lose sight of the greater satisfaction which the intelligent prosecution of one's calling brings to whoever undertakes to learn and apply.

Agricultural Pessimists (Kemptville Advance)

The pessimist is a pest wherever you find him. He never did nor never will do any industry or business any good. He is a clog on the wheels of progress, pulling back when "go ahead" is the only thing to do. There are pessimists in Canada; men who profess to be leaders in the field. Everything they say or write is saturated with a pestiferous pessimism that knocks the bottom out of the thing they intend to help. Above all other callings Canadian agriculture has no room for the pessimist. Grievances the farmer has, to be sure, many of them. They never will or can be righted by the pessimist. Nothing can be accomplished by belittling the cause one represents. It is the fellow who extols his calling and shows its importance to the community who gains the ear of the governments when there are grievances to be remedied. Let us get rid of the pessimist in Canadian agriculture. There is an effective way of doing it. Sit on him good and hard when he begins to upwards of 75. It is safe to predict exploit his pessimistic ideas before that the influence of the information the public. Give him to understand

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that neither he nor his vicious teaching is wanted. He will soon find his level, which is at the foot of the procession that is making for progress and prosperity.

Reeeeeeeeeeeeeeeeeeee Creamery Department The second secon

Errors in Cream Testing

J. F. Singleton, Kingston, Ont. J. r. Singleton, Aingaton, Yok. Many patrons of creameries are there dissatisfied with the business, or indistenent to it. The dissatisfac-tion is largely over the testing of the cream and this is a problem which creamerymen must consider before long. In fact the trouble has become quite acute in some sections and one Wither prominent creameryman has said that this is the most difficult problem with which creamerymen have to deal.

There is no uniformity among the There is no uniformity among the different reameries in methods of testing. Some use the 17.6 c.c. pipette and do not rinse it after taking the sample; others rinse it after taking the sample and add the rinse water to the test bottle; others use the 18 c.e. pipette either rinsed or not. None concernents the scales to ward the c.e. pipete einer rinsed or not. None are using the scales to weigh the sample. The difference between using a 17.6 c.c. pipette not rinsed and an 18 c.c. pipette rinsed, with the rinse water added to the test bottle, will make a marked difference in the read-ing of the same sample of erram. ing of the same sample of cream. TWO EVILS

This lack of uniformity, and this inaccuracy in testing has two evils.

inccuracy in testing has two evils. First, a correct comparison cannot be made between the price per pound of fat paid at different creameries, and secondly, any method of testing by means of a pipette will not do instice to the different patrons. The creamery using the 17.6 c.c. pipette and not rinsing it does not credit the patrons with all the fat they deliver, consequently a higher over-run is obtained and an abor-mally and fictitiously high average price per pound of fat is paid. The neighboring creamery may be using an 18 c.c. pipette and rinsing it after 18 c.c. pipette and rinsing it after taking the sample. The over-run is not so high, neither is the price per not so high, neither is the price per pound of fat, but the partons get as much money, other things being equal, in that they are credited with more faction among patrons of both eream-eries, in the first creamery over the lowness of the test, and in the se-cond creamery over the lowness of the

TEST BASED ON WEIGHTS

THET BASED ON WEIGHTS The Babcock test is based on weights and it is simply for convenience that we use a pipette in testing milk. Milk is fairly constant in weight so we can use the pipette in testing milk and get accurate results. But with cream we have an entirely different proposition, for it may vary in fat content from 11 por cent. to 50 per cent. or even higher. As fat is the lightest constituent of cream, the more fat cream contains the less will a given volume of cream weigh. This explains the inaccuracy of any pipetto in testing cream. An 18 cc, pi-petto in testing cream. An 18 cc, pi-petto rinsed and the rinae water add-ed to the test bottle, will with a 27 per cent. cream deliver the corract weight into the test bottle. As the percentage of fat increases the sample becomes lighter and the test is too decreases, the sample becomes too heavy, giving too high a test. This simply means that where a pipette is used in doing the testing, the man stor all the fat ha sends, while the F.O.D.A. for an address delivered at the explains the inaccuracy of any pi pette in testing cream. An 18 c.c. pi * Extract from an address delivered at the E.O.D.A. Convention in Belleville last week.

man sending cream containing less fat than 27 per cent. will get paid for more fat than he sends, and the greater the extremes the greater will the error be.

PREMIUM ON THIN CREAM

the error be. PREMUM ON THIN CREAM The patron is advised by creamrey men and instructors to get the test up somewhere between 30 per cent. and 35 per cent. and this has many advantages, yet the testing is done in such a way as to put a premium on low testing cream. The remedy for this is to use the scales and weight each patron will get paid for what he cends. The use of the scales in cream testing will do away with much of the friction with and dissatisfaction among creamery patrons. The sampling is usually quite ac-creamery. The samples should be warmed up occasionally and the pre-servative mixed with the fresh creamer. They should at the creamer. They should also be kept well occked for il fet unorked, mois-tiph. This has no ing the test to high. This has no ing one cent.

Export Cream to United States J. A. Ruddick, Dairy Commissioner, Ottawa

The export of cream to the United The export of cream to the United States, made possible by the reduction of the duty to five cents a gallon under the new tariff as against the former duty of two cents a pound, de-serves special mention, for here we have a real menace to our cheese trade us for as it effects the volume of the have a real menace to our cheese trade as far as it affects the volume of the exports. Every gallon of crean that is exported, under present conditions in our export dairy trade, practically means just that much less cheese for export, and the indications are that proportions. The figures are available only up to the end of November, but they show a surprisingly rand growth. Month by month they are as follows,— August, 16,509 lbs.; SeptemLer, 121,602 lbs.; October 390,993 lbs.;

November, 700,599 lbs.; total 1,229-703 lbs.

It seems quite probable that the to-tal shipments up to the end of the year will not be less than 2,000,000 year will not be less than 2,000,000 pounds of cream. As this cream is made very rich and averages over 40 per cent. fat, it represents somewhere about 1,000,000 pounds of butter. How long this may continue I do not know. Well informed people in the United States, with whom I have dis-cussed the matter, say the tariff will not be changed during the term of

*Extract from an address delivered at the E.O.D.A. at Belleville last week.

Subscriptions to be taken at \$1.00 each in both cases.

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the present administration. It must be dealt with by Congress, and I un-derstand that there is great reluc-tance to having the tariff question pened up. I do not see that the producers

I do not see that the producers need worry over the matter so long as they receive good prices for the cream, but there is one feature of this development which is to be re-gretted. I refer to the closing of cheese factories and creameries by the purchase of cream direct from the farmers. The owners of these factors farmers. The owners of these factor-ies will lose both their business and their investment and when the time comes, as it most likely will, sooner or later, the disorganization that has occurred will be awkward.

A Successful Year

11

The Sidney Cheese and Butter Fac-tory, Limited, has closed a very suc-cessful year. Milk received was 3,tory, Limited, has closed a very suc-cessful year. Milk received was 3, 198,800 lbs., the cheese made was 209,800 lbs., -27.86 per standard yield \$10.90. The company is now putting in cold storage. They pasteurize the whey. With these added improve-ments, the factory stands second to none in the Province. Bay Side paid \$27.00 and Acme, another factory in the west, we un-derstand paid \$27.70. These three factories make up the milk of the three front concessions of Sidney township, Hastings Co., Ont. -J.K. Baraw accur athereful a pair.

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÷ d ************************ **Cheese Department** Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest subjects for discussion. Address letters to The Cheese Maker's Department. ***********************

Is the Canadian Cheese Trade in danger?*

J A. Ruddick, Dairy Commissioner. If we were to judge of this matter by the comments which have appeared If by the comments which have appeared in the press during the last year or so, we might readily come to the con-cluson that the Canadian cheese trade was in a serious danger of being wiped out. "Canada is Losing Her Cheese Trade," "The Cheese Industry a Declining One," "A Great Change has come over the export cheese trade of Canada within the next for ware of Canada within the past few years, owing to the competition which has sprung up from New Zealand," "The only hope for Canadian cheese in the British market lies in the possibility of New Zealand turning to the manu-facture of butter." These are some of the headlines and phrases that have appeared in the Canadian press dur-

appeared in the Canadian press dur-ing the past year. Personally, I do not share these pessimistic rivers. Not a single box of Canadian cheese has been displaced on the Old Country market by New Zealand cheese. As a matter of fact, the increase in New Zealand ship-ments is wholly a result of the de-crease in Canadian shipments and not the cause of that decrease. I am personally familiar with the situation not the cause of that decrasse. I am personally familiar with the situation in New Zealand and I speak with confidence on that point. Had it not been for the failing off in the Can-adian exports, which resulted in a higher relative price for cheese as compared with butter, and thus en-couraged the New Zealand factories New Zealand shipmotts of New Zealand shipmotts of New Zealand shipmotts of the new would have shown very little increase during the last five versa. The Dairy during the last five years. The Dairy Commissioner for New Zealand appre-ciates the situation when, referring ciates the situation when, referring to the decrease in Canadian shipments in his last annual report, he winds up with the statement, "It falls to New Zealand's lot to supply to the home market this shortage in Canadian exports.

A COMPARISON OF EXPORTS

A COMPARISON OF EXPORTS In 1904, the Canadian exports reached the maximum, in round fig-ures, of 233,000,000 pounds. In 1900, the quantity exported was 164,000,000 pounds, or a decrease of 60,000,000 pounds, an a decrease of 60,000,000 periods, and 1900, the New Zealand baving been little. 30 pounds, there having been little. 30 pounds, there 00 the exports from New Zealand to 90 the exports from New Zealand to Great Britain had risen to 37,000,000 pounds, an increase of 28,000,000 Great Britain had risen to 37,000,000 pounds, an increase of 25,000,000 pounds. It sounds big and rather alarming to say that the new Zeal-and shipments have been quadrupled in four of the increase is consider-ably less than half the decrease in the sampments from Canada. It will be simple to the the total of the imports of check that the total of an inform both countries is now suffer-by 42,000,000 pounds than it was in 1904. It is difficult to see where there is, any serious menace to the Canis any serious menace to the Can-adian cheese trade in these figures. adian cheese trade in these figures. It is worthy of note also that the increase in Canadian shipments for the season of 1000 over those of 1008 will probably be greater than the in-crease in the shipments from New Zealand for the same period and yet which the same period and yet which the same period and yet which the same period and yet and the same period same has been harped on contain the the sta-te state of the same period same has been harped on contain the state the tra-

I do not mean to say that the in-creased shipments from New Zealand ket, if the Canadian shipments had *Part of an address delivered at the E. D. A. Convention in Belleville last

would have had no effect on the marbeen maintained at their maximum. But then, as I have already pointed out, if the Canadian shipments had been maintained, New Zealand ship-ments would not have shown any increase

If there is any menace to the Can-lian cheese trade in the New Zeaadian adian cheese trade in the New Zea-land shipments it is not in the mere volume of these shipments, but in cer-tain qualities which the cheese pos-sess and some other things which I shall refer to later. Over-production alone, with the inevitable lower scale of the word which lower scale atoms, with the inevitable lower scale of prices, would work its own cure, for in that event the New Zealand output would at once decline and be replaced by butter. There are other aspects of the situation, howreplaced by butter. There are other aspects of the situation, how-ever, which should give us more con-cern. We must not overlook the sen-timental effect of a new supply on the market and when the supply pre-sents such features as the New Zea-land cheese does at present, it offers refers to the sentiment of the sentiment of the sentiment of the sentiment of the Let me right source sentiment.

Let me give you a calculation which may serve the purpose of impressing you with the magnitude of the indus you with the magnitude of the induce try in which you are engaged. I have computed the total value of our ex-ports of butter and cheese from 1880 up to the end of last fiscal year and 1 find that they total 8350.707.012 for cheese and \$62.309.331 for butter. If we add to these sums the home con-sumption of milk, butter and cheese for the same period at \$10 a head, we have the unthinkable amount of \$1. 885.089.703. Now, just think, if you can, of the enormous volume of milk which has been produ-at 0 to be worth call, of the enormous volumme of milk which has been produced to be worth that much money, at \$1 per 100 hs. It would make a lake approximately eight miles long, one mile wide and 15 feet deep; and it would supply you stream 10 feet wide and one foot deep. running at the rate of three miles an hour, for two years and two months.

Report of Instruction, Eastern Ontario⁴

G. G. Publow, Kingston, Ont.

The total output of checks from May lst to Nov. 1st, was 90,170,874 lbs., the average amount of milk required to make a pound of cheese being 10.76 lbs. This is an increase of 4,360,965 108. This is an increase of 4,000,000 lbs. for the six months from 6,000 cows less than last year, which at the average selling price of cheese for the season amounts to \$697,754.35.

The testing of milk for adulteration as conducted by the instructors; 41,412 samples were tested by lacto-meter and Babcock tests, and of this number 141 gave indications of having been tampered with. After a thor-ough investigation had been made 107 cases were handed over to be dealt with Ly the official prosecutors engag-ed by the E.O.D.A.

CONVICTIONS FOR ADULTERATION

Convictions were obtained in all eases and fines were imposed on the convicted parties of from \$5 to \$50 and costs, amounting in all to \$2,405. \$50 of this amount 1,207 was paid over to the treasurer of the E.O.D.A. and \$1,197,66 to the treasurers of fac-tories in which the offences were committed

The number of factories paying for The number of factories paying for the milk according to test is only 86 or one less than last season. It is very gratifying to note the

continued improvement in the factory buildings and surroundings. Of the buildings and surroundings. Of the 300 factories under my supervision, 844 were kept in a good sanitary condition throughout the sesson. The fout smelling, dilapidated buildings, which used to be so common, will eridently soon be things of the past, eridently soon be the base of the source of the source improvement making the re-guired improvement making the re-source of the source of the sour as the profi will warrant.

Twenty-seven new factories were *Part of the report of the Chief Dairy Instructor and Sanitary Inspector, as de-livered in Belleville last week.

built this season and 493 made improvements in buildings or plant. The estimated expenditure including new buildings, amounted to \$136,542.00 which is \$5.847.00 more than the amount expended last year in this way way.

FACTORY IMPROVEMENTS

The weakest point in the factories, as a rule is the lack of good facilities for controlling the temperature of the curing rooms throughout the different that the patrons will soon come to realize the Lenefits to be derived from having a uniform low temperature for the curing of their cheese, and that they will co-operate with the manufacturers in providing the proper facilities

ties. The manufacture of butter from the whey is on the increase. The num-ber of factories engaged in it this year was 119 as compared with 63 last year. The yield of butter showed a wide variation of from three and a wide variation of from three and a too of whey, the increased yield he-ing obtained when the milk was de-livered in an over-rise and gasey Ing obtained when the mine was use livered in an over-ripe and gasay condition. The great bulk of this butter, is used by the factory pa-trons, the price paid being about the same as for creamery butter. The majority of patrons express themselves built of the well waited with the as being fairly well satisfied with the quality.

PASTEURIZING WHEV

The number of factories that prac-tise the pasteurizing of whey has in-creased, there being 63 doing so, as compared with 26 last season. When the whey is to be returned to the farms in the cans in which the milk as been delivered to the factory, pashas been delivered to the factory, pas-teurizing, when properly done has much to commend it. There are many benefits to be derived from it. The is returned in a much sweeter whey condition, there is a more even dis-tribution of the fat, the cans are much more easily cleaned, and it pre-vents whey tanks at the factory becoming the seeding centre for many undesirable fermentations. It has also been proven to be one of the best methods we have tried for keeping the whey tanks in a more sanitary condi-

The average quality of the che has has been of an exceptionally high standard, and although the makers met with a good deal of difficulty, fewer rejections were reported than in any previous year. The most comhere rejections were reported to the most com-in any previous year. The most com-mon delects in the cheese complained of were openness of make and flavor not clean. Very few complaints were made regarding acidy cheese, and the improvement in this respect here very marked. Some com-ting the flav and the improvement in this respect has been very marked. Some com-plaints were made regarding the fin-ish and the inequality in the size of the cheese. While the average maker has made a marked improvement in this respect, we have still too many who do not exercise sufficient care regarding the appearance and uni-formity in the size of their cheese, and this defect is not excusable as it is entirely under the control of the maker





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THE most precious things in the world are those which cannot be bought-the tender touch of a little child's fingers, the light of a woman's eyes, and the love in a woman's heart.

"A MAN'S CASTLE"

By Emily Calvin Blake included from last week)

CO the next evening at the first op-S⁰ the next evening at the first opportunity, Leonard put the ques-stor to his wife, and waited ans. Must would Helen say? But

iously for her answer. "But, Len, dear," she protested, "But, Len, dear," she protested, Mother and Father would be so lone-ly if we came upstairs after dinner. y if we came upstairs after dinner. And Mother is so sensitive, and she might think that we did not care for her company." All resistance seemed to leave the husbard. He did not attempt to

argue. "Very well," he assented listlessly

"just as you please." Helen came and sat on the arm of

his chair, leaning her head lovingly against his.

against his. " area noringly "Dear boy," she said; "don't we owe something to others?" "Indeed we do, Helen," he answer-ed promptly, "Lut I want you all alone."

A puzzled frown lay between Helen's as she replied : eyes

"Now you want me all alone," she echoed; "when we are married!" Leonard gave a quick, impatient

sigh

"I cannot discuss it with you, Hel-en," he confessed, "because I don't quite understand the situation or my quite understand the situation or my own longings. I was perfectly willing to live here with your parents for the first year, but—" "Aren't my parents good to you?" inquired Helen softy. "They are," the young man admit.

they are, the young man admit-ted; "but sometimes I want to feel that I am everything to you as you are to me. Don't you understand that, little girl?"

leaving her." Suddenly Leonard sat up and, tak-ing the girl's hand, looked earnestly at her.

"If your Mother is everything to "On Lone, Len," the girl cried, a sob catching at her throat, "how can you ask such a question? You know that I love you." If a mount Leonard was all con-

In a moment Leonard was all con in a moment Leonard was all con-trition. He too kher fondly into his arms and stroked her hair. "There, there, Helen, we'll not talk of it any more," he promised. "I am selfish."

home. What would fielen say: but Helen was asleep with a little smile on her lips, and just as he entered the room the white haired mother emerged therefrom. She held up a warning finger.

"Be very quiet, Len," she muruaur-ed. "Helen does not sleep soundly up-on first going to bed. I've just tuck-ed her in."

ed her in." A muttered imprecation rose to Leonard's lips. Not one word from wife or mother regarding his absence. True, he had telephoned that he would not be there for dinner, but that was no reason for them to con-clude that he would remain all even-

I have been receiving Farm and Dairy for several weeks past and I regard it as an admirably edited paper and a weekly reporter of interesting matter and profit to all in the community .- Rev. J

ing. With unhappiness tugging at her hat she looked wonderingly at his bewildered heart, he retired. The next day Helen telephoned to "I, am very sorry that you feel this him

"Shall you be at home to-night, Len?" she asked. "If so, be prepared to go to a box party with the Herberts

"That's the first I've heard of a box party," Len growled. "I didn't think of it before," Hel-en admitted, sweetly, "but if you'd rather not go..."

rather not go-" 'Leonard answered abruptly; "I'm sorry," he added somewhat contritely.

"It doesn't matter at all," Helen assured him, innocently; "Mother is going

assured him, innocently; "Mother is going." "'A hope that you'll enjoy yourself." 'I' hope that you'll enjoy yourself." He hung up the receiver and turn-ed to his glesk. What was the end to be, he wondered. Helen seemingly had no need of him. That was the secret, he believed, bittery. Then a resolution formed quickly in his mind. Nearly a year had elapsed since his marriage. He would broach the subject of a home of their own. His face big htemsets to dis-pel the gloony ones. How wonderful it would seem. Hel-en walking to the station to, meet

of it any more," he promised. "I am selfah." as melfah." and the the the intervent of the serve to sat. He would be also to the station to meet be and yet the talk did not serve to sat. The serve to sat. It he intervent the intervent of the serve to sat. And, seen the intervitable happened. And, seen the intervitable happened. And, seen the intervitable happened. Leonard became a frequent visitor at the dub. The first might be word by load the base to serve the sat. He would be glad to have thele in the intervitable happened. A the dub. The first might be word by load the base to serve the serve to serve the base to serve the serve the base to serve to serve the base to serve to serve to serve to serve th

insist upon a lamp in the sitting-room. Helen would ait on one side of it and he on the other. He would read his paper and perhaps Helen would sew. He had never seen her new he new remembered would sew. sew, he now remembered

Dearest of all was the thought that she would come to him for everything. That she might ask his opinion and consult his wishes.

consult his wishes. Unconsciously he found himself whistling, and he felt happier than he had since his marriage. That night he waited impatiently until Helen returned from the theatre. He remained in their room until she was unstation. He is the heat heat the came upstairs. He had learned to wince when the mother advised him not to talk too long to Helen as she was sleepy, or to be careful that she was warmly covered. He felt that alone he could see to all that. Did

alone he could see to all that. Did not the girl belong to him? Hastily he put the crowding thoughts from him as his wife entered the door. She came in, a vision in fairy white. "'Oh, Len, "she exclaimed. "You are at home! I am so tired!"

"Are you, sweetheart?" he answer-ed lovingly. "Let me loosen your coat." She came to him and held her face

up while he fumbled with the hook. Then, when the fastening fell apart, Len lifted the dimpled chin of his wife and looked longingly into her

eyes. "You are tired, little girl, I know," he commenced; "but I can't wait. Helen, the year is nearly up. Shall we go to a home of our own?" He waited breathlessly for her an-

swer. Helen drew away petulantly. "Oh, Len," she protested; "not yet: I am so happy here with Mother. And she would grieve so." "Very well," Leonard answered, at once; then he added hastily: "I was a fool forever consenting to live here." Helen's face pakd, but she did not speak at once. Then as she removed

P. Black, Peterborough, Co., Ont.

him. "I am very sorry that you feel this way," she finally said; "it is some-thing I cannot understand." He did not reply and in unbroken silence they retired. From that time the breach daily widened. Club life claimed Leonard's widenes. entire attention, and Helen, though at times very pale and quiet, still continued her unceasing round of gaiety. Then one day Leonard overheard a

conversation which quickened his de-sire to change domestic affairs as they now stood. The firm he represented desired to send a man to another state

desired to send a man to another state to open new offices. "We would offer the position to Reynolds," Leonard heard the presi-dent say; "but his mother is ill." Almost without thought, Leonard made up his mind to ask for this position. He would have spoken then, but the chance did not present itself. He felt confident that the po-sition would be given to him should be desire it. he desire it. As usual he spent the evening at

the club. It was after midnight when he arrived home.

Contrary to the usual custom, Helen was not asleep when her husband came in. She sat near the lamp in

abrupt announcement

"I am going away!" Helen let her eyes seek his for a cond before replying. "Permanently?" then she asked.

A peculiar expression crossed the man's face. "I think so-I hope so," he said. "Oh, Leonard," the mother spoke:

" tunns so-1 hope so," he said. "Oh, Locorad," the mother space. "why do you say that? Are you not happy here? And you would not take Helen away?" "No," he assented with a short laugh: "Helen would not care to go with me. I shall leave her-with you."

you." "When do you go?" Helen's tones were calm, yet they set the man on

edge. "As soon as I can arrange," he answered without looking at her. His brain seemed bursting with the many thoughts that surged madly through thoughts that surged madly unrougn him. The old question rose upper-most. What was it all about, any-way? What had begun it? The mother looked from one young face to the other. She too, could not understand. Had they not treated because a sup?

understand. Had they not treated Leonard as a on? Suddenly the man turned away. "I'm tired," he said, "good night." Helen put down her book. "It is late," she admitted; "I think I'll retire too." She went swiftly to her mother, and kissed her lovingly on each check. "Come upstairs, dear," she request-ed, softly; "I don't want you to stay down here alone." The mother put the girl's elinging arms gently from her.

"Go with Len, Helen," she said quietly; "I'll sit here for a little while."

quetty; "111 st here for a little while." Helen lingered for a moment, then followed her husband. Left alone, the mother accende to be able to grasp Lut one thought. Her daughter was to be separated from her husband! Tears rose to her eyes; then her mind went back to the early years of her married life. She and her hus-band had been poor; they had lived in four small rooms, yet they had lived in furpy. She, therefore, possessed no experience to guide her and show her that the year of adjustment should be spent alone. Then, motherhood with its train of

Then, motherhood with its train of Then, motherhood with its train of blessings had come to her. How hap-py she had been. She had had no helper of any kind. But it had been joy ineffable when she and her hus-band had dressed the child together; when he, in loving helpfulness, had wiped the dishes and perhaps dust-ed the ornaments in that little king-dom of their own.

The words echoed in her heart: "the little kingdom of their own!" Where she had reigned mistress and he master! A sharp pang smote her. She had unwittingly placed her finger on the trouble here. Then the tears fell the trouble here. Then the tears fell upon her thin hands. How blind and selfash she had been. Her child had missed the beautiful mest-building time; she had missed the joy that comes to the wife who builds with her husband. Greatest of all, she had missed the beauty of self-sac-rifice. The white head fell forward and her dim eyes looked into the future. To her had come the lesson. To her now belonged the duty of teaching Helen.

Suddenly she arose and walked across the room. Above the lamp hung the picture of Helen as a baby. The mother looked up at it through her tears.

"My baby," she murmured; "my little girl. And now I must give you

up. She put forth her hand as if to take and caress the litle pictured figure before her. This tiny life was hers. God had given it to her. But the next thought caught and held her in its sharpness.

Why had the child been given to her? To keep, to love, and, alas, some day to give into the charge of another

Then, at once, the motherhood that dwelt within her, ennobled her. Re-solutely she turned from the picture. Her duty lay straight before her and she would not shirk it. One last, lingering look she gave to the baby Helen. Then, quietly mounting the stairs, she passed down the long hall leading to her daughter's room. She knocked with a steady hand. Helen answered

room. She knocked with a steady hand. Helen answered. The mother turned the handle of the door and pushed it gently. Her eyes followed the dim light till ahe discerned the figure of her daughter seated near the window. Leonard

was not there. "He is in the spare-room," Helen vouchsafed the information dully. She did not seem surprised to see

She did not seem surprised to see her mother. An apathy seemed to have fallen upon her. She was grop-ing dully among the facts which she could summon to her aid. One thought only stood out clearly. Leoning dully among the her aid. Une could summon to her aid. Une thought only stood out clearly. Leon-thought only stood out clearly. He had not

thought only stood out clearly. Leon-ard was going away. He had not asked her to go with him, and she knew that she could not go if he had. Something in her mother's face ar-rested her attention. The light that lay in her dear eyes, the smile that transfigured her sweet lips, touched transfigured her sweet lips, touched Helen keenly. "Has anything happened, Mother?"

"Has anything happened, Mother?" she asked. "Yes, Helen, something has hap-pened." the mother replied. Then she drew the girl to a seat on the wide couch, and folded the slight figure to here it. Learned ", he

"You must go with Leonard," she began. "No, do not draw away, little girl." She paused. "I have cheated you out of too much happiness."

"I can't understand, Mother-" she id, just as she had spoken to her bias husband.

hushand. "You will not understand, Helen," the mother's voice trembled and caught in her words, "you will not understand until you have risen to the height of sacrifice. When you have worked for Len, when you have ahared his troubles, then you will understand." isonal istenset

understand." The girl listened intently. "I have learned my lesson late," the mother continued, "Lut not too late. You shall go with your hus-band and take your place at his side. No, do not think of me," she went on, as Helen protested; "think of him." BOME BANDY DEVICES Four years ago we purchased a refrigorator (as we always put in fce for dairy purposes) and we have found nothing which saves so many trips up and down cellar. We have always nice solid butter and cool, sweet milk for the table in the hot-test of weather. him

test or weather. We have the refrigerator placed just outside the kitchen door on the north veranda, where it is cool and shaded. The water in the waste pan we use for watering the out-door

on, as Helen protested; "think or him." "Are you willing to let me go-" Helen asked wistfully. "I am anxious to have you go," the mother answered bravely. "Do not refuse, dearest, for I am sending. The door opened suddenly. Leonard stood on the threshold. At sight of the two women. his face hardened into bitter lines. Why was the moth-er here? Could she then so easily take his place? Then his eyes caught and rested on Helen's white face. She leaned forward as if to beckon to him. At once, he went to her, urged by something within him. The great love that he bore here came for-ward and found utterance in hasty ""An."" "An."" plants. The main part of the house is heat-ed with a wood furnace, which has been most satisfactory. It takes a pail of water a day in the water-bas-in. This moisture keeps house plants in good healthy growing condition. The floors in dining room, hall, of-face and stairs are hardwood stained, without rook, with a stay borders. The double parlors are papered with painted ceilings to match, rugs on the floor with hardwood stained borders. UT+TATABE ROOMS word

'Helen," he cried, "I've thought ti all out. I have been cruel and sel-fish. Can you forgive me? We shall stay here and you shall do as you please. That empty room in there has taught me that nothing matters a shadw are together? floor with hardwood stained borders. UP-TATARS ROOMS UP-stains the bedroom floors are stained and we use ruce, a shap are easily lifted and the floors washed. The walls are painted in dainty light colors with borders to match. We change the colors every two years and add new borders. Our rooms are always bright, clean, fresh and saniso that we are together." Helen leaned forward, impelled by

the birth of something within her heart

neart. "Listen, dear boy." she whispered, softly. "Mother has opened my eves. They are not wide awake yet," she finished laughingly, yet with a treacherous sob in her throat, "but Mother says..." tary THE BATHROOM "Our bathroom is 7 x 13, and has one window overlooking the back yard. It is situated near the centre of the second floor. The walls are painted, and a light oilcloth covers the floor

FARM AND DAIRY

begin life together now in your own little home." Leonard caught her hand in his, with the instinct that is sometimes given to man, he caught the tremb-time requires the source of the tremb-time requires th

Our house was built seventeen years ago. We have always kept it in good repair. Everything was arranged and planned for at the time of Luiding. Thus it does not need any improving in ventilation, heat-ing, lighting, sani-

tation, water sup-ply, etc. I will begin with the kitchen which is small compared with the other part of the house. This room is right in line with dining room. We find the china closet between kitchen and dining room and opening out into dining room and opening out into both, a great con-venience. We have a splendid supply of both hot and cold soft-water heated by a large boiler con-nected to our kit-

chen range. We have also a large supply of good hard water in the kit-chen. This is forced up in a tank over-head by the wind-mill. All three taps

plants.

SOME HANDY DEVICES

min. An once tags are over the kitchen sink and when it, as it saves many steps in cases of they overflow, the soft water runs back into the cistern, and the hard water flushes out the sink. We have a cement walk two feet

We have a cement walk two feet wide from the barn to the house, wide from the barn to the house, which saves bringing in of a great deal of dust, etc. We also have co-ment walks three feet to four and five feet all around the house. Hetween the walks up to the house steps, are the flower beds. We took more pains I think was better attended to and kept in better order than previous years.

OUR FRUIT ORCHARD

years. Our fruit and vegetable garden is at the back of our house and is pro-tected on two sides by a high codar hedge. It is laid out in rows so that much of the labor can he done with horse cultivator. We have a variety of all small fruits, suitable for growing on our soil and have al-ways an abundant supply of fresh fruit in season for the table and can-ning for winter use. Our vegetable garden is arranged and worked the same way. Our orchard is mostly winter fruit with a few solect vari-eties of harvest and fall fruit. <u>REMINON MATTER</u>

READING MATTER As to educational features we have As to educational features we have coming in our home overy week, a daily paper, a semi-weekly, four church papers, two ladies' journals, three children's magazines; our own local papers and the three best agri-cultural papers, including Farm and Dairy, which is fast filling a place in the farm home and should be tak-dairyman. Expectally is the Hous-hold Department of Farm and Dairy including the Unward Look, of inter-

she finished laughingly, yet with a treacherous sob in her threat, "Our bathroom is 7 x 13. and has hold Department of Farm and Dairy Mother says." Mother says..." He looked up wonderingly as she of the second floor. The walls are the centre of the second floor. The walls are the east and value to both young and old. A snew FarURE man who answered the look in his the floor. The mater is submitted from a tank the floor says." "Mother says," she murmured, tak, ing up her daughter's words; "Mother says and is placed over one end is placed over one end in the sate in the bathroom and the back hall.

January 13, 1910.

large enough and so arranged that it can be used either as a single or double house. This.we hope will, to a great extent desen our labor with the farm help in our home. ...

Storing of Groceries

Storing of Croceries Flour comes packed both in bar-rels and in bags, and the form in which it shall be purchased and kept is of importance to the housewife. Bags have certain advantage over the Larrel for both producer and con-sumer; they pack into freight earsy wird's bags costs less than the bar-rel for the consumer, also, it is often convenient to buy in small quantitage. But, on the other hand, the 'yes is too often very filmsy in textice, but to othe ussily solid by contact with a damp or dirty floor. The purchaser may well results the producted from dust and dirt. Aside, from accidental contamina-

This the contents may be proceeded from dust and dirt. Aside from accidental contamina-tion, the chief destructive agencies in stored flour and similar materials are fungi and bacteria. The fungi or molds break down chiefly the starches of the flour, forming organic acids which make the flour sour. The various prepared or "self-rais-ing" flours are more expensive than the mixture that the housewife can easily make by adding the requisite amount of baking powder to flour and sifting it several times. It is a con-venience and a saving of time to keep venience and a saving of time to keep this mixture on hand, as one sifting provides enough for a month's use in cakes and muffins.

The fact that many breakfast cer-The fact that many breakfast cer-eals that were once sold only in bulk can be lought in packages is a great advantage from a sanitary point of view. The contents of these packages, if bought fresh and if well cared for, will remain in good condition for such goods have had little chance for contamination from dust and dirt.

... Have you forgotten to renew your subscription to Farm and Dairy?



T



No more tired arms and aching back when churning, when you get your "Favorite" Churn. You can churn by hand, by foot

You can churn by hand, by foot or both. Easiest running churn you ever saw. Easy to clean, Churns best quality of butter. Bearings-tight cover. 8 sizes, to churn from ½ to 30 gallons of crean. "Champion" High Speed is the new Momentum Balance Wheel Hyperclassic season and the men write we have maximut a seas. - St MART, sen

DAVID MAXWELL & SONS. - ST. MARY'S. ONT.



Prize Winning Home, owned by J. W. Richardson, Haldimand Co., Ont. Some of the features regarding this home and how they as sisted in making it one of the prize farms, are set forth in the article in this issue by Mrs. Richardson.



117 Design for Embroidering Sprays or Forget-Me-Nota Suitable for a lingeric waist or for any bject for which small flowers are ap-oppriate. Patterns for eleven sprays and propriate. In flowers are given. object

propriate. ten separate flowers are give , 2° * &.

446 Design for Embroidering a Bound Yoke, Collar and Sleeves of a Blouse or Princess Gown. The flowers, ribbons and dots are de-sined to be worked in solid embroidery, or the ribbon and dots in solid embroid-ery, the flowers as eyelets.

they to with 34 35 * 28th . 18 . 44 18 ·*·*·* 4.4. 465 Design for Embroidering a High Turned-Over Collar and Cuffs.

457 Design for Embroidering a Cushion Cover or Pillow Top 17 inches sq.

...

Cet one of our Fountain Pens.

1

If ye, being evil, know how to give

If ye, being evil, know how to give good gifts unto your children, how much more shall your heavenly Fath-er give the Holy Spirit to them that ask Him.—Luke 11.13. When we ask God for the gift of His Holy Spirit it does not matter how earnestly we ask, or how much we may long for it, if the motive which prompts us is not a worthy one. God reads our minds, and knows our thoughts better than we do ourselves. The devil is terribly ingenious and de-ceitful in the devices he adopts to The diff is terriby increasives. The diff is terriby increasions and de-secomplish or divices he along to ecomplish designs with which along to be righteous motives. That is why we are told that "The heart is decigi-ful above all things, and desperatoly wicked, who can know it? I, the Lord, search the heart, I try discretions wicked, who can know it? I, the Lord, search the heart, I try discretions with the search of the search of the loss of the search of the search of the operation of the search of the search of the operation of the search of the search of the operation of the search of the search of the search of his doing so the three operations of the search of the search operator of the search of th

to God. We should ask ourselves ear-nestly why we desire it. "One of the subtlest and most dangerous snares into which Satan leads us, is that where we are seeking the Holy Spir-it, this most solenn of all gifts, for our own ends." A minister who desires the gift of the Hole Spitt earth the mean seek

A minister who desires the gift of the Holy Spirit so that he may con-vert a large number of people in or-der that the church membership may be increased and the church become a larger and more prosperous one than some others, as well as the man than some others, as well as the man than some others, as well as the man that we have a start of the source of the admire the piety and influence of His life, are both acting from unworks. It in order that others may see and admire the piety and influence of His life, are both acting from unworthy motives. God will not listen to them. Our one and only desire must be the unit of the transformation of the bordied by and not that God will be the willing and have do. We must be willing and have do. We must be willing and the we do. We must be willing and both is and for the reason God does not answer their prayers. If we find that our desires are unworthy ones then we should ask God to forzive us the thoughts of our hearts and to enable us to see how we need it for His glory, so that we will desire it for that end. We must be willing to act merely as the channel through which God's spirit shall flow. There is still another step that we must take. This will be dis-cussed next week.--I. H. N.

...

Α

House cats are known to have had diphtheria and to have communicated it to children.

Embroidery Designs The Upward Look THE COOK'S CORNER The Upward Look Patterns 10 each. Order by number and size. If for children, give are; for adults, give bust morsure for waists, and waist measure for skirts. Address all orders to the Pattern Department. Recipes for publication are requested. Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy, Peterboro, Ont. 10000

****************************** Our New Cook Book free for only

two new subscriptions.

BAKED MUTTON

TARED SUCTOR Cut the chops from a shoulder of mutton, heat 2 tablespoonful, of fat taken from the top of a bowl of stock, and saute it in an onion, slied thin, then the chops. Put them into a cov-ered baking dish upon a bed of chop-ped turnips, carrots, onion and cel-ery; rimse the frying-pan with a cup-ful of stock and pour over the chops. Cover closely and cook about 1½ hrs., then turn the chops and season with not above previously cut in quarters, and parboiled in salted water. Add more broth, if necessary; cover close-ly, and cook 30 minutes, or until tender. Remove the cover, brown nicely and serve at once in the dish in which they were cooked.

COFFEE BLANC-MANCE

Heat 1% cupfuls coffee in a double boiler and add a pinch of salt. Beat an egg very light in a bowl, and to it add the following ingredients, least-ing thoroughly; % cupful milk, 6 tablespoonfuls sugar, and 2 table-spoonfuls corre-starch. Stir slowly inspoonfuls corn-starch. Stir slowly in-to the hot coffee and cook until it thickens. Pour into individual molds, and serve very cold, with whipped or plain cream flavored with vanilla.

BREAD PUDDING

To 1 qt sweet milk add 2 cups fine, dry breaderumbs, yolks of 3 eggs, y cup sugar, and 1 tablesp butter. Soak the crumbs in the milk for ½ hour, then stir in leaten yolks, butter and sugar, and flavor with a teasp leanon sugar, and flavor with a teasp lemon extract or $\frac{1}{2}$ teasp grated nutmeg, and $\frac{1}{2}$ teasp salt. Stir all well to-gether. Bake in a moderate oven until custard is set, or about $\frac{1}{2}$ hour. When done, spread over the top a meringue made of the whites of 3 eggs beaten stiff with 3 tablesp sugar, and flavor to taste. Return to oven and brown lightly.

FRENCH FRIED POTATOES

Pare the potatoes and throw into ice water for at least an hour. Cut in slices, blocks, balls or any fancy shape and dry them on a towel. Drop quick ly into hot fat and brown, skim into a draining basket and put in the oven to keep warm until ready to serve.

I have found that most ginger cook-ies are better if the dough is allowed to stand a little while before baking.



of ribbon yds

sleeves. Material required for medium size (6 yrs) is $4/_4$ yds 24 or 27, $3/_2$ yds 32 or $2/_4$ yds 44 in wide with $3/_4$ yds insertion, $2/_2$

The pattern is cut for girls of 2, 4, 6 nd 8 yrs., and will be mailed on reand 8 yrs., of 10 ceipt of ets

WORK APRON 6537

A protective apron like this is needed by every woman whose occupation or pleas-ure may mean soil to ure may mean soil to the gown. Checked linen with bands of white makes the one elliustrated but ging-hams and all simi-lar sturdy materials ar appropriate. for medium size is by yds 26 in wide, with bands. soil to

bands.

bands. The pattern is cut in 3 sizes, small 32 or 34, medium 36 or 38, large 40 or 42 in bust, and will be mailed to any ad-dress on receipt of 10 ets 10 cts.

waists with trim-ming portions of con-trasting material are pretty and attrac-tive. It includes the

MISSES' WAIST 6532 Waists with trim-

narrow deep chemis-ette and can be made either with or with-out the sleeve puffs.

vds 32.

1 /1 A 10

out the sleeve puffs. The waist is made with a fitted lining, which is optional. It is tucked becoming-ly and the trimming portion is arranged over it. Material required for the lf we size for Material required for the 16 yr size is 2% yds 24 in wide with ½ yd of and % yd for chemisette and deep

silk The pattern is cut for girls of 14 and 16 yrs., and will be mailed on receipt of 10 cts.

SURPLICE WAIST 6457

Surplice waists are among latest developments. This one is graceful and will be found adapted to all the pretty soft ma-terials that are to be much worn th's

Material required Material required for medium size is 5¹/₄ yds 21 or 24, 4¹/₄ yds 32 or 2⁴/₄ yds 44 in wide, with ³/₆ yd 18 in wide for the yo⁵ e and soutache to make as illustrat-ed: $3\frac{1}{2}$ yds 21 or 24, $2\frac{1}{3}$ yds 32, $1\frac{1}{4}$ yds 44 in wide to make with plain sleeves and

centre portions. pattern is cut for a 32, 34, 36, 38 in bust, and will be mailed on re-Th 36, 38 and 40 in bust, ceipt of 10 cts.

N



Our 10-piece Toilet Set is made of absolutely the best grade English semi-porcelain ware. All pieces are large, full size. The decoration con-sists of will forwers, prettilly entwined with foliane. We can furnish it in dark blue, pink or peacock blue. Given for 5 new yearly subscriptions to Farm and Dairy. Slop Jars, with cane handle, to match above set for 2 additional subscriptions. Address:

in the set

CIRCULATION DEPT. FARM AND DAIRY PETERBORO, ONT.



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iC d

Dairy Farms Competition

R. R. Ness, Judge in the Eastern Districts

I have just finished a very pleasant I have just finished a very pleasant second tour of inspection of those farms of Eastern Ontario, that were entered in the competion conducted by Farm and Dairy to determine the best dairy farms. There was in many cases a showing of improvement in care and handling stock in winter quarters over summer conditions. In most cases I found good, spacious barns, fairly vell lighted; much im-provement, however, could be made along this line.

VENTILATION

Vestilation In most of the barns examined some plan of ventilation was used, and m a few cases good lessons were to be learned from the plans in use. There is much room, however, for more im-provement in this matter of ventil-tion in most -tables Light and result. provement in this matter of ventil-tion in most stables. Light and ventil-ation are very essential things in keeping healthy herds of cows, par-ticularly dairy cows. While endea-vouring to have the stable comfort-able for their cows many are apt to close up the stables and force above close up the stables and forget about ventilating.

Watering systems of various plans are to be found in most of the barns, thus adding to the comforts of the cows; and this is one of the comforts that should be in every stable, whe-

FARM AND DAIRY

ther turning cattle out for exercise is practised or not SILOS

The silo has now become one of the main buildings on the farm of al-most every dairy farmer, as well it should be; those who have not al-ready a silo contemplate building one ready a silo contemplate building one as soon as they can. With sliage, a little grain, comfortable, convenient, well-lighted stabling, and the cream-ery, the dairyman can make today a good profit on his cover, after the cheese season is over. At the same time, through extra feeding, where all year dairying is practised the cover

all-year dairying is practised the cows are in very much better condition to start work in the Spring. After all, notwithstanding breeds, feed plays its part in making a suc-cess of any breed, and in giving a profit to the dairyman or the feeder. profit to the dairyman or the recorr. In too few cases was summer feeding practised. There is a profit to be had by feeding a little grain all the year round, and when July and August, with their day natures and fine error with their dry pastures and flies come along, we should increase the grain, and feed something in the line of green feed.

HOUSES

I was pleased to find some of the houses with modern fixings, and with all the conveniences of a city house. More of this kind of thing should be found on the farm. The greatest draw-back to dairy farming to-day is the

comparative impossibility of getting hired help for the house work. This being so, let every farmer spend a being so, let every farmer spend a few dollars in making the house con-veniences the best that can be. These things can be installed at no great cost compared with the world of com-fort they give.

The Dairy Farms Competition awak. ened enthusiasm for better work. It is certain that there is no better It is certain that there is no better way of stirring farmers up to im-prove, beautify and keep their farms and homes in better condition, and to making the farm home more en-thing for the young people, than by making the farm competition. Some of those competition.

were competing, were not aware of the competing, were not aware of the competition until it was too late to compete, and quite as good farms as those competing often were to be seen in driving through some sections. I would entreat farmers to take hold and compete, and make a little spe cial effort to win out in competitions of this kind. They will improve con-ditions at home, and help the com-munity at learner. munity at large.

Report of Instruction, Eastern Ontario

(Continued from page 12)

appearance of permanency about them and the improvements made in the various ways go to show that they feel confident that the future of the industry warrants the expenditure made.

Industry warrants the expenditure made. Among the patrons we find equally the conjug results. Driving through the conjug results. Driving through the conjug results. Driving the term tice the great in expenditure have been made for a better housing have been made for a better housing the past that these improvements are being made with a view to specializ-ing in the production of dary pro-ducts. As an evidence of this, during the past summer alone 1,070 slios were erected, and I doubt if there were ever so many new stands, with fa-cilities for cooling the milk, erected in one season. Greater attention is being given also to the selection and In one season. Greater attention is being given also to the selection and care of the dairy herds and every-thing points to an increase of inter-est and further improvements on the part of those who furnish the raw material.

Dairying in Alberta, 1909

C. Marker, Dairy Commissioner From a climatic point of view the first half of the past summer season was very favorable to dairy opera-tions. Frequent showers and warm tions. Frequent snowers and warm weather kept the pastures in fine growing condition. In fact, up to the middle of July it looked as though the dairy production for the season would reach, if not exceed, that of 1906, the largest in the history of the Province. After the latter part of 1906, the largest in the history of the Province. After the latter part of July, however, the rainfall became very light indeed and, as a conse-quence, the bright warm weather dried up the pastures much earlier than usual causing a heavy shrinkage in the milk yield weak by weak. The farmers who had the foresight and good judgment to provide green succulent feed to help out their pas-tures kept their cows in good flow of milk and reaped their reward in the higher prices that they received for the sutter during the latter part of the season.

the season. On the other hand, the majority still depend almost entirely upon the native pastures for the sustenance of their dairy cows during the summer, and have to be satisfied with not only a shorter milking season but also with a smaller revenue from their dairy because the great bulk of their pro-duction is of necessity put upon the market when prices are lowest. A demand for better dairy stock has become evident. Several local brace ers of dairy cattle have during the past year shipped into the Pro-

January 13, 1910.

vince from eastern Canada several car loads of Ayrshires, Jerseys and Holsteins which they have afterwards disposed of by auction or by private sale at comparatively good figures. Now that this movement has commen-ed it would annear that we have here Now that this movement has commen-ced it would appear that we have here a promising market for not only the local breeders of dairy cattle Lut al-so for the breeders in eastern Canada who may be looking for an outlet for their surplus stock

where we beside in easily a consider Canada before we beside in a solute for their surplus stack.⁶ In this connection I may add that the Provincial Government set aside this year α sum of \$1,000 to be used for the purpose of assisting farmers to bring in pure bred dairy cattle from the eastern province. The pur-chaser makes his own terms for pay-ment. When a sufficient number of animals to make up a car load hav animals to prove the solution of Apri-tion of the purchaser at the uniform rate of \$5.00 a head.

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

A FINE CHEESE and whey butter fac-tory for sale or to rent. Apply to R. Metzler, Odessa, Ont.

FOR SALE.-Up-to-date cheese factory plant in first-class condition. Capacity twenty cheese daily. or full particulars address Box 55, Farm and Dairy.

BARRED ROCKS.-Winners at the lead-ing shows of Canada. High grade stock at bargain prices. Write your wants.--Leslie Kerns, Freeman, Ont.

FOR SALE.-Good cheese factory in Perth County. Make, over 80 tons. House and lot adjoining. Convenient to school, church and towns. Good locality. Box G., Farm and Dairy.

WANTED - OREAMERY - An experienc-ed creamery man of good financial standing seeks information regarding a community that might prove a suitable field for a creamery. Address, Box M, Farm and Dairy.

FOR SALE—Creamery for \$2600. building, increasing business. bulding, increasing business. Very light opposition: money maker, West ern Ontario. About 200 patrons. Don't write unless you want to buy. Box D, Farm & Dairy, Peterboro, Ont.

Parm a bairy, reservoirs, our WANTED-Rickness in the family having forced the writer to sell his farm, of which he had made a great success, he is open to accept a position as Farm Manager. Best of references. Box 25, Farm and Dairy, Peterboro, Ont.

They Like This



<text>



The Lateral in nearly every other Fence is kinked. This weakens it. And when subjected to great strain : snapl she goes Because all contraction-strain falls on the Lateral.

No other Fence Maker can make this Lock. We own the patent. And we build our Machines in our own Machine Shops.

So, you see, this wonderful Frost Lock can-not be duplicated-nor even imitated.

Frost Metal Lock

The Frost Field-Erected Fence Lock per-mits the use of No. 7 Hard Steel Stays (a sizes larger and heavier than the Uprights used in Woven Fence). These are immovably bound to unkinked coiled Laterals.

The Lock on the best other Fence made is bout 60 per cent. weaker than the Wire.

But the Frost Lock is the strongest part of the Frost Field-Built Fence. Fallen trees, and other unusual tests, which have smashed other Fences to smithereens, have left the Frost uninjured.

This Frost Lock is the safest Field-Built ence Lock ever made. It is the only secure ock which will not injure the Wire in a field Erected Fence.

Make Our Own Wire

There are extreme weather changes in ertain sections of Canada which mean a nighty short life to most Wire Fere.

But Frost Wire is Galvanized doubly thick. Ind it is not merely "coated," either. The inc goes down into the Wire, making the alvanizing a part of the Wire itself. This revents Frost Wire from scaling.

This is possible only by the Frost "Pick ling" and "Cleansing" process. It simply scours Frost Wire of every particle of grease and scale, leaving it as clean r s a pin.

Frost Galvanizing will now stick to the Wire through thick and thin. No Galvaniz-ing enemy can rust it. That's why the Frost Fence will last is to 15 years longer than most others.

Hamilton, Ontario Agents Wanted in Open Districts

Frost Fence

Two-Thirds of Its Life Two-thirds of the life of a Wire Fence depends upon its Galvanizing. When this wo-thirds is killed-eaten away by rust-the ther third is as good as dead. Yet nearly all Wire is Galvanized too thinly. And, besides, it's merely "coated." That's because Zinc costs four times more than the Wire itself.

(We pay the highest price for Zinc,-and get the best.)

Send for free Booklet and Samples

The Frost Wire Fence Co.,



******************** OUR FARMERS' CLUB Contributions Invited. OUEBEC

L'ISLET CO., QUE.

L'ISLET C.O., QUE. TISLET.-Never since many years was for much fail lowing done at last year, the since of the since and some since of the since

ONTARIO

GRENVILLE CO., ONT

GRENVILLE Cot, ONT . CHARLESVILLE.-Dutchers' cattle are sare and almost any kind of beef sells for a fair price. The general opinion of the farmers here is that cattle will be thinking of disposing of their herds. Thr-othy hay, 815 to 816 a ton; onts 406. a bas: corr. for a bus, hera, 823 a ton; fresh eggs 40 to 46 a dos; butter 25 to 36. a 0. througe 80. a dos; butter 25 to 36. a 0. througe 80. a dos; butter 25 to 36. a 0. througe 80. a dos; a 10.; chickens 15 to 18c a 1b.; bidge 10c a 1b. a lb

HASTINGS CO., ONT.

HASTINGS CO., 0NT. CHAPMAN-The weather has taken a sudden change for the worse and as a re-sult wood is in good demand at \$4.00 km a. fair crop and will be of fair quality. The amount on hand is not large but it gives promise of bringing a fair price. Straw is in good demand at \$7.00 a ton, and beef cattle sell for good prices. Hogs -HART, at so a lb. and are very searce. -H.S.T.

PETERBORO CO., ONT.

BAITH TOYNSHIP-A very successful dairy meeting was held in Zion School House on Dec. 71, towards the formation of a Farmers' Club in this vicinity. Mr. J. H. Garbutt, president of the West Pe-terboro Farmers' Institute and others pointed out the object and henriku of the following officers were elected: Presi-dent, Henry Ruthes, vicepres, J. H. Garbutt Stutts: sectreas, G. N. Milburn. Directors-O. Graham, G. Mann. Audiors-A. B. Mann and B. Alian. The next put off work behidt on Jain. Stutt il also address the meeting. The club has a membrahip of 28. DURHAN CO., ONT.

DURHAM CO., ONT.

DURHAN CO., ONT. SOLINA.-Glock is wintering well and selling high. Hogs at \$8,75; lambs \$6,25; fat cattle \$500 to \$600 act. The horse market is fairly active. Distemport is very prevalent amongst the horses, some hav-ing died from the effects and others from other causes as asoturia, colic, etc. while there is a general complaint of broad heids a very creditable Christmas Fair, 3500 being given in prizes. Clover seed sold here at \$9,10 a bus, but has dropped to from \$8 to \$5,50-J.B. ELEETWOOD_We are here present

from 84 to 8450–J.B. FLEETWOOD-We are having great sleiching in this vicinity now, threshing in about completed with the exception of some clover seed. The farmers have done exceptionally well owing to the good price of cheses and a number of our shrewdest farmers have from 10 to 60 bushels of clover seed, which will help add to their bank account. Good havy horess are in great days the second of the second of the second second second second second second well, owing to the late fail, and to having taken care of it—A.G. BRAT CO. ONT.

BRANT CO., ONT.

BRANT CO., ONT. PALICLAND—The weather has been quite cold lately with strong winds and some storms. There has been fair a leigh-ing for some time and this makes it easy to get a round, especially for those who have teaming to do. The demand for ive hogs is good. Stilb being the price offered by buyers. Otheristmas trade has been acceptionally playing and good prices there ristication of the start of the start of farm products all combined to give

FARM AND DAIRY

merchanis in town the best Christmas trade of several years. There was an abundance of poultry supplies and to-wards the close of the Christmas mar-ket prices field off, turkeys dropping from 25 to 18c a 1b. and other fowl in pro-portion. Wheat \$1.04, bran \$25, middings \$35; hay \$13; potatoes Toc a bag: butter 20c; eggs 306 and earce-LT.

ELGIN CO., ONT.

ELGIN CO., ONT. YARMOUTH CENTRE.-The writer met-in the person of Mr. Wm. Rockey, of this place the greatest enthusiant on the sub-ject of deep plowing, that he has at any time run acress. Mr. Rockey says, "I got right down eight inches every time, and there is the gold mine, and I always get applendid results from deep plowing. There applendid results from deep plowing. The around here, the farmers like myself eates of deep plowing. We believe they know where the rich land is." I

A Great Premium Offer

For a number of weeks Farm For a number of weeks Farm and Dairy has offered through its advertising columns seed of the "O.A.C. No. 21" barley in return for new subscriptions taken each at only \$1.00 a year. The response received to this offer has been gratifying. In a retail way seed of this great barley readily realizes \$1.25 a bushel. The substantial nature of this movies of the substantial nature of this premium offer is evident and explains in part its popularity.

The stock from which the seed offered was grown, came direct from the Experimental Depart-ment of the Ontario Agricul-tural College in the spring of 1907. A fair sample of the seed as offered by Farm and Dairy was exhibited at the Guelph Was exhibited at the quepp Winter Fair last month where it won a high place. It took third. Had it been threshed more closely experts said that it would have taken first.

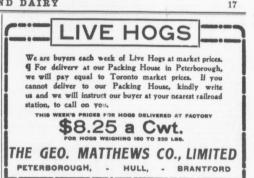
The returns from a two bush-el lot of "O.A.C. No. 21," as offered elsewhere in this issue would provide next season all the seed barley required on the average form and could here the seed barley required on the average farm and could leave considerable for sale. Figure out what an increased return you would get from the acreage that you devote annually to barley if you grow this variety, which has yielded as high as eight bushels per acre more sight bushels per acre more then tak medscheuri variety. Then tak medscheuri variety it would require hout little

afford to be without it! It would require but little effort to get four of your neigh-bors to subscribe to Farm and Dairy. You could then possess yourself of seed of this great barley. It is offered as a pre-mium this week for the last time. If you would secure your sary. Order by the filled until the supply is exhausted.

ventured to remark that some authorities recommend shallow ploving in many cases. He replied "I have no patience with any theory of that kind. For in-stance I ploved my corn ground deep, splendid ripened corn; had it maked by the Indians and paid them \$50.00 othere is no mistake about the quantity. Had also fine cats and all other grain was good, 80 my motio is plow deep and you have at least gone serve times over the land with different implements" Mr. Bockey plowed with three horess and the had with dinferent implements." Mr. Rockey plowed with three horses and turns the land over first. He also rolls his land well and recommends rolling fall plowing, thinking it better to pack it thus, than having it run together by storms of rain and snow.-J.E.O.

BRUCE CO., ONT.

WALKERTON .- The holiday season be ing over we are getting down to work once more. Quite a number are hauling out manure, the snow being only about



foot deep. Despite the fact of coarse a foot deep. Despite the fact of coarse grains being high in price most farmers are feeding a number of cattle for export. As high as 50 a 1b, is being paid for but-chers' cattle for present delivery. Hogs are \$800 a ovt. butter 25c, erggs 25c; po-tatoss 40c a bus, Live stock of al kinds are in good thrity condition and there is plenty of folder to carry them theorem full the good thrifty condition and there is piency of fodder to carry them through till the month of May.-J.A.L.

R. B. MARTIN'S HOLSTEIN SALE

R. B. MARTIN'S HOLSTEIN SALE
 The unreserved dispersion suction and of 32 pure break Holstein calls on Pri-State, Jose Forwell, 815: Lord of Fatton, Jose Forwell, 815: Lord of Fatton, Jose Forwell, 815: Lord of Fatton, Jose Forwell, 815: Lord of Patton, Jose Forwell, 815: Chements, 816: CHASED WITH THEIR PIGS
 I. Teesived the pig which you sent me successful and proved astisfactory to the proprietor, Mr. R. B. Martin. The catter sold. burgers and prices follow: Cower.-Queen's Dalay Bell, W. Elife, Hes-State, State Strand, State State, State State Cower, Q. R. Gies, 856: Verna May De Kol, W. T. Whale, Goldston, 8125: Winnie R's Grantes, G. R. Gies, 817: 706. J. F. Jonan, Weston, 815: Pietertige Heino Ind, Theman, Clochide T. Trebilook, The Grave, 810: Ling as en new subscriptions for Pormuta-ting as en new subscriptions for Pormuta-ting as en new subscriptions for Point Jaran, New Hamburg, FS, Lilly Diome, Piager, Weston, 857: Fastion Lassie, Jas.

Meyers, St. Clements, \$47,50. Heifer ealves.-Lady Elmira Abbekerk, W. Rife, Hespeler, \$47,50; Matchless Abbe-kerk, Chas. Martin, Oliford, \$47,50; Lady Abberkerk Diotme, W. Shade, Listowel,

Bull .- Diotme Sir Abbekerk, J. J. Fox, Morden, \$70.

Morden, \$70. Calves-Queen's Diotme De Kol, W. T. Hambly, Drayton, \$30; Sir Hengerveld Fayne De Kol 2nd. Ohns. Martin, Olif. ford, \$30; Prince Abbekerk Dioyms De Kol, Peter Kines, Listowel, \$18: Lord of Fatton, Jos. Forwell, St. Olements, \$16.

START RIGHT NEXT SPRING **USE THE HAMILTON** Elastic Cultivator The easiest working, most satisfactory and successful Cultivator made. Leader Drill The strongest and lightest Drill built, an accurate sower and good crop getter. Hoe or Disc. See Nearest Agent THE PETER HAMILTON CO., Limited PETERBOROUGH, ONT.

18

MARKET REVIEW AND FORECAST ****

Toronto, Monday, January 10.—The re-duction in the Bank of England rate from ℓ_{γ} per cent. to 4 per cent. means that r there is likely to be no stiffening of the money market for some time to come for spring exploitations. A st this date but in the two preceding years was as high as 6

per cent. In New York there has been some un-certainty in regard to the outcome of the President's message, which has had an un-setting effect on certain stocks and bonds. In Canada signs are taultiplying that the coming season will witness a wide expan-tion in all branches of commerce. There In Canada signs are initially wide expan-coming easies of the signal expan-sion in all branches of concerns. There is one great danger the propensity to over-borrowing the propensity to over-borrowing manifest and any making itself manifest and causing bankers to is-sue notes of write tr write tr

WHEAT

WHAT WHAT The Argentine scens to act as a pen-distribution of the second scale of the second scale of the pendulum works smoothly everything world's exchanges. Last we which emped-higher for the least irregular more world's exchanges. Last we which emped-higher for the second scale of the pendulum works and the second last higher for the second scale of the pendulum scale of the second scale scale of the second scale of the second scale scale of the second scale of the second scale scale of the second scale of the second scale scale of the second scale of the second scale scale of the second scale of the second scale scale of the second scale of the s

COARSE GRAINS Data show a slight tendency to higher prices: No. 2 westerns selling at 40% on quoted at 36 to 36% of No. 2 quality Ton the local burnt. The Montreal for No. 1 monte and the self of the more and 46 in store. In Liverpol oats are 3d higher than last week's quotations. and the market is firm. The market is furmed and the self of the s

JOHN HALLAM, TORONTO

In Montreal the market is quiet in these cereals, prices being for buckwheat 52c; rye, f.o.b., 68c to 70; and peas, 91c to \$1.15, according to quality.

HAY AND STRAW

HAY AND STRAW The maritet is very light both in Toron-to and Montreal but a fair of the farmers maintained. Hay warying from 856 to 821 and wholesale in ear lots at 835 to 843 a ton, first quality. On the farmers' market he following prices prevail: Clover hay. 30 to 816, losse, 84 run frm. 810 to 813.50 market sells at 87.50 to 88 a ton in ear set, and on the local farmers market sells, at 87.50 to 88 a ton in ear set, and on the local farmers market sells, at 87.50 to 88 a ton in ear sells, at 87.50 to 88 a ton in ear set on for losse and 84 disc, the Northwest and also from the United States and this is keeping the mediate likelihood of a shump in prices. PATORES AND HEANS

POTATOES AND BEANS

PUTATUES AND BEANS There is no change in prices from last week's quotations, for both these com-modifies. The market is quiet. Prices quoted are 45c to 50c a bag in car lots on track, and 5c to 60c out of store. On the former's market potatoes sell at 50c to 60c

Beans are quoted locally at \$1.65 to \$1.75 Beans are quoted locally at \$1.65 to \$1.75 for primes and \$1.80 to \$1.65 for hand pick-ed. In Montreal, Green Mountains are quoted at 65c and Quebees at 50c to 55c off track, Beans are quoted nominally at \$1.85 to \$1.90 on the market.

EGGS AND POULTRY

EGG AND POULTRY Prices are getting easier all the time and eggs are now quoted on the local and eggs are now quoted on the local advent or strictly new laid. On the for many strictly new laid. On the dee to de for new threat the market is firm ow-not the continued demand from outside not the continued demand from outside not the continued demand from outside not the continued demand from outside and they easily realize de a doscri-net demand for poulla quotations pla-tical market is first to the demand. The demand for poulla quotations pla-tical market is to the continue the to the continued the quotations pla-tical they are quoted at the to Ele-tical the to 16c; fowl, 10e to 11c; the to 16c; fowl, 10e to 10c; the strict turkeys are quoted at the to Ele-tical the auth strictly the to the first are about the autherent and market and the author and the author and the strictly the to 16c; deliketers, 15c to 30c; the author and the author and the and the author and the author and and the transformed at the strictly and the strictly the author and the author and the strictly and the transformed at the author and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the strictly and the transformed at the strictly and the

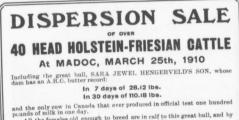
FRUITS

FRUITS As stated last week the trade is practi-cally at a standstill in most qualities of fruit English buyers are still lamenting stands at the in which a quantity of last taxon's apples have been presented on the market. They state that the latest abiments have been affected by the bad condition of the earlier shipments. This should be taken to heart by Canadian ex-

Do you trap or buy Furs? Iam Canada's largest dealer, I pay highest prices. Your porters On the local market the following On the local market the following quo-tations are given: Apples, a bbl., \$250 to \$3.50; winter apples a bbl., \$2 to \$2.50. On the farmers' market apples are quoted at \$1.50 to \$3.50. shipmen's solicited I pay mail and ex-press charges; remit dealer in Beefhides. aler in Beefhides, and shipping tags

DAIRY PRODUCTS

There is a movement on foot in New



All the females old enough to breed are in calf to this great bull, and by the time of the sale there will be 20 calves sired by him.

J. A. CASKEY - - Madoc, Ont.

Catalogues will be ready by March 1, 1910. Further particulars later York to press for the lowering of the dut-ies on Canadian dairy products, in order to take advantage of the present abur-dance in this country. If this refuelds the line dealers are solved the second the main dealers here and the second the main dealers here are also and the second the 26c separator prints are quote 26c to 28c; dairy prints, 22c to 26c to 28c; dairy outed to 26c to 26c to 28c; dairy outed to 26c to 26c to 28c; dairy outed to 26c to

Outside quotations for seeds are: Alsike, \$5.25 to \$6.25, and red clover, \$5.50 to \$8.25, according to quality: timothy, \$1.40 to \$8.25,

FEEDS

FEDS The market continues firm at last week's quotations. Manitoba bran is selling at 821 a ton and short at 822 to 684 a ton on track: Ontario bran at 822 a ton ont track: Datario bran at 822 a ton bran is quoted at 820 to 820 Abread Manitoba short at 822 to 823 a ton de livered in jobbing lots at 831 a ton de track for a 821 a 831 a ton det track.

HORSE MARKET

HORSE MARKET Sales are going brickly in the local market, the Northwest minimum the greater shares were sold at the Repository ouring 1990 than in the preceding years brick of the starter of the lat week. Express horse, fraught, sile drivers, \$10 to \$500, \$10 to \$500, and to \$10 about the same figures of the starter of the horse being recorded. Live STOCK.

LIVE STOCK.

hores being recorded. LIVE STOCK. Trade has not been very brisk in eat-tie the vast week, and prices asked are higher than many buyers can offerings. In the been record prices asked are higher than many buyers can offerings. In the been record prices asked are higher than many buyers can offerings. In the been record prices asked are not containing 1700 cattle, 1150 sheep the been record prices asked are butchers' cattle went as high as 800 the been record prices asked are not containing 1700 cattle, 1150 sheep the distributions. Exporters, medium to the constructions. Exporters, medium

MONTREAL HOG MARKET.

MONTREAL HOG MARKET. Mantreal, Saturday, January Bh.-The market here for live hogs opened with an easier feeling wing to the increased offerings during the first part of the week, but there was no a freely at from yrices, agles beint for selected jots weigh-ed off cars. Towards the end of the week the supplies fell off considerably, and there were not any more than sufficient not any more than sufficient there were not to go around.

to go around. Quotations on dressed stock have been marked up all around and fresh killed abattoir stock is quoted at from \$12 50 to \$12.75 a cwt., with country dressed at \$12 to \$12.25 a cwt.

PETERBORO HOG MARKET

PETERBORO HOG MARKET Deterboro, Monday, January 10th-Duan-ish hogs delivered in England last week were 2200. The demand for bacon is only fair. The deliveries of hogs of the local markets are very light. The briese for these So. quote the f. o. b. country fourts \$825 act; weighed of cars, \$840 act; delivered at abattoir, \$825 a cwt. Expont BuiltErs Aban Culfered EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE Montreal, Saturday, January th...The tone of the market here for cheese is de-cidedly improved this week as consider-able demand for export has developed since the turn of the year. has been of subscriptions during the page and Township cheese offering in this market at from lie to 11% a lb.





every hour, day and night, on your deposits in the Savings Bank Department of the Traders Bank. In time the interest amounts to as much as the original savings, thus doubling your saving power.

The money is not tied up either, for you can draw out what you want at any time without delay or bother.

A Bank Pass-Book is a firstclass start on the road to independence, if not wealth.

THE TRADERS BANK OF CANADA Capital and Surplus \$6,350,000

Whatever there is left here unsold of this class of poods is being held for more monations on this class of goods ranging from 13% or 13% or 18. Holders have been looking forward confident: to a re-newal of activity with the adven: of the New Year and the active deven: of the New Year and the active deven an ex-tention of the second second second second which consists almost attively now of fin-est September and October made Ontario cheese.

The experiment and theorem same Omarily observes. The stocks of choses in store in Montr-al at the break of the year amounted practically unchanged from that in store here at the close of navigation, as the abipments during the month of December were very light, and practically the same as the receipts into the city and Canada is toris. The bas all title under a quarter of a million boxes. Stocks on the other tide, however, show a substantial reduc-tion during the month, the total stock



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in store in the three great centres, Lon-ton, Liverpool and Bristol, being estimat-ed at 330,000 boxes. The market for butter this week is steady with prices unchanged from all sources, except for excert, the demand from the United States having failen off to the define in prices current there for creamery. The stocks in store are being steadily reduced. It have the shore the shore the variations were rapidly. See all h. is olids, prints commanding 25% with a small quantity of fresh re-cepts offering at Sea hb. Dairy butter is Voiced all the way from 18% to 18, ac-cording to quality.

10.1.STEIN-FRIESIAN BREEDERS' ASSO-CIATION ANNUAL MEETING. B: George, Jan. B: 1900 The annual meeting of the Ganadian Holstein-Friesian Association will be held in the Tempie Building, Toronto, on Thurs-day, February 10th, 19(a, at 9 o'clock a.m. -G. W. Clemons, Secretary.

0-------AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Canadian Ayrshire Breeders' Association all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column

manna General sympathy will be felt by Ayr-shire breeders and by the many friends of Mr. W. F. Stephen, both in Canada and the United States, over the death of Mrs. Stephen, which occurred last week.

CANADIAN AYRSHIRE BREEDERS' ASSO CIATION ANNUAL MEETING

ANNUAL MEETING The annual meeting of the Canadian Ayrshire Breeders' Association will be held in the parlor of the Walker House, Toron-to, Ont., on Weinesday, January 26th, at 19 am., to hear reports of the president, seretary-trassurer, registrar, Record of tess; also for election of of different, and for transaction of any other business that may properly come before the meeting. All interested in the breeding of Ayrshire sattle are contally invited to attend as cres will be under consideration. We beg to two notice that amendments to the constitution may be considered and adopted.

adopted

ROCK SALT for Horses and cattle, in tons and carleads. Toronte Salt Works, Toronte. G. J. CLIFF, Manager LAKEVIEW STOCK FARM WANTED .- A few fresh Holstein cows or heifers coming in shortly. State breed ing in first instance and price. R. F. OSLER ONT. BRONTE - - - -SEED PEAS Paing one of the largest groves of ised Peasin anada I am desirous of plating seed ingood peagraving sec-tomple the seed and contrast with nerness-for-henorduct.ducting the seed supplied when eropis delivered. Prefer graving in places where a carload of seed rould be placed. For particulars, survey W. P. NILES, Wellington, Ont. **Or. Bell's** Veterinary Medical Wonder cures kidneys. The auth century wonder. Agents wanted in every county, White for a free trials is batter. This offer only good for to days. Limited to an bottles.

DR. BELL, V.S., Kingeton, Ont.

The Directors will meet in the parlor of the Walter House on Threaday, January Marker House on Threaday, January Pease allow us to remind you that the annual member's fee for 190 is now duc. A prompt remittance to the Accountant, National Live Stock Records, Ottawa, Ott., or to the secretary frequency, will be sto-tage on yet paid the member's fee for 1995, to kindly remit at once. As the manager of the Walker House has extended us the use of the parlor free of charge, we ask that breeders put up at this hold, if power NE, President, W. W. Barratord, Ott. W. F. STEPHEN, Sec. Treas, Burningdon, Que

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CENTRAL SMITH FARMERS' CLUB CENTRAL SMITH FARMERS' CLUB The Contral Smith Farmers' Club will hold their next meeting on Monday even-bay and C. A. Zavits of the Ontario Az-ing January 34th, when Professors O. E. ricultural College, Guebb, will be present and address the gathering. The States will be invited to the meeting in Pebruary at which time poultry subjects will be dealt with.

in 30 days, is included in the offering. Anyone wishing to secure foundation stock or to add to their stock of Holsteins should keep the date in view and attend Mr. Caskey's sale.

to the Accountant, requiring College, Guelph, will be present orde, Ottawa, Ort., and address the grathering. The Ladies will Friish Columbia Live Stock Associations, we ask these witch time poultry subjects will be dealt with the invited to the meeting in Pebruary Argeneticultural and Dairymen's Associations, which time poultry subjects will be dealt with. The ACMENT Association meets on January Mst. A result of the meeting of the province will be a delegate at breeders put presentative from each agricultural society in the province will be a delegate at breeders put part Mr. J. A. Caskey announces in this issue the meeting. The presentative from each agricultural society in the province will be a delegate at breeders put part Mr. J. A. Caskey announces in this issue the meeting. The presentative from each agricultural society in the province will be a delegate at breeders. Association, February Friedent, HEX, Sec.-Treas, Amanda January 32, 18, 0, butter requered son, whose dam has an A. R. 0, butter requered as sociation on Pebruary 4, making in all a good week of agricultural meetings.

