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R.R. PP. TRAPPISTS per Fr. M. Bavillieu Asst. Sec.

"Without the Milker I Would Go Out of the Dairy Business"

Note the following

BEAVER MEADOW STOCK FARM M. Zoeller, Pro: Importer and Breeder of High Class Holsteins

New Hamburg, Ont., Sept 25th. 1913 Mesars. D. Derbyshire & Co., Brockville, Ont.

Means D. Derbyshire & Co. Brookville, Ont. Ders Sirz, Yours of the 1 th received asking how I was getting along with the Bi-LK Mikers. I am not only giad but am really proud to add my testimouty for something I prizes on highly. I have used it for a little over one year and have never missed even one militing with it except once when the power went wrong. One man militing with it except once when the power went wrong. One man even to purchase another militing four cowe at one time. I intend soon to purchase another militing four cowe at one time. I intend with sour tasks aimc using the machines As to the upkeep of the with sour tasks and may to thers, that if I had to do without the milker I would go out of the dairy busines. I have not trouble with sour tasks aimc using the machines As to the upkeep of the Bi-LK machine too highly. I would certainly post or prize the Bi-LK machine too highly. I would certainly part of prize with fore eachine to a three the milking machine with and the source of the machines a source of the source of th

Wishing you every success. I am

Very truly yours. A. M. ZOELLER

We do not need to say anything further this week about the profitable results that you, Mr. Dairyman, can obtain by the use of the B-L-K. The unsolicited testimonials above stand for use of the B-L-K. The unsolicited testino are in half a dozen more than we could possibly convey to you even in half a dozen

We will, however, be glad to send you our literature on receipt of a post card

Remember, too, that we handle the "Simplex" Cream Separator.

D. Derbyshire @ (Head Office and Works - - BROCKVILLE, ONT.

Branches: PETERBOROUGH. ONT. MONTREAL and QUEBEC. P.O. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



Our people are not poultry fanciers. They too keep poultry. 95% of iffem actually keep hens. That's why we devote a whole page each week to poultry, and on Feb.

5th will publish

Our Fifth Annual Magazine Number Wholly Devoted to Poultry While the enthustaxm of our people is highest over poultry-over what they are been approximately and the series of the series of



Newsy Notes from B.C. (From Farm and Dairy's Special Correspondent)

Discussion around the compulsory tuberculin test has quieted some what following the announcement by the overnment that the appropriation ad given out and no further tests would be made until after the com-ing session of the legislature. That the test is being abandoned is denied by the officials, who say that it will be resumed immediately funds are available. The question of compenavailable. The question of compen-sation will doubtless be gone into by the legislature, and it is probable that an increase will be granted. While some opponents of the com-pulsory test base their antagonism on the ground of inefficiency, the ma-jority object because of the low com-

the sale of imported milk from other ed than tested herds. If this proves to The farm began operations with h true, one serious obstacle to the 90 picked cows, and apparently with auccess of the act will have been re-very circumstance in its favor. Like myred. When the test's enforcement other similarly favored enterprises, began to be felt this fail, dairymen hawever, it ultimately failed. the sale of imported milk from other than tested herds. If this proves to claimed that, though owing to the loss through condemned and slaughtered cows, it was costing them mo to produce their milk, there was absolutely no way of recovering because the milk imported from Washington kept the price down. This import kept the price down. This import-ed milk, of course, was from untested herds

Daily Columbian, of New The Westminster, contained recently a sketch of the experience of a Matsqui dairyman, Charles L. Smith. Mr. dairyman, Charles L. Smith. Mr. Smith hails from Dufferin county, Ontario, where he got pretty thor-oughly acquainted with Molly and idiosyncracies When he came to British Columbia, however, he was cautions, and rented on lease the dairy cattle. I understand that large farm of the Hygienic Dairy at quite a number of the breeders of Matsqui. That was two years also pure breds are contailing their sales last spring. At the expiration of his believing that prices are going to lease, he purchased 240 acres of the stay high, and that now is a good farm, including the buildings, and time to strengthen theirs. Ser-bught the uncleus of his bed?, a cal anotioned with herds. Serand rented on lease the cautious. farm. including the buildings, and bought the nucleus of his herd, a young registered Holstein bull and a few pure bred and grade Holstein COW

cows. Although professedly moving along conservative lines, Mr. Smith has built up quite a considerable dairy farm. This fall he is milking 18 cows. sending the sweet cream to Vancouver and feeding the skim-milk to calves and nure bred Yorkshire pigs. He has 25 good cows which will freshen in January, besides a bunch of 25 grade Holstein heifers, which were brought out from Ontario in June; 40 grade Holsteins and Ayr-shires are bred to freshen next September

On Mr. Smith's farm 180 acres are w cultivated or in pasture. Some 60 acres covered with alder. crab apple and cottonwood will be slashed next summer and cleaned up. Then between the stumps the land will ha seeded and for three years used for nesture, when the stumps will be uprooted without difficulty

The dairy farm which Mr. Smith now overs is one with historic associa-tions. Many dai ymen of the pro-vince will remember the organization of the Hygienic Dairy Company. The purpose of the founders was to propurpose of the founders was to pro-duce for Vancouver a perfectly pure supply of milk. They had abundant capital to carry on a large undertak-ing; 640 acres of good land at Matsqui was purchased; architects and expert dairymen consulted to-gether and devised plans for a modgenner and devised plans for a mod-ern set of buildings. These included two cow stables, each with a stall capacity of 52 cows, and both equipped with cement floors, gutter drainage, ventilating shafts, litter and feed carriers, and every other improvement then invented. There were two barns, one 200 x 100 feet for The binary of the low combines to the low comb

The damage that one herd of tuberculous cows may do has been alluded to frequently. An instance came to to requestly. At instance came to the writer's notice recently. It was stated that from one herd in the Lower Fraser Valley tuberculosis had Lower Fraser Valley tuberculosis had been spread directly to over 1,000 animals. The berd, which was prac-tically wiped out when an inspector examined it some time previous to the establishment of the computory test, had been affected with the dis-ease for yays and offersion the disease for years, and offspring likewise affected had been sold to many points in the province.

High prices continue to be paid for dairy cattle. eral auctions and private sales have set high figures. Mufford Brothers, of Milner, sold a grade Holstein cow to W. Matheson. of Comox, recently for \$250. At Chilliwack, a governfor \$250. At Chiliwack, a govern-ment auction of tuberculin tested im-ported grade cattle saw one six-yearold cow sold for \$210. It is predicted oute generally that prices will stay up, and the number of buyers is away in excess of the number who care to sell.

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Milk is the better for not being covered tightly until cool.

The Dairy Branch of the Depart-ment of Agriculture. Regina, cooper-ating with the Canadian Pacific Railway Company and the Grand Trunk Pacific Railway Company. have ar ranged for a dairy special train to be run over these lines during two of the situation of the second trained the second trained the second trained the second trained traine the winter months. Stops of half a day will be made at each point, and something of interest will be provided for the farmer, his wife and children.

22, 1914



Mr. Smith ł ric associa of the pro organization ompany. The was to prorfectly pure ad abundant ze undertakland at architects insulted to. for a modse included ith a stall and both oors, gutter hafts, litter every other There 100 feet for 100 feet, four silos of 250 tons nery, horse also erect.

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e Departna, cooperacific Rail-and Trunk have ar train to be ng two of half point. and e provided d children.



More Money for Rural Schools RICHARD LEES, M.A., INSPECTOR OF SCHOOLS

Present Defects. Sources of Revenue that

Would Not Burden Rural Taxpayers.

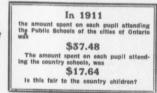
How the Money Should Be Spent

"The Chief Business of a Commonwealth is Education."

More Liberal Support the Remedy for Many of the

35 Years in Use

HEN some of my readers observe the heading of this article they may be disposed to say that if no other remedy but increased expenditure can be suggested, things had better remain as they are. There will be the



old story about high taxes and the present enormous cost of education.

In a former article of this series the statement was made that we are paying a mere pittance for education. A very reasonable estimate of the amount paid for intoxicating liquors by the people of Canada places it at about \$11.30 per head of the population. It is probably considerably more. For tobacco we pay at least two-thirds as much. Taking the population as determined by the last census and assuming that the average for Ontario is the same as for the Dominion as a whole we find that Ontario pays annually 281/2 millions of dollars for liquor and 21 millions for tobacco. In 1911 we paid for public and separate schools, \$10,802,174. That is, for every dollar we pay for schools we pay two for tobacco and nearly three for liquor. Surely no one would contend that we cannot as a people afford to pay as much for public schools as for liquor and tobacco together. but as a matter of fact we are only paying a fifth as much. More than that the 50 millions that we spend for drink and tobacco bring no return. while all experience goes to show that no money spent by a people brings more ample and direct financial returns than that spent for schools.

If we should start now and spend four or five times as much on education, provided it were spent wisely, the increased productiveness of our people, in a very few years would meet the added outlay 10 times over. No gold mining or real estate proposition could possibly bring such handsome or satisfactory returns. But the return in material things is the least important. The others cannot be reckoned in dollars and cents. They are culture and morality, wisdom and happiness. There is certainly little in the argument that we cannot afford to pay more for education so long as we are paying five times as much for smoke and drink

Then if any of my readers have had the actual experience of paying for education in a private school, where the actual cost has to be met by

"The Assessment of the city of Montreal rose from 428 millions in 1910 to 638 millions in 1912, an increase of over 100 millions a year. at least half of which was in increased land values.

In Toronto land values alone rose from 107 millions in 1910 to 210 millions in 1912, or an increase allowing for added area of over 80 millions in two years.

Who earned this immense increase of wealth? Who has it? Why should not part of it be used

for rural educational purposes?

those who use the privilege, they will have realized the full significance of the assertion that our public school education is costing a mere trifle.

The present scarcity of teachers is due in a larger degree to the smallness of the salaries than to any other single cause. Even in the cities where the larger salaries are paid the remuneration of the teacher is small compared with that of other callings that are comparable as regards qualifications and responsibility, notwithstanding the rapid increase that has taken place during recent years. The statement has recently been made that there are employed in the departmental stores of Toronto a sufficient number of persons holding teachers' certificates to man the schools of the city. Why are they there? Can it be that they prefer the conditions of life in the big store to those in the schools? If so it is but another reason for a radical reform in school conditions. The more probable reasons, however, are that the pay is better and the chances for promotion much greater. In business life there are prizes to which every faithful worker can hope to attain that are entirely wanting in the teaching profession

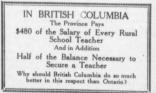
TT B

One Example of Progress

HOW TO SPEND THE MONEY

Thoughtful readers will probably ask, what I would do with the additional money, and where I would get it. My reply to the former question is, that I would spend a considerable part of it in improving rural school conditions. The present out of date system should be abandoned, the rural schools consolidated as rapidly as those concerned can be induced to give their consent, and buildings erected in which provision would be made for the development of all that pertains to country life.

A considerable sum should be spent in the training of teachers specially fitted for the work of teaching a rural school. Recognition should be given to the fact that the rural school ought to be a type distinct from the city school, and that so long as the same training is given teachers of both classes at schools, so long will there be failure in one or both. Then salaries should be increased. Without taking time to combat



the argument that the salaries being paid at present are sufficient for the services rendered, it may safely be said that one, probably the only way, of securing efficient service is to offer to pay what efficient service is worth. Salaries should be graded so as to increase with successful experience, and also with continued faithful service in the same school. In addition to all this there should be adequate provision for a pension fund, as there is now in some of the other provinces. There came to the knowledge of the writer recently the case of a teacher in another province, the holder of an Ontario certificate, who was offered in this province a salary considerably higher than he is receiving, but declined saying that by remaining he would in a few years be eligible for a pension in case of incapacity. This he thought of more value than increased salary. As to the other question it has already been

shown that the people can easily afford to pay many times more than they are doing for edu-



A Rural School That Cost One Dollar for every Eight of the Total Assessed Value of the Section

cation. If it were possible to cut our tobacco bill in two the money for schools could be doubled. Then if we should go a step further and divide our drink bill in the middle, we could have 35 millions for schools, instead of 10 as at present.

As was pointed out in a former paper, education is now universally recognized as the business of the state. According to our constitution it is made a provincial matter. If it be correct that the state, that is the province with us, should provide for the education of its children, surely the province as a whole should bear the burden, and not the local school section. The present system by which one section is compelled to pay a school tax 10 times as high as a neighboring section and still have a poorer school, is fundamentally wrong. To increase the unit to the township would be a partial remedy. But the advantage of that is at present obtained to a considerable extent through the uniform townsh , levy. If the county were made the unit and : considerable proportion of the revenue contribu ted to the county board in the form of a provincial grant, it would probably come nearest to the ideal condition. The burden would then be largely borne by the province as a whole and sough would be left to local sources to keep alive and stimulate the interest of the community, such things for instance as making provision for heating, caretaking, etc.

In opposition to this it may be held that if rural schools are to be maintained largely at the expense of the province, the burden will fall with disproportionate weight on the centres of population in the cities and large towns. Even if this were correct, there are many things to justify the making of such a condition. First, the superior conditions of life in the towns and cities constitute a good reason for asking them to bear some of the burden of an effort to better rural conditions. Should anyone doubt their superiority a sufficient "eply is to ask how otherwise it is possible to explain the present tendency to flock to the cities.

PARM AND DAIRY

Second, so long as this tendency city-ward continues, the citizens would be merely helping to provide for the education of their future citizens. As long as the cities are draining the rural communities of their best life, it is surely a small thing to ask that they contribute in their turn to the uplift of these communities by making the rural school a more potent influence. But besides all this, we find the wealth of the country 'is gradually being accumulated in the cities and large towns. In 1901 the assessment of the towns and cities was 44 per cent. of the total assessment of the province, while in 1911 it had risen to 55 per cent. The wealth, the culture, the very existence of the urban centres depend on the rural communities. In the ultimate analysis the whole business and industry that creates, accumulates and maintains the wealth of the cities is dependent on the productiveness of the farms, which in turn depends on the skill, industry and frugality of the rural population.

A very large proportion of the wealth of the country is produced on the farms. Under our complex system the handling of this from producer to consumer is controlled by residents of the cities. Owing to the business created by the rural communities in this way, sudden and almost incredible increases have taken place in value of properties devoted to this business. These increases have in no case gone to the people whose productive energy caused them, but into the hands of fortunate owners or speculators. Not only is this so, but in order that the business may continue rents have to be paid on the basis of these inflated values, and hence every increase in value caused by the industry of the farmer becomes a tax on that industry.

These are some of the things that are robbing the rural communities of the fruits of their toil, and causing the depopulation of the rural districts. Chan anyone suggest a same and valid

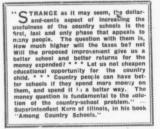
"HE public is not altogether to blame for present conditions," says Profes-sor Fought, in his book on "The American "The teachers themselves Rural School." have hardly realized the shameful injustice worked the school children in a social system which will tolerate the expenditure of over two billion dollars annually for intoxicants and tobacco, while it gives all public education only three hundred million. The plain duty of the teacher is to inform himself of the facts, and then in no uncertain manner launch an "educational campaign" to enlighten his patrons and give them no peace till they realize the situation and act."

reason why some of this wealth, made by the farmers and accumulated in the cities, should not be returned in the form of grants to rural schools? The continuance of this wealth is dependent on the continued efficiency of the productive processes on the farm. Just as soon as the rural districts should cease to supply the material which forms the basis of all commerce, so soon would this wealth cease to exist and any movement that tends to increase the productiveness of the farms tends at the same time to an increase of the wealth of the cities. Not only is this so, but the history of all the past goes to show that the very life itself of all urban communities depends on the country by which they are surrounded. The young, vigorous sons and daughters of the farms migrate to the cities, attain distinction or acquire wealth, and after three or four generations their descendants step down into the lower places or disappear altogether to make way for new blood with the energy and go of the fields and woods. For all these reasons and many others the wealth of the centres of population might fairly be asked to contribute to the uplift and efficiency of the life of the country.

January 22, 1914

The Cement Silo Approved

Samuel Armstrong, Peterboro Co., Ont. I have been very much interested in the discussion in recent numbers of Farm and Dairy on the best kind of silos to build. Mr. Martin asks



whether or not concrete silos in Peterboro county would crumble after some years use by the acids of the silage. As I live in Peterboro county and know of one concrete silo that has been up for 20 years, another for 13, and another for nine, and in each case they are just as good as the day they were built, and look good for conturies.

So far as my observation and experience goes, the round concrete sile stands in a class by itself, away beyond anything else, except in one particular. Being a conductor of heat and cold, the silage freezes more than if the silo were wood or cement block. To get rid of the frost seems to be the great problem. One way in which this can be done is by going down into Mother Earth.

I find that the experience of many has been that the silage is better down near the bottom of the silo. The chief reason for this i believe is that it is away from the frost and air. I have given a good deal of attention to this question as my own silo is built of wood, sitting on the top of the ground at the back of a bank barn. The bottom of the silo is about five feet above the stable floor. I have decided to saw about four feet off the bottom, then dig down about eleven feet, and build up with concrete, using the earth taken out to bank up to the top of the concrete, thus having over 13 feet underground. This will make the floor of the silo five feet lower than the stable floor. By making the lower opening the size of an ordinary door so that one can walk right in with a basket, or better still run a feed carrier in, this ought not to be much disadvantage.

As to having a small silo for summer use, the idea suggested by a correspondent of Farm and Dairy sometime ago looks like a better plan, namely to build your silo as big as you think you will need, then build a thin partition about six or eight feet across the centre, so that onehalf can be used at a time. This will give all the advantages of a small silo with none of the disadvantages.

The Money Value of Breeding

Can we afford to invest money in pure bred stock? Compare these prices with those realized at an ordinary sale of ordinary stock, and then figure what you can afford to invest in a good pure bred sire.

The Johnson Bros. are a couple of wideawake farmers in Huntingdon Co., Que. They have been making it their business for some time back to improve their dairv herd 'w the addition of pure bred cattle and likewise by grading up their dairy herd by the use of pure bred sires. Just recently the Johnson Bros. held a sale. Their pure bred cows averaged \$840 each; their grade cows averaged \$800; their pure bred yearlings averaged \$220, and grade yearlings \$56. One grade cow zeukuly fetched \$276.

January 22, 1914

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Why I Endorse Alfalfa

Walter H. Bowley, Middlesex Co., Ont. I am a small dairyman and breeder of dairy cattle. I am in the business, because it is my hobby or fancy and also for the dollars that are in it. But if I could not raise alfalfa and corn ensilage, and considering the price of more concentrated food that one would have to buy, at least a good deal more of if one did not have these two wonderful fodders, I do not know how one could get very many dollars out of the business. With the help of these two fodders I am sure one can put up one hundredweight of milk 50 per cent. cheaper than without them; and that makes a great deal of difference to the profit side of the business.

To illustrate: In 1909 I had one particular cow in the test which gave 9,400 pounds of milk in the year. She freshened in November of 1908 and produced in the neighborhood of 50 pounds a day.

To make her do this without alfalfa, I had to feed her 10 pounds of mixed grain a day, with hay and corn (not ensilage). She freshened again in November, 1909, and all winter has milked about 37 pounds a day on first-class alfalfa and well matured corn ensilage alone. I ran her this way all winter to discover what alfalfa and ensilage would do, and while I did not get as much milk, you can readily see the profit was much greater than when I fed 10 pounds of grain to get 13 pounds of milk more.

SAME MILK-LESS GRAIN

There is another point: I am sure I could have had the 13 pounds of milk extra if I had started her on a five pound grain ration with alfalfa and ensilage, which I think would have paid two-fold : I would have had 13 pounds more, and my cow would have

thinner than the rest of the herd and a little be-

low my standard. I like to keep them in the pink of condition all the time. It pays.

Alfalfa is not only good for the dairy cow, but we have fed it to every class of stock on the farm with splendid results. We keep a few sheep weed destroyers, and I have taken some of the best red clover hay I had, and given it to them, and then a small armful of alfalfa hay. All at once every sheep would leave the red clover hay and not go back to it till they had finished with the alfalfa.

FOR HOGS AND HORSES

One season we wintered our sows entirely on alfalfa, and they did well and are in good condition. Horses will winter well on alfalfa, and a team at slow work will work as well on alfalfa as they will on coarse or over-ripe timothy hay with four quarts of oats. For driving horses the forage is not as good, as they are very apt to scour. Poultry in the winter seem to relish alfalfa leaves, and to aid winter egg production there is nothing better.

It seems strange to me that on land where alfalfa can be grown successfully (any land that is well drained) there is not more alfalfa grown There are only two reasons that I can think of : First, those who do not know the plant can hardly grasp the idea that it is as valuable as it really is; second, the extra labor required to

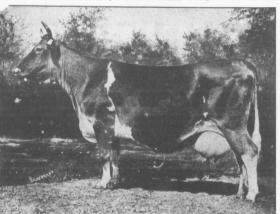
FARM AND DAIRY

harvest it successfully. I think probably the last is the principal reason. Great scarcity of help prevails over Ontario generally. But we sincerely hope that the time will soon come when every farmer-every dairyman in particular-will grow alfalfa, and grow lots of it, too.

Methods of a Sweepstake Winner Jno. W. Van Slyke, Dunboyne, Ont.

It was a pleasant surprise to me to learn that the first prize and sweepstakes has again been won by my herd in the class for cheese patrons with eight to 14 cows. I appreciate this win all the more so because I had not intended to enter until a great part of the summer was gone.

My herd is composed to a large extent of the same cows which won the sweepstakes three years ago. Some of the poorer cows of the previous year have been weeded out and their places filled by the offspring of the better animals. I always



One of the World's Greatest Guernsey Cows-Spottswood Daisy Pearl Une of the worst sufficient suffi

prefer to raise any additions to my herd myself, using my best cows. The present herd consists of seven veterans of the year 1910, and three younger cows, all grade Holsteins. The seven are the product of grade Durham dams and a pure bred Holstein sire. The three are from grade Holstein dams and pure bred Holstein sire. In all cases milking strain figures largely.

Good clover pasture constituted a great part of the summer feeding. When this began to dry up, a soiling crop of oats, sown early in June, was ready and helped out the failing pasture quite acceptably. This oat pasture lasted until the first week of September when sweet corn took its place. Very little grain was fed during the summer months, perhaps about three pounds a cow a day. This was in the form of oat chop.

We try to milk at regular hours. We stop the other work of the farm a little early in order that the night's milking may not be too far distant from that of the morning. I have always carried out this plan and it seems to be a good one. A good supply of fresh, cool well or spring water is always accessible to the cattle. The quality of the herd backed by these methods is the only reason I can give for winning the splendid trophies put up by the Association this year.

Feeding a cow as if she were a public nuisance will make of her a private nuisance-a star boarder.

Yearly Closing of Farm Accounts

Jas. Stewart, Brome Co., Que. Many of my farmer neighbors keep accounts only in order that they may know who owes them and whom they owe. Their accounts never show them just where they themselves stand in the business world. They never close their accounts, that is balance them up, and find out where they stand. I regularly close my accounts and I find that that balancing up will reveal bad management quicker than any other system of which I know

I close my accounts about the first of February. The best time to close accounts is after the activities of one season are completed, the crops sold, and the activities of another seasor. about to begin. It would be impossible to close accounts in the middle of the summer, for in stance, for at that time we cannot put any estimate on the value of our growing crops, as an un-

timely blight or early frost might work considerable injury on them. In February, however, the crops have all been harvested, those that go to market are already there, and we can estimate pretty closely just where we stand.

When we have the balance for one year and then compare it with the balance of the previous year, we are in a position to know just whether our year's operations have been successful or not, and if not, we soon find out why.

The Evil of Blinders

Jas. Armstrong, Wellington Co. That spicy little paper, "The Farm Journal," has a story in a recent issue that I wish to pass on for the benefit of Farm and Dairy readers. On a farm in that country a young thoroughbred mare and a lighter and older mare were hitched together on a plow. The young mare was always ahead as far as the driver would permit, always worrying and fussing and tir-

ing herself more in half a day's plowing than she should have done in a full day. Fortunately the young fellow who drove the team was a man of ideas. In a couple of days he removed the blinders from the bridle of the younger mare, and the results were immediate. The more energetic of the team immediately saw that she was giving her older companion more than the latter could stand, and from the day that the blinders were removed the team worked well This little incident shows brains on together. the part of both the horse and the driver

A couple of years ago I bought a horse at less than its value because it had the "shying" habit. It would bolt at almost anything. The man who had previously owned the horse always used blinders. There isn't such a thing around my farm, and when the horse, a highly nervous animal, found that it could look around and see the things that frightened, it was soon cured of the shying evil.

The fact that my horses became accustomed to automobiles much sooner than most of the horses in the neighborhood I attribute to the fact that they could see freely in all directions: Blinders I regard as an evil.

Warmth is not the first essential in a good winter stable. Good ventilation and light are even more requisite

Large Bolstein Farm in Miagara District

A diversion from the usual Niagara fruit farm is the Hamilton Farms, located two and a halt miles from Niagara Falls. A fifteen minute ride on the St. Catharines trolley line brought an editor of Farm and Dairy, a few days ago, close to these farms, where he was met by Mr. Leach, manager of the stock farm, and shown one of the largest Holstein farms in Ontario, consisting of over 900 acres. Mr. Hamilton also has 100 acres given over to fruit, on which there are 40 acres of peaches. This adjoins the stock farms, Ham This adjoins the stock farms. Ham ilton Farms are not the hobby of a millionaire. They must stand on their own bottom or cease to exist-in other words, be a paying proposition. At the present time there are 100

At the present time there are 100 head of choice grade Holstein females on the farm, about 60 of which are milking; the balance are yearling heifers. Records are kept of all cows milked; none are kept that do not come up to the standard. As a result, 60 head of mature cows have produced from 7,000 to 11,000 lbs. each from April to December 1st. The Withing Machine and gasoline en-gine. Electric power it is expected will be installed shortly. At the cen-tral farm a modern cement block dairy stable was erected this past

have been gathered together after a spring that will be worthy of our clos-lot of careful thought and time on the est attention-animals hard to beat. part of Mr. Hamilton and Mr. Leach. In the selection of this bull Mr. Ham-



1988 The Herd Sire at "Hamilton Farms', "¹⁵8 **3**/**The Herd** Sire'at "Hamilton Farras", Excellent in type and rich in breeding. Frise Rengerveid of the Pontiaes com-blines the blood of the two great producing families—the Fontiaes and the ponti-Korndyke. It is daughtery are already proving his worth, the first tested one hav-ing produced 1566 Bk, butter as a finite two-year-old. Another owned by Dr. Harwood at Vandreuil. Que, is in the Ottawa Dairy Test, and promises well. The Prince is truly a herd header. At "Hamilton Parras" there will be wider scope for his ability.

It is said that a breeder is known by the sire he keeps. In their herd sire the Ham-

ity of this sire should combine with Hamilton Farms' 50 females that are

the choice of many herds in United

Farms ilton have the closest blood of the King of the Pontiacs Canada. The senior herd sire, Prince Hengerveld of the Pontiacs, is well known to every Holstein breeder in Canada as one of the best; in fact he is so well known 18 scarcely more that his name necessary Strong here. individually he combines the choicest Hol-

ilton places himself at once in the

front rank of Holstein breeders. The 50 head of pure bred females epresent most of the prominent blood lines of the breed, and individual perfection of form and udder has been the prime factor in choosing the animals themselves. In addition many animals have been selected eligible for registration in both United States and Canadian Herd Books, in order that advantage may be taken of both markets. Among the choice females may be mentioned Tirania Netherland 3rd with a record of 27.38 lbs. butter in 7 days, 112 lbs. in 30 days, a daughter of Senor Paul de Kol Burke, Jr., who

has five A. R. As nive A. R. O. daughters, all of which range from 19 to 28 lbs. in 7 days, and one of which has a year's has a years production of 895 lbs. but-ter. After milking four months, and being fitstein breeding, being a son of the King of the Pontiacs. He had just arrived at Hamilton Farms from ted for sale is 'still she arrived at Hamilton Farms from Manor Farm, a half interest in him having been secured from Mr. Gordon H. Gooderham. The excellent breed-ing, producing ancestry and popularproducino from 55 to 60 lbs. a day. A cut showing her excellence of form ap-pears on this page. Trixie Bell 22

reproduction

pound cow from the Wilbur Prouse pound cow from the Wilbur Prouse herd, is another grand individual of the herd. Her sire Centreview Piet-erje, already with six A. R. O. daugh-ters, was by one of the best sons of the famous Sir Pieterje Posh and Ver-bella 4th, a Pan-American prize win-ner. Her dam, an imported cow, has a record of over 100 lbs. milk a day, some of the choice breeding

some or THE CHOICE HUBERING Bonnie Wavne Hesselije, a beauti-ful 2 year old, is by a son of Pontiac Hesselije De Kol, a great producing son of Hengerveld De Kol and Hessel-ije 4th, and a brother of Pontiac As-calon, 28.18 lbs. This heifer has a jr. 2 year old record of 13.50 lbs. in 7 days, 50.24 lbs, in 30 days. She and her four-year-old half-sister, Griselda Lady Wayne's 2nd Bonnie 2nd, the latter as good an individual as her younger sister, and now springing to calve, were imported from Ohio. In

the same importation were two three yr.-old half sisters, Jennie Seer and Max, in whom individuality and production and high butter fat test are combined in the highest degree. They are daughters of Prince Ormsby Boy, whose sire, Sir Mutual Ormsby, was a half brother to Sir Admiral Ormsby. so well known in Canada. Prince Ormsby Boy, in a small herd of 30 head, produced five daughters with two and three year records up to 21 lbs., and had two 30 lb. sisters. Jennie Seer has just completed an 18.29 lb. record, testing over 4.5 per cent., while Max is on test now and will while Max is on test now and will make about 21 lbs., testing as high as her sister. Maple Grove Minnie, with a two year old record of 12.34 lbs., whose sire Mercena Sir Posch with seven R.O.M. daughters, was a son of Mercena Jrd, 27.62, and whose dam Belle DeKolQueer 2nd, 15,1447.25 son of Mercena 3rd, 37.62, and whose diam. Belle DeKolQueen 2014, 15.1447.25 lbs. milk at two years, and her year-ling heifer and heifer call by Pledge Houwije Komdyke, at grandson of Ponita Korndyke, out of Ponithin hure generations, the blood of Pon-tiac Korndyke, De Kol 2014, Burter Boy 3rd, Prince Pauline De Kol and Mercena 3rd, a combination of which any herd might be proud. Oscoola De Kol Beryl Wayne, a dauhter of Duchess Aagzie De Kol Beryl Wayne, it zeroord daughters, and full sister to Bliske Clothide Beryl Wayne, with 21 record daughters, is one of the superior individuals in the herd; her inmediate ancestors are making grand records. She is also a heavy producer. Two big roomy cows

heavy producer. Two big roomy cows are Phocis Korndyke, a large 17 lb. three year daughter of Mantel Korn-dyke and Canary Queen DEKOI, a 19 lb. high testing cow whose dam has two and grand sire 10 A.R.O. daugh-

Among the large number of thrifty young stuff coming on are six year-ed



The Desirable Kind of Foundation Stock

Tyrania Wetherland Rd, a six-year-old, has not only the finest of conformation but predictive ensembly as well. Her sevenday 1020 butter and 2.700 of mills. Her lower treoord Mitter has 21.2 lbs butter per week. With Hengerveld of the Pontiace she should have outputing that will be at the front in production and

daughters of a son of Chanjeling But-ter Boy, 50 A.R. daughters, whose sire, Pontiac Butter Boy, 57 A.R.O. daughters, is a brother to the great trio of bulls Hengerveld De Kol, Piet-erje Hengerveld's Count De Kol and erge Hengerveid's Count De Kol and De Kol Burke. The dam of the sire of these heifers has just completed a record of 30 21 lbs. in 7 days, a daugh-ter of Tidy Abbekirk Prince, 33 AR. O. daughters. The dams of some of these are Elmdale Maid, 30 lbs. at these are Eimdale Maid. 20 10s. at three years: Springbrook Oueen Can-ary 2vd. 24 39 ibs: Lady Netherland Oueen. 20.68 1bs: Prince Ena De Kol, 16.51 lbs. at 3 years old. This bunch for breeding and individuality are hard to beat.

Other good heifers are Elmdale Floss by Dutchland Colantha Sir Ab-bekirk, a son of Colantha Johanna and a 28 lb. daughter of Tidy Abbe-(Concluded on page 23)



Another Big Producer with Quality Breeding

This is Tritle Belle 2nd. She has 22 that to her credit. Her dam gave over 100 ba, milk in a day. She is a grand-daughter of Sir Pietertje Posch and Verbella 4th, the latter the winner at the Pan American.

It is in the form of a to the big bank barn. In this addi-tion 55 cows are stabled, tail to tail, with a passage wide enough to admit wagon or sleigh in removing manure. It is particularly well lighted, very sanitary and insures healthy cattle.

NUCLEUS OF PURE BRED HERD It is Mr. Hamilton's intention to spose of all the grade cattle immediately, which by the way is a great

opportunity for those who are looking for something real good in test ed grade cows you are anxious to buy it would nay you to get in touch with them at once, they 28 tend clearing them out and developing the pure bred Holsteins entire-ly, of which there is a beautiful herd of 60 head at the present These time.



Max, one of the choice three-year-olds, comes from a line of heavy milkers. She is a grand-daughter of Sir Admiral Ormsby, and has a big future ahead as she combines both heavy produc-tion with high butter fat test.

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WESTERN ONTARIO DAIRYMEN TAKE AN OPTIMISTIC VIEW OF FUTURE

Trade Conditions Make Record Prices for Dairy Products Inevitable in Canada. Also Much Plain Talk Regarding the Quality of Butter and Cheese at the Convention of Western Ontario Dairymen at Stratford Last Week

was the prevailing tone of every ses-sion of the 47th Annual Convention of the Western Ontario Dairymen's As- the question of cheese boxes proved a ociation, neld at Stratford last week. Optimism was reflected in the ad-dresses from the platform and in the discussions in the corridors. Presidiscussions in the corridors. Presi-dent Facey voiced the feeling of the meeting in his opening address. "The outlook is bright for those engaged in the dairy business," said he. "The increased market for cattle and dairy products have produced a demand for cattle in Ontario that has advanced the price at least 25 per cent. in the past year. The quantity of milk and cream required in our cities has made a good market for our products." The directors' report was equally

"Present indications, optimistic. the report read, "point to a strong future demand for all the dairy products that can be produced in Canada, and we believe that milk producers will in the next few years reap large profits in dairying. The outlook for good prices was never better." RECORD CHEESE PRICES PREDICTED

These clean-cut statements indicate the tone of the Convention. The very conditions that are causing the city householder of moderate means such anxious thought are playing di-rectly into the hands of the dairy tarmer. The situation was well sum-marized by R. M. Ballantyne of Mon-treal in the closing hours of the Con-Mr. Ballantyne traced the vention. decline of the export business and then proceeded to the subject of United States markets, "Over a very (over so far large territory," said he, "even so far north as the Lake St. John district in Quebec, a tremendous number cattle have been shipped out of the country. Many of these were old country. Many of these were of cows. A tremendous number, how-ever, were calves. It will not be pos-sible to replenish our herds for five years at least, and for all of that time there will be a beef famine. This famine will take more calves; and dairy herds will be more slowly replenished than any. I predict that our exports of cheese will fall off several hundred thousand boxes, and that next year you will see the high-est prices ever paid for cheese in this country.

"Butter prices," continued Mr. Ballantyne, "cannot the world's markets, Ballantyne, "cannot go higher than he world's markets. Cheese prices, lowever, depend on the Canadian and New Zealand supply. No other coun-tries are prepared to make cheese. The New Zealant make is increasing wonderfully, but not so fast as we are declining. In the last 10 years, in instance, our exports have declined 1.300,000 boxes, but their's has in-1,300,000 boxes, but their's has in-creased only 8,091,000 boxes. In the creased only o, way we bused only of the high prices that are coming is the opportunity of the dairy farmer." PLAIN TALK FOR MAKERS

Dairymen have much for which to ongratulate themselves. Everything congratulate themselves. at Stratford, however, did not go as pleasantly as a marriage feast. Much plain talk was indulged in, particu-larly on the second day of the convention, the cheese and butter makers being the victims. Mr. Robert Johnof Woodstock criticised severely son the boxing of cheese. In many cases 35 per cent. of the boxes reaching his factory were broken, and this breakage was due in large measure to carelessness in stowing them in the cars. Mr. Johnson opined that the factory should be responsible for this breakage, He also noted carelessness in

D AIRYMEN of Western Ontario boxing, some boxes being two inches are fully alive to the advantages short of the size of the cheese and that changing conditions are other two inches long. "Why," he bringing to their industry. Optimism asked, should the buyer be expected asked, should the buyer be expected to trim boxes?"

As at the E.O.D.A. Convention, sticklet. Many are green and poorly Green heads are a of "wet ends" in o made source of in cheese Source of "wet ends" in cheese. Speaking from the maker's stend-point, Mr. J. N. Paget said that manufacturers were very independent and that makers had to take what the manufacturer would give them, or do without. The advisability of giv-ing the New Zealand crate a trial was discussed and viewed favorably many makers and dealers.

WESTERN ONTARIO BUTTER CRITICIZED If cheese makers heard plain talk regarding their failings, they must have considered that they had got off easily when Mr. I. W. Steinhoff was through with his candid criticisms of Western Ontario butter. Poor flavor and coarseness of texture he mentioned as the most common defects. Poor boxes and practically no finish almost equally common. For proof that Western Ontario butter not as good as it should be, Mr. Steinhoff referred regretfully to the winnings of Eastern buttermakers, particularly from Quebec province, and of buttermakers from Alberta, in large fairs year after year. OUT Why, satisfied in view of these conditions The trouble, he said, started at the farm in poor handling and infrequent hauling. Both Mr. Steinhoff and Mr. Bal-

lantyme directed particular attention for the growing preference of con-sumers for a butter mildly salted; not over three per cent, "British Columbia consumers," said Mr. Bal-lantyne, "will pay two cents more for New Zealand butter because of its mildness and uniform quality. The best trade in our own cities wants two per cent. butter, as does also the best Eastern trade."

RESULTS FROM CREAM GRADING The discussion was not altogether destructive. Mr. Geo. H. Barr showdestructive. Mr. Geo. R. Bart and ed the way to improve quality in his discussion on "Grading Cream at Cream Gathering Creameries." On-Cream Gathering Creameries." On-tario butter, he admitted, is not pop-ular in the West, where they are steadily improving the quality of their own make by paying for cream on its merits. Mr. Barr made special Mormon settlement at that," where in the four weeks prior to adopting the arading system the butter from the factory graded 4.2 per cent. specials, 34.9 per cent. firsts, 56.2 per cent. seconds, and 4.7 per cent. off-grade. seconds, and 4.7 per cent. off-grade. Cream grading was adopted the first weeks in July and in the next seven weeks 61.7 per cent. second, and 1.1 per cent. off-grade. In his annual report, secretary

his annual report. Brank Herns was particular to conimpression that dairy fac-Western Ontario are dein number He noted a from cheese to butter in numeraus instances, but the total num-ber of factories is still the same. One eg(1)115 hundred and fifty-three cheese fac-tories supplied by 10,031 patrons were tories supplied by 10,051 partons were in operation last year. Although Mr. Herns had not definite figures for the whole province, it is known that 102 of these factories made less cheese in 1918 than in 1912. He noted with pleasure a decrease of 39 in the num Continued on were. 110 (Continued on page 11)

profitable cow ration

Caldwell's Dairy Meal is not an experiment, but the result of a great many experiments conducted under the supervision of the greatest feed experts in Can ada. Here's all that

Caldwell's **Dairy Meal**

contains: Cluten Feed, Cotton Seed Meal, Dried Grains, Barley, Malt Combings, Molasses Meal.



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AGENTS We will pay you well to hustle in your district for new sub-scriptions to this practical journal. FARM AND DAIRY, Peterboro, Ont

Seed Oats For Sale IMPROVED AMERICAN BANNER

This year 1 offer about 200 bub, grown direct from registered seed purchased last spring at a high price to renew and im-prove, if possible, my seed stock. It was great yield. I have also a large another the set

event yield. I have also a large quantity grown from my own original stock that has given and, good attifaction, no onby the strains have been grown on clean land, carefully hand picked. While grow-ing, are as pure and clean as is possible or make them, and are very bright and

Plump. Further particulars, samples and prices on application. A. FORSTER - MARKHAM, ONT.

AND (MADDE

Mistakes in Cherry Growing*

rise 26 years ago there were no com tears ago a defided to make a tear mercial orchards in this locality. If for my own satisfaction, and planted was to be expected that these who a block of 13 rows, 20 trees to the led in this, as in every new enter-row, six rows on Mahaleh and seven led in this, as in every new prise, would make many mistakes, and I have fulfilled expectations. My mistakes may keep others who are now setting large orchards of this fruit from learning in the expensive school of experience.

My first plantings were made 15 trees feet apart both ways. No sooner died had the trees attained good bearing only capacity than the lower limbs began dying and the tops to go skyward. This made picking the fruit a new proposition. While the fruit a new small women did nearly all the pick-ing, and they were the best help we have that but with the schedule we ever had; but with the advent of longer ladders they soon gave up the business or went to younger orch. Boys and girls and Italians ards. took their places, and a change was made from day wages to piece work. A MISTAKE IN PRUNING

To prevent the trees from growing too tall I tried head back, the same as with peaches ad plums. This proved to be only multiplying mis-takes. Let me warn veryone against takes cutting back chorr He will ithout improving only spoil the the lower bearing my oldest trees the limbs failing every year I cut out every other tree in diagonal rows, and was rewarded by seeing the remaining trees make new growth on the lowest branches, set buds and bear fruit again. Of course, they will never be what they would have been if they had had room to spread naturally. Thirty feet apart is too far for sour cherries, but my trees at this distance are still a lot better than no trees.

renewed the top of a block of English Morello trees that were fast dying out by dehorning the entire trees, and the crop of fruit they gave last summer was the wonder of those who saw it.

VERY SEVERE CUTTING BACK

Emboldened by this I took a block Emboldened by this I cook a book of old Montmorency and instead of cutting out every other tree cut the limbs back to within 12 or 14 inches of the stump, leaving one limb in the Much centre to keep the tree alive. Much to my surprise, they are all making to my surprise, they are all making a new growth, giving promise of a fine new top when the remaining limb is also cut hack. The recupera-tive power of a sour cherry tree is greater than anyone would believe before he to tried before he has tried.

object in shaping trees is to The collect in shaping trees is to pive them spreading tops, as near to the ground as possible. To do this the trees should not be planted closer The than 18 feet. My latest plantings are 10 by 18 feet, intending to remove every other tree in the 10-foot row as soon as they begin to crowd. Before that time they will bear enough fruit to more than pay the cost of the trees.

Dest STOCKS POR OTHERENES For years there has been a stand. Ontario Plowmen's Association. Feb. 3. 1014. The horizon proving the Mabaleb and se being a much longer the Mazarri as being a much longer er, B.C. writes: "I consider Farm and Dairs's stand against question.

*Excerpts from address read before the able Western New York Horticultural Society. wort

thoroughly instructed in this belief Mistakes in Cherry Growing C. K. Scon, (nitrio Co., N.Y. When I began and went to consider When J began and went to consider when I began and went to consider trees on the Mazard stock. But 15 riss 20 years ago there were no com-years ago I decided to make a test to secure k. But 15 rows on Mazzard, and have treated both kinds exactly alike ever since. When they first began to bear the

far too heavily Mahaleb trees bore and the fruit was much smaller than on the Mazzard. In a few years the trees showed signs of weakness; 10 trees showed signs of weakness; 10 died and saveral others were saved only by severe pruning, while only one tree is missing to day from the Mazzards. I added my condemnation of the Mahaleb trees and the nursery. en who sold them. n

Five years ago I began an annual fertilizing of my orchards with heavy applications of stable manure, when, to my surprise, the Mahaleb trees re-sponded much more freely than the sponded much more freely than the others, making a longer wood growth. foliage resisting blight, and holding on much better and having decidedly heavier crops of fruit.

Rules for Windbreaks

Place the windbreak at right as to the direction of injurious angles prevailing winds.

Devote from one-eighth to onefifth of the farm to timber. Its pro-tective value more than pays for the ground it occupies, to say nothing of the timber yield. 3. Plant only species suited to

windbreak use, to the region and to the locality.

Plant rapid growers for quick 4. Plant rapid growers for quick results; but underplant with slower growing species, which are usually longer lived and more valuable. 5. Supplement a deciduous windbreak with evergreen, to afford pro-

tection in winter.

Separate trees by the spacing 6. proper to the species used. The trees should be close enough to produce a dense windbreak and to yield good poles, but should not be so crowded as to produce spindling growth

Make the windbreak thick fro 7. Make the windbreak thick from the bottom up, especially on the side toward the wind. This may be done by using species which branch near the ground, by planting outside rows of low growing trees, by encouraging optimized reproduction, and by under-meastive.

planting. 8 Cultivate the plantation thor-

Califyste the plantation ther-oughly while it is young.
 Do not allow excessive graving where reproduction is desired.
 Do not thin your wood lot too heavily or take out the best trees for minor uses. Remember that a tim-ber tract should be improved by use, and that each clearing should leave it in better condition than before. — U. S. Dept. of Agriculture.

The following conventions will be held in the Canadian Foresters" Hall College, Stroet. Toronto: Fairs and Exhibitions. Feb. 5 and 6, 1914: Ontario Plowmen's Association. Feb. 3, 1914.

er, B.C., writes: I consider Parm and Dairy's stand against question-able and objectionable advertisers worthy of every support."

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Put into your ground a fertilizer that will feed not your already overstocked soil but your hungry crops with food which is available and easily absorbed.

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have chemically correct elements-there is a brand to fit nave enemically correct elements—incret is a ordand to fit overy need. More than that, these chemicals are blended and mixed so that they are rendered water-soluble and go into your ground in the most available form. Most crops do most of their feeding in 60 days.

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January 22, 1914

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Seed Corn SALE

A quantity of choice hand selected ougfellow, Compton's Early, White Cap, ceming and Wisconsin No. 7 Seed Corn. Irders solicited. · CHATHAM, ONT. J. S. WAUGH .

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etc., write to H. A. MACDONELL, Director of Colonization, Parliament Buildings, Toronto, Ontarlo







There is usually a longer neck to the gander and a somewhat coarser head, but other than this the appearances are pretty much the same.—F. C. Elford, Dominion Poultry Husbandman.

Tuberculosis?

I have lost about 40 hens. They get lame, have white diarrhoea and just gradually become weaker and weaker un-til they die. They seem to eat though ill they get so weak they cannot get to the food. I have destroyed a number of them.-T. W. D. Hastings Co. Ont.

The symptoms point very much to tuberculosis, and I would suggest that your correspondent send a sick hen, by express, to Dr. Higgins, Bac by express, to Dr. Higgins, Bac-teriological Office, Experimental Farm, Ottawa. This can be sent col-Farm, Ottawa. This can be sent col-lect. In the meantime isolate all sick birds; clean out the hen houses and disinfect thoroughly, and those that are not bad enough to kill, give in the drinking water muriatic acid at the rate of one spoorful to a quart of water. Let them have nothing also the drink extent the contains the else to drink except what contains the acid.—F. C. Elford, Dominion Poultry Husbandman.

Poultry Diseases

Tuberculosis has wiped out a large number of flocks. It affects the liver and intestinal tract in the majority of

Sick birds should be removed from the flock and dead ones burned, in an outbreak of any disease. White diarrhoea of chicks is caused

by a germ which is often passed from the hen to the chick through the egg. It is a wise precaution to furnigate your incubator with formaldehyde gas before placing the eggs in it for hatching.

hatching. Be careful in introducing new birds into your flock to see that they are perfectly healtby, and not likely to bring disease with them. The disease called "scaly legs" is caused by a mite belonging to the same family of parasites that cause mange in sheep, cattle and other farm animals.

animals. A dusting powder for ridding birds of lice may be prepared by mixing equal parts pyrethrum (insect pow-der) and flowers of sulphur. Apply it with a powder gun. Poultry diseases, just like other di-seases, are favored by unsanitary sur-roundings, spoiled food, stale and dirty drinking water and poorly senti-lated and insufficiently lighted coops.

Many good chickens are spoiled by being packed before they are thor-oughly cooled. Care should be taken that all the animal heat is out of the body before the fowls are packed.-Prof. W. R. Graham, O. A. C., Guelph.

A glass front poultry house causes A glass front poultry house causes extremes in temperature, warming up in the day time and then turning cold with the setting of the sun. This is also apt to cause disease and make the fowls' combs and wattles more sensitive to frosts. The open musin front is by far the best and at the same time the least expensive. Some glass may be used, but not above.



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WHY DIDN'T YOU eat more eggs and chicken pot pie last see eggs were 4c and 5c each, and chicken equally out of

"OUR PEOPLE" have already recognized the value of poultry on their farms. Ninety-sine per cent of them are poultrymen. It's no longer a more did-line of farming. It's one of the branches of the farm that fur-nishes an excellent income. Ask the housevives about it.

THE FEBRUARY 5 SPECIAL POULTRY NUMBER of Farm and Dairy Il give our advertisers one of the best sales privileges of 1914. It will go over 18,000 of our thrifty, progressive farmers.

THIS BIG NUMBER will contain a wealth of spicy information from our practical and leading authorities.

"OUR PEOPLE" appreciate these Apocials. Our dairy breeders were pleased with our big Hreeders' Magazino Number. Space in it had an added value to them, and our December 4th issue carried 50 times as much live stock as our previous issue.

OUR POULTRYMEN are anticipating our February 5th Special. So it's up to you to come along right away for the good service this number will give you. Reserve it now. Bon't come too late. Better drop us a line to-day. ADVERTISING DEPARTMENT



Farm and Dairy - Peterboro, Ont.

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FARM AND DAIRY

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Farm and Dairy's Referendu

Farm and Dairy believes that the will of the people should decide a questions of public policy. We believe that the Referenciam is the best way to find out exactly what the people think. Accordingly we will hold a Referendum in the issue of Farm and Dairy for danu-ary 28, by which readers, men and women alike, are invited to express their opinion upon eight questions of pressing matternal importance. should decide all

> consisting and the service of the se and the various other problems men-tioned. By addressing themselves to these up-to-date issues, Our Folks will not only stamp themselves as the true Progressives in this country, but will also do themselves a lasting

THE QUESTIONS

| | a second the second sec |
|--|--|
| | Are you in favor of Dominion Legislation providing for the in- corporation of cooperative societies? |
| 2. | Are you in favor of having the Government own and operate all (a) Express Companies? |
| | (b) Telegraph and Telephone Companies? |
| | (c) All Railways? |
| | Are you in favor of extending the franchise to women on equal terms with men? |
| 4. | Which would you prefer- |
| | (a) Sending \$35,000,000 to the Imperial Government as a tempor- ary gift, to be expended for naval defence? |
| | (b) Expending \$35,000,000 to start a Canadian Navy? |
| | (c) Not spending any money for either purpose, but spending hundreds of thousands of dollars, if necessary, towards the estab- lishment of universal peace and disarmament, and the settlement of international disputes by arbitration? |
| 5. | Are you in favor: |
| | (a) Of increasing the British Preference to 50 per cent. ? |
| | (b) Of increasing the British Preference year by year until within |
| | from five to ten years we shall have complete free trade with the Mother Land? |
| 6 | Are you in favor of raising by a tax on land values only, |
| 0. | (a) All school and municipal taxes? |
| | (b) All Customs taxes, thereby making the adoption of complete |
| | free trade ultimately possible? |
| | (c) If not in favor of having all Customs taxes abolished, do you favor the removal of the duties on agricultural implements and having the Dominion Government raise the necessary revenue by a direct tax on land values instead? |
| 7 | Are you in favor: |
| | (a) Of the Dominion Government granting money for the improve- ment of highways, and designating, in consultation with the Pro- vincial Governments, where and how such money shall be ex- pended? |
| | (b) Would you prefer the money so granted should be expended |
| | under the control of the County Councils? |
| 9 | Are you in favor : |
| 0 | (a) Of the Referendum? |
| | (b) The Initiative? |
| | |
| | (c) The Right of Recall? |
| 1 in 19, be Fa 2 a th 21 m 3 | RULES The official solutions with the sublished prime and lab ballots with the sublished of the sublished prime and lab ballots with the sublished of the sublished prime and ballots with the sublished prim |

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a m-ur (u) the question. A fract ballot will be absolutely severet. A frac ballot will be absolutely severet. I ours at their balance, discuss the ballot, otherwise it will be rejected as a spolic ballot. No make up deter, minds every ballot, and the ballot and the ballot and the ballot and the name, beeret, minds working "Yes" or "No" on the questions. 5 The ballot should be mailed to retere and them follow. Here, and them will be ballot retere and the follow. The ballot and the ballot and them will be retered as a party leaning or the personality "Reterendum Relitor, Farm and Danky them will be ballot retere and them will be ballot and the ballot retered ballot and the ballot and the ballot retered ballot and the ballot and the ballot retered ballot and the ballot ballot ballot retered ballot and the ballot ballot retered ballot ballot ballot ballot ballot retered ballot ballot ballot retered ballot ballot ballot retered ballot ballot ballot retered ballot ballot retered ballot ballot ballot retered ballot ballot retered ballot retered ballot retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning or the personality retered ballot so a party leaning

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Western Ontario Dairymen · (Continued from page 7)

ber of prosecutions for adulterating milk as compared with last year, which shows that adulteration is rapidly degreasing. The number of creameries shows an increase from 58 in 1907 to 123 in

1913 and in 1912 Western Ontario pro-duced 13,839,130 lbs. of butter, or double the amount produced in 1907; 29,081 patrons send their output to creameries. Mr. Herns then dealt with experiments that have been conducted on the cooling of cream under his supervision. This portion of Mr. Herns' report will be given in a fut-ure issue of Farm and Dairy. The financial statement showed re-

cepts of \$4,933.90, and expenditures of \$4,615.32, leaving a balance on hand of \$318.67. The directors re-ported a membership of 330 last year. Officers for 1914 were elected as follow: Pres., J. B. Muir, Ingersoll; 1st Vice-Pres., Robert Myrick, Spring-1st Vice-Pres., Robert Myrick, Spring-ford; 2nd Vice-Pres., Romes Bristow, St. Thomas; 3rd Vice-Pres., R. W. Stratton, Guelphi, Scc. Treas., Frank Herns, London; Audiors, J. A. Nelles, London, and J. C. Hegler, Ingersoli, representatives to Western Fair, J. Brodie, Mapleton, and F. Herns, London; representatives to Canadian National Exhibition, Tor-onto, F. Herns, and Robert Johnston, Woodstock. There was but one change in the directorate, J. Mc-Hover of burgessville taking the place of the reting president, S. E. Facey. ternal Bathing is even more essential to perfect health than External Bathing, I believe that everyone should know its origin, its purpose and its action beyond the possibility of a misunderstanding. E. Facey.

PROGRAMME OF ADDRESSES

The possibilities of profit from the manufacturer of soft cheese were brought before the makers in a startbrought before the makers in a start-ling way at the Wednesday evening session, when Miss Bella Millar of Guelph stated that it is quite pos-sible to sell buttermilk or skim milk the despair of nations competitive to us in business, but establish us as a shining example to the rest of the world in our mode of living. sible to sell outtermilk or skim milk in the form of fancy cheese for \$5, that in the raw form would bring but \$1. She noted a growing de-mand on the part of Canadian con-sumers for a variety of cheese, and much is being imported. Creamerics, she said, might have one variety of soft cheese as a side line. This the Eaton creamery is doing. Miss Millar then spoke enthusiastically of the possibilities of cheese in the diet the satisfaction of an real students of business that the most successful man is he who is sure of himself, who is optimistic, cheerful and impresses the world with the fact that he is as a means of reducing its cost and then brought down the house when she closed with "if you can't make both ends meet, make one end supremely confident always-for the world of business has every confi-dence in the man who has confidence cheese

At the same session, Hon. Jas. Duff, Minister of Agriculture, addressed the convention, laying par-Ontario crops as compared with the much-lauded grain crops of Western that we inject enthusiasm, "ginger," and clear judgment into our work, and have a tremendous advantage Canada. Another much appreciated speaker was Mr Duff's predecessor, Mr. Nelson Monteith, who was strong in his claim that the money made in the country should be spent in in his claim that the money made in the country should be spent in the country. He opined that a "clay back" was a much better place for a farmer's investment than a "city back." Mr. J. H. Grisdale gave an illustrated lecture on stable construc-tion, dealing with the various forms of interior and exterior barn plans. WHER a "source" mestor.mo Now the practice of Optimism and Confidence has made great strides in improving and advancing the general

efficiency of the Canadian, and if the mental attitude necessary to its ac-complishment were easy to secure, complete success would be ours. WHERE A SCRAF RESULTED Larger farms, larger herds, and mechanical milking were advocated by Prof. H. H. Dean. "These inno-vations are necessary," said he, "or Unfortunately, however, our phy-sical bodies have an influence on our mental attitude, and in this particu-lar instance, because of a physical condition which is universal, these nucl-to-be-desired aids to success are inversible accessible exists. vations are necessary," said he, "or the checes business will go nearer to the chece business will go nearer to the wall than it is now." So little milk is produced in many sections that hauling costs are too high, and this Prof. Dean cited as a large fac-tor in changing cheese factories into creameries. Many of the small and poorly equipped factories he predicted would go to the wall anyway. He advised strongly against communities carrying all breeds of celle. "Let impossible to consistently enjoy. carrying all breeds of cattle. "Let us specialize," said he, "as they do in older countries.

The greater portion of Prof. Dean's address was devoted to the marketing he claimed that the spread in price between producer and consumer was between producer and consumer was too great. The responsibility for this spread he placed on the wholesaler and retailer, contending that 10 per cent. of the retail selling price should carry the cheese from the factory to the consumer. In this contention the meaber cross stores that the second second

of recent times-I refer to the appeal

for Optimism, Cheerfulness, Efficiency and those attributes which go with them, and which, if steadily prac-ticed, will make our race not only

These new daily "Gospels," as it were, had as their inspiration the

ever-present; unconquerable Canadian Ambition, for it has been proven to the satisfaction of all real students

If our outlook is optimistic and our

confidence strong, it naturally follows

over those who are at times more or less depressed, blue and nervously fearful that their judgment may be

wrong—who lack the confidence that comes with the right condition of mind, and which counts so much for

in himself

The greater portion of Prof. Dean's meeting, when they had a heart to future issues, and Our Folks will address was devoted to the marketing heart talk with the professor. To have an opportunity of getting almost problem, taking cheese as an example them the contention that railway as much benefit from them as did he claimed that the spread in price charges could be met, shrinkage and those who were present at either of them the contention that raiway as much bencht itom them as did charges could be met, shirikage and those who were present at either of waste accounted for, storage charges the two conventions. The Conven-paid up, and the cheese cut, parcelled tion closed with the presentation of and delivered for two cents a pound trophies by Mr. Geo. G. Putnam. appeared nothing short of ridiculous. Other addresses were for the most

Other addresses were for the most part a repetition of those given at . A free short course will be held at Cornwalt and summarized on pages Maedonald College, Que., Feb. 9 to 16 and 27 of this issue of Farm and 11 inclusive, when all phases of hor-Dairy. The great majority of these ticulture will be thoroughly discussed the consumer. In this concentration and communication of Farm and 14 inclusive, when all phases of dealers present who, however, reserve Dairy. The great majority of these ticulture will be thoroughly dise ed their comments until after the addresses will be given in full in by practical and scientific men.

What and Why Is the Internal Bath?

By C. Gilbert Percival, M. D.

Though many articles have been lowed to exist too long becomes | Drugs force Nature instead of aswritten and much has been said re- chronic and then dangerous.

cently about the Internal Bath, the Nature is constantly demanding Nature and is just as simple tural as washing one's hands. fact remains that a great amount of one thing of us, which, under our ignorance and misunderstanding of present mode of living and eating, it ignorance and misunderstanding of present mode of living and eating, it brugs, oring taken through the is impossible for us to give-that is, stomach, sap the vitality of other still exists. and end uncertain the colon, ough consistent physical work or ex- which is not called for -- Internal ough consistent physical work or ex-ercise to eliminate all waste from And, inasmuch as it seems that Inthe system.

> If our work is confining as it is in almost every instance, our systems cannot throw off the waste except ac-cording to our activity, and a clog-ging process immediately sets in.

This waste accumulates in the colon Its great popularity started at about the same time as did what are probably the most encouraging signs (blue, because, it is, intensely poisonous, and the blood circulating through the colon absorbs these pois-ons, circulating them through the system and lowering our vitality generally.

That's the reason that biliotisness. It is rather romarkable to find, at and its kindred complaints make us what would seem so comparatively ill 'all over.' It is also the reason late a day, the seem so the seem of the that this waste, if permitted to re-on the old methods the reason ing as this new process, for in a erude structive germs, which are always way it has, of course, been practized that the structive germs. Ill "ai over." At is also the reason late a day that this waste, if permitted to re- on the old main a little too long, gives the de-structive germs, which are always way it han present in the blood, a chance to gain for years. the upper hand, and we are not alone inefficient, but really ill - seriously, sometimes, if there is a local weakness

This accumulated waste has long eeen recognized as a menace, and Physicians, Physiculturists, Dieti-tians, Osteopaths and others have been constantly laboring to perfect a method of removing it, and with partial and temporary success.

It remained, however, for a new, rational and perfectly natural pro-cess to finally and satisfactorily solve the problem of how to thoroughly eliminate this waste from the colon without strain or unnatural forcing - to keep it sweet and clean and healthy and keep us correspondingly bright and strong—clearing the blood of the poisons which made it and us sluggish and dull spirited, and mak-ing our entire organism work and act as Nature intended it should.

That process is Internal Bathing with warm water-and it now. by the way, has the endorsement of the most enlightened Physicians, Physical Osteopaths, etc., Culturists. who

have tried it and seen its results. Heretofore it has been our habit, when we have found by disagreeable, and sometimes alarming symptoms, that this waste was getting much the better of us, to repair to the drug shop and obtain relief through drug-

sisting her-Internal Bathing assists Nature and is just as simple and na-

Bathing washes out the colon and reaches nothing else.

To keep the colon constantly clean drugs must be persisted in, and to be effective the doses must be increased. Internal Bathing is a consistent treatment, and need never be altered any way to be continuously effective.

No less an authority than Professor Clark, M.D., of the New York Col-lego of Physicians and Surgeons, says: "All of our curative agents are poisons, and as a consequence every dose diminishes the patient's vital-ity."

It is probably no more surprising, however, than the tendency on the part of the Medical Profession to depart further and further from the custom of using drugs, and accom-plish the same and better results by more natural means: causing leas strain on the system and leaving no strain of the system and leaving no stril affra-discis. evil after-effects.

Doubtless you, as well as other Canadian men and women, are in-terested in knowing all that may be learned about keeping up to "concert pitch." and always feeling bright and confident.

This improved system of Internal Bathing is naturally a rather difficult subject to cover in detail in the pub-lic press, but there is a Physician who has made this his life's study and work who has written an interesting work, who has written an interesting work who has written an interesting of Today is Only Fifty per cent. Efficient's is Only Fifty per cent. Efficient's tryone addressing Charles A. Tyrrell, M.D. Room 309, 280 Col-lege Street, Toronto, and mentioning that they have read this in Farm and Dairy.

It is surprising how little is known by the average person on this sub-ject, which has so great an influence on the general health and spirits.

My personal experience and my ob-In other words, our trouble, to a great degree, is physical first and gring. This is partly effectual, but there and i firmly schness as in health, trouble is simple and very easily corrected. Yet it seriously affects our partly with Internal Bathing. 111111111111

HIGHEST PRICE FOR CRI

T. EATON Courte is now paying 34c. per lb. for Butter We buy cream, sweet or sour, of good flavor. We Fat. furnish the cans and pay the express charges within a radius of 250 miles of Toronto.

We test and weigh each can on arrival, and send you a statement for same.

We pay all patrons once a week, and the price is increased as the price of butter advances.

Drop us a card, and we shall be pleased to furnish you with any further information you may require.

T. EATON COLIMITED CANADA

AT THE EASTERN ONTARIO DAIRYMENS' CONVENTION

There was no subject dealt with of more importance than the keeping of young people on the farm, interested and happy.

We all realize this to be a problem that is defying many farmers as the present time. The result is, the boys and girls are all too fast removing to the cities.

That boy or girl must have something that is of special interest to himself or herself, something they can call their own and that they take a pride in.

We want to give him or her a pure bred pig of any of the popular breeds.

PARENTS

You should use your influence on your boys and girls to have them win one of these pigs. It may mean the keeping of your son or daughter at home. It may be the starting of his breeding pure bred stock in all lines.

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Name Address

Prof. J. W. ELWO

subscribers.



Best Calf Dehorner

Instead of dehorning calves by the painful method of sawing or clip-ping, caustic potash should be applied as soon as the "button-like" horns can be felt. ping, caustic potash should as soon as the "button-like" horns can be felt, after the calf is three days old. There is no danger that the calves will suffer from blood poisoning or other infection of the wound. The College of Agriculture of the University of Wisconsin has used this treatment for the past few

years with greatest success. The application of the caustic potash should not be postponed, or it may give unsatisfactory results. To may give unsatifiatedry results. To apply the potash, the hair is removed from about the horns close to the akin. The potash is moistened slightly and rubbed over the skin which covers the point of the horns, until the skin is white.

It is not necessary to rub the skin until blood comes as this will cause unnecessary soreness. One

unnecessary soreness. One such treatment is usually sufficient to pre-vent the growth of the horns. The following precautions should be taken: The caustic should be wrapped in heavy paper to protect wrapped in heavy paper to protect the hands of the operator. It should not be moistened too much, or else the liquid will run down the side of the call's head and cause unnece-sary pain. The call must be securely fastened so that the head may be held still to sroid applying the caus-tio anywhere except over the horns. One stick of causic potash, if pre-served in a tightly corked bottle, will serve to dehorn many calves.

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Mr. A's Profitless Job

C. F. Whitley, in Charge of Records, Ottawa.

Two patrons of a noted Ontario creamery, both members of a cow testing association, at the end of last year had these records to study. Mr. A. milking eight cows sent a total of only 1,360 pounds of fat. Mr. B. total only five cows sent 1,777 with pounds.

Dounds. Dairymen in other sections are in-vited to consider what this means. A. had three cows more than B. to milk and feed all year, but received a smaller income than B. by quite \$90. Nor is that all. The three ex-tant \$90 once, icl died worth \$90 that he was "out." A worked But one sten further: A worked

that he was "out." But one step further: A. worked hard miking those three extra cows, spending probably 200 hours more than B. on a thankless and profit-less job. The cows were worth something as an investment, but it irrest on it; some allowance should be made for depreciation even of this wonderfully inefficient cow "inlant": be made for depreciation even of this wonderfully inefficient cow "plant"; then stable accommodation had to be provided for them; and the gen-eral care of the herd called for some

Opportunity for Young Man

Are you a farmer's son? Have you a good English culoation? Would you like to receive training in agricolutural journalism? It so write Farm and Dairy. For the next few months at least we will have an opening in our Editorial training for the young man capable of taking advantage of it. One with a couple of years at agricultural college is preferred. Address alt communications to boro, Ont. Are you a farmer's son? Have ou a good English education?

expenditure of thought and skill on th part of A. as general manager of his establishment.

his establishment. The deductions are plain; however comforting a "guess" may be as to whether a cow, or a herd, "pays," there is nothing to take the place of actual dairy records. Further, whatever the production of a herd may be comparisons with other anmay be, comparisons with other an-nual records should be made in order to see if improvement is possible.

Western Dairy HerdCompetition

The Dairy Herd Competition con-ducted by the Western Ontario Dairymen's Association, did not attract as many competitors this year as last. The methods followed by one of the prize winners in the management of their herds are given elsewhere in this issue

THE WINNERS

Chrome factory patrons, 8 to 14 cors. Chrome factory patrons, 8 to 14 cors. beying of the Wessel of the second s ton Factory, 13 cows, 6 5,160 lbs, milk a cow,

5.460 [bes milk a cow. Cheese factory patrons, is cowe or over: First, W. Jinkling, Listowel, Eim Bank Factory, is cows. 108.818 cotal lbs. milk. 6.101 [bes milk a cow. Creamery 2014 arrons, 8 to 14 cows: Pirst, A. W. Van Sickle, Onondage, Brant Creamery, 2013 cores in farm, eight grade Shorthorn cows. 1.721 total lbs. milk fat, 724 lbs. milk fat a cow.

Creamery patrons, 15 cows or over: First, H. P. Patroson, Paris, Brant Creamery, 150 acres, 17 pure bred Holstein cows, 2,390 total lbs. milk fat, 141 lbs. milk fat a cow.

Sweepstakes medals: John Van Slyke Dunboyne, and A. W. Van Sickle, Onon-

Silver trophy: John Van Slyke, Dun-

9

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CEND your next fence order to the nearest PAGE Branch. Buy for cash at the lowest prices ever made on GOOD fence. Get the genuine well-known high-grade PAGE FENCE-the kind that lasts a life-time. You pay no more for this splendid fence than you'd pay for common fencing. Yet the PAGE FENCE will outwear several ordinary fences. A PAGE FENCE, in the long run, saves you several times its present low first cost. And never before has fence of this quality, been sold direct by the makers at these low prices. These prices subject to advance without notice.

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First, Brant grade k fat,

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ible.

Study the prices quoted below for genuine PAGE WIRE FENCE. Compare with them the prices of other fences Remember that PAGE WIRE FENCE is the finest farm fence ever made. That it will outlast several ordinary fences. The more thorough your price comparisons are, the more strongly you realize that PAGE prices are the lowest at which GOOD wire fence has ever been sold. 11

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With every rod of Page Fence goes this guaran-

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No quibble-no strings no red tape-to this iron-clad guarantee. We can give it with absolute confidence, because PAGE Fence is the best fence made. Big carbon-steel wires, woven under uniform tension-with evenly spaced uprights-nonslipping knots-and the best galvanizing money can insure; these make PAGE Fence good for a life-time, while ordinary fences may need replacing every five or ten years.

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| 7 | 48 | 22 | 5, 5½, 7, 7, 7½, 8 | .23 | .25 | .2 | |
| 8 | 42 | 22 | 5, $6\frac{1}{2}$, $7\frac{1}{2}$, 9, 10, 10. 6, 6, 6, 6, 6, 6, 6, 6. | | .25 | .2 | |
| 8 | 42 | 161/2 | 6, 6, 6, 6, 6, 6, 6. | .26 | .28 | .2 | |
| 8 | 47 | 22 | 4, 5, 51/2, 7, 81/2, 9, 9 | .28 | .30 | .3 | |
| 89 | 47 | | 4, 5, 51/2, 7, 81/2, 9, 9 | .29 | . 20 | | |
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| 10 | 48 | 22 | 3, 3, 3, 4, 51/6, 7, 7, 71/6, 8 | .31 | | | |
| 10 | 48 | 161/2 | | .31 | .33 | | |
| 10 | 51 | $16\frac{1}{2}$ | | .33 | | • • | |
| 10 | 51 | 22 | | .33 | .33 | •• | |
| 11 | 55 | 161/2 | 3, 3, 3, 3, 4, 51/2, 7, 81/2, 9, 9 | .36 | .00 | •• | |
| | | | MEDIUM WEIGHT FENCE | | | •• | |
| | | | (Manifilms Touris | - | | | |
| 5 | 36 | | Characterine Province prices of Medium Weight, also Special Poultry Fences, include painting.) No. 9 Top and Bottom, and No. 12 High Carbon Horizontals between; No. 12 Uprights; No. 11 Locks. [8, 8, 10, 10 | | | | |
| 6 | 36 | $16\frac{1}{2}$ | 6, 7, 7, 8, 8 | .18 | .19 | .2 | |
| 67 | 42 42 | 161/2 | | .20 | .21 | .2 | |
| 7 | 42 26 | 16½ 8 | | .22 | .24 | .2 | |
| 8 | 48 | 161/2 | | .23 | .25 | .2 | |
| 9 | 36 | 12 | 3, 3, 3, 4, 5, 6, 6, 6. | .26 | .28 | .3 | |
| 9 | 50 | 161/2 | 3, 4, 5, 6, 7, 8, 9, 9 | .27 | .29 | .3 | |
| 10 | 54 | 161/2 | 3, 3, 4, 5, 6, 7, 8, 9, 9 | .28 | .30 | .3 | |
| 1 | 1 | | SPECIAL POULTRY FENCING | .30 | .32 | .3 | |
| | 1 | - | No. 9 Top and Bottom. Intermediates, No. 12. Uprights 8 inches apart. | | | | |
| 18 | 48 | 8 | Close bars | .42 | .44 | .4 | |
| 20 | 60 | 8 | Close bars | . 47 | . 49 | . 5 | |
| | 48 | | PAGE "RAILROAD" GATES | | | | |
| | 48 | | 10-ft. opening | 3.80 | 4.0 | | |
| 1 | 48 | | 12-ft. opening | 4.00 | 4.2 | | |
| | 48 | | 14-ft. opening | 4.25 | 4.4 | | |
| ST | AP | | 25-lb. box, freight paid | | | - | |
| BR | AC | E W | IRE, 25-lb rolls, freight paid | .75 | .80 | .8 | |
| ST | RE | TCH | NG TOOLS Complete Land | .70 | .75 | .8 | |
| 28 | at all | 1 Orli | NG TOOLS, Complete labor-saving outfit, ft. pd | 8.00 | 8.50 | 9.0 | |

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PAGE CATALOG

FARM AND DAIRY AND RURAL HOME

PUBLISHED EVERY THURSDAY

and Wight

SUBSCRIPTION PRICE, \$1.49 a year. Great Britain, \$120 a year. For all countries, except Ganada and Great Britain, add 506 for postage. ADVERTISING RATES, 10 cente a line flat, \$1.40 an inch an insertion. One page 46 inches, one column 17 inches. Gopy received up to the saturday preceding the following weeks issue.

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CIRCULATION STATEMENT ' The paid subscriptions to Farm and Dairy exceed 16,000. The actual directination of each issue, including apple of the paper sent subscribers who are but about 10,000 explose No subscriptions are accepted at lease than the full subscription rates. Sworn detailed statements of alrealation of the paper, showing He distribution by counties and pro-vinces, will be malked free on revise the counter the subscription for the the subscription has a subscription for the subscription for the Sworn detailed statements of alrealation of the Sworn detailed statements of alrealation of the three subscription for the subscription for the subscription for the Sworn detailed statements of alrealation of the subscription for th

vinces, will be mailed free on request OUR QUARANTIE We quarantee that every advertiser in this issue to allable. We are able to do this pecause the neutro-top of the second vill make good the amount of your loss, provided used transaction occurs within one month from date of this issue, that, and this issue that the second second transaction occurs within one month from date of this issue, that, and this contract that in writing to advertisers you at the second second second second to a second second second second second second determines of the second second second second to second second second second second second the second second second second second second to subscriptor, who are our friends, through the medium of these solumnic but we shall not attempt or use bankrupts. The further Hublishing Commany. Limited

The Rural Publishing Company, Limited PETERBORO, ONT.

Grasp This Opportunity

We hope that Our Folks will take advantage of the opportunity we will give them next week to make their views known on the questions that will be submitted to them in the form of our Referendum. One reason we farmers have not wielded the influence in the community that we might, has been the fact that we have been divided on party lines and because, owing to the difficulties we experience in meeting together and discussing public issues, we find it hard to make our views

The Referendum in Farm and Dairy will give the 17,000 subscribers of Farm and Dairy an opportunity to let the public know what representative farmers think on the subjects under discussion. As soon as the ballots can be counted and the results announced, these results will be communicated to Premier Borden and the members of his Cabinet, and also to Sir Wilfrid Laurier and his chief lieutenants. No political party will dare treat such a verdict lightly if Our Folks respond in the manner that we hope they will. Remember, that the women also are to have a chance to make their views known. We venture to say that most of the women readers of Farm and Dairy are quite as capable of discussing and voting on these subjects intelligently as are the men. It will be interesting to see whether the men or the women cast the more ballots.

It is our intention to hold a Referendum of this character each year. This year, being our first attempt, we do not anticipate the response will be as large as it will be next year. Nevertheless, we hope Our Folks will seize this opportunity and thereby help us to make the views of farmers known. Remember every vote-that means your vote-will have its influence. The ballots will be printed in next week's issue. They will appear only in that issue. These questions you are to vote on appear in this number. Look them over, if you have not already done so, and decide how your votes wil be cast. We anticipate receiving your support.

True Self Government

The successful business in at least nine cases out of ten, is the one that is directly under the management of the proprietor. Whoever heard of a successful business man selecting a manager every four or five years and delegating to him the management of his entire business! Whoever heard of that manager being given such power that his employer could not question his actions, but must submit to every mistake and extravagance? True the proprietor would have the privilege of discharging an incompetent manager at the end of his period; but that would be a small

Of course this hypothesis is absurd. No business man could be persuaded to enter into such an unbusinesslike arrangement. He may delegate the management of various departments to various managers, but he will always reserve to himself the right to decide on important matters. And yet it is under this absurd system that our country is governed. Every few years we elect a party to power and for the next period of years we have absolutely no check on their government, except their fear of not being returned to power. That this fear is not sufficient to ensure economical expenditure, is well proved by the fact that we in Canada are to-day the most heavily taxed people in the world. Our expenditures for federal taxation alone amount to over twenty dollars a head of the population.

Is this growing expenditure unnatural? Have we any more right to expect good management when we delegate all of the powers of government to a few representatives than the business man who delegates his powers to a manager? Would not some system that retains for the people the executive power all of the time be preferable? We have such a system in the Initiative. Referendum and Recall, the subjects of the last question asked in Farm and Dairy's Referendum published on page 10 of this issue.

Initiative, Referendum and Recall

The Referendum is already in operation in many of the cities of Canada. Local option in temperance matters is an application of the Referendum. In most cities important money bylaws have to be submitted to the people for their approval. For instance, the citizens of Toronto will themselves decide ere long through a Referendum, whether or not they will purchase their street railway system.

The Initiative enables citizens to make their own laws, when the legislators hesitate to give them what they want. Where the Initiative is in operation it is provided that when a petition signed by a small percentage of the people, usually five per cent., is presented to a government, requesting that certain legislation be submitted to the vote of the people, the government is forced to comply. Had we the Initiative in Canada, for instance, the farmers, who are in large measure opposed to increased military expenditure, could by presenting their petition force the government to submit the question of military expenditures directly to the people in the form of a Referendum, and if the people so decided neither of the policies advocated by the political parties could be persisted in, and expenditures would stay where they are. In short, these two measures, the Initiative and Referendum, give the people true self-government. They enable citizens to keep that check on their representatives that every good business man would keep on his manager.

To refer again to the analogy of the business man and his manager; the proprietor always reserves the privilege of discharging his manager when he fails to carry out his demands. The Recall would give the people the same privilege with their representatives in Parliament. A peti4

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tion sufficiently signed would make it necessary for any member who had displeased his constituents to come back to his constituency and stand for re-election.

All three of these measures, the Initiative, the Referendum and the Recall, are already in operation in Switzerland, to a limited extent in other countries, and in many cities all over the world. In all cases they are meeting with the approval of the people. Would you like to have a similar check on your representatives in the municipal, provincial and federal governments in Canada? Our Folks will have an opportunity to express their opinion in the ballots that will be published next week in connection with Farm and Dairy's Referendum. We trust that many of Our Folks will take advantage of this, your first opportunity, of expressing your opinions on the great public questions of the day.

To Prevent Abuses

The confidence of the people is the only sure and sound basis on which any great business can be established and long endure. This is as true in the pure bred live stock trade as in any other branch of industry. For the most part Canadian breeders of live stock have lived up to both the letter and the spirit of the command, "Be just to all men." Hence they have established the confidence of the public; not otherwise could the pure bred industry in Canada have attained the dimensions that it has,

It is regretable, but true, that abuses have begun to creep into the pure bred business. Breeders of dairy cattle perhaps have less to answer for than breeders of any other line of live stock. Even here, however, such evils as by-bidding at sales, the exhibiting of cattle at fairs that are not really owned by the exhibitors, and the selling of cattle that are known to be diseased, have become more or less prevalent, but hardly as yet to an extent to impair public confidence.

Now is the time for the breed associations to see that such practices are not persisted in. The members of the Holstein-Friesian Association will have an opportunity to show their disapproval of such practices when at the next annual meeting Mr. J. E. K. Herrick will propose to amend Article II of the constitution of the Holstein-Friesian Association of Canada, by adding a new section to tead as follows:

"To prevent by-bidding at public sales; to "punish the sellers of diseased cattle; to pro-"hibit the fraudulent entry at fairs, or the ex-"exhibition of cattle not properly transferred. "Any breeder found guilty of the violation of "the letter and spirit of this section shall for-"feit his privileges and membership."

Mr. Herrick's amendment is in accord with the spirit of honesty and fair play. It is also in accord with the best business precepts. Sooner or later such amendments to the constitutions of all the breed associations will be necessary if public confidence is to be retained. If eventually, why not now?

Rule of the thumb farming is drudgery. A farm run on up-to-date principles by a man who understands both the theory and practice of his profession and who has the proper How About conception of the dignity and the

How About Maryy is one reason why boys go to agricultural college. True, it may enable them to earn more in dol-lars and cents, but a college course also enables them to get more out of Hie. Hence we plan to ground the drudgery, unless like farming it is accompanied by knowledge. It is the function of such collegers as Macdonald Hall at Guebb is accompanied by knowledge. It is the function of such colleges as Macdonald Hall at Guelph and the Ladies' Department of Macdonald Col-lege at Ste. Anne de Bellevue to impart the knowledge that drives the monotony from wo-man's work, even as knowledge makes the work of man a pleasure. Is John going to college? Then send Marx, too.

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Good cattle is the safe and sure ing, according to Henry Glen, dinning, Manilla, Opt., who was one of the first speaker's of the Eastern Ontario Dairy Convention. "Let the dairy farmer confine himself to one of the well recognized dairy breeds," said he. "I do not mean by this that the study of the made a selection of the breed use a selection of this simple rule. Mr. Glendinning said, had made many a farmer pros-van farmed to the selection of this simple rule. Mr. Glendinning said, had made many a farmer pros-said he. "I do not mean by this that the selection of the selectio said, had made many a farmer pros-perous. When the right stock is se-cured Mr. Glendinning advised perous. Whe against weakening constitution by

January 22, 1914

AD. TALK COXXV

A story is told that in a city of ancient days the people wondered if the man in the moon were real. They wondered how they should find out, but one after one the plans suggest-d to ascertain this were dropped as Infeasible. At last one suggested that at a certain time the whole city should raise a great shout and the sound would attract the attention of the man in the moon.

the man in the moon. And so the time was set. But one by one each citizen (like so many of us to-day) sold to himself: "Well, my small voice won't add much at-ter all, it won't matter if I don't shout." And when on the day, in the hour and at the proper minute, a -noise? No, so great a silence came over the city that the old man in the moon smiled the smile he wears to-day. to-day.

to-day. Isn't the incident typical of pre-sent human nature? Aren't we much the same incidined, especially we people on the farms, just to leave it all to the other fellow. And to a preset extent we loss the value contain combined energies. What we contain It all to the other fellow. And to a spread extent we lose the value of our combined energies. What sweeping measures we could effect? What vial changes in our laws if only we that changes in our laws if only we that the second second second second that the second second second second have lived down the belief character annot, by acting in union, accom-plish great and needed reforms. They have proved it to us. From its very inception the movement of the Grain Growers was branded by many as a complete failure, simply because it was conceived in the because it was conceived in the second second second second second they have the value of the second second they have the value of the second second they hold in their mighty grip the power which for years had been grainwing at the vitals of their agris cultural life. Yes, our Western brother farmers to the shown us the wy. We need their far have the shown to the shown to the shown us the second second second the second second second second second second the second second second second second the second second second second second second the second second second second second second second second the second second

This "Can and I Will" spirit that and serving the less acceptable feeds stamps them as different: They are at night; this in pursuance of the spushers! They have made them filling up plan. Salves heard no uncertain voice— Flavor, also conducive to milk pro-they have spoken as 'one'. It's up to duction, may be had by buving the

us. Individually, it's the same. It's the man with this aggressiveness— the follow that is pushing—that is leading the way. The man who is getting most out of his year's work in the fields—the biggest returns from what he sells—is the man who lets many neople as nossible have a at many people as possible have a chance to buy his goods. Here and there, all over Ontario you can pick out these men. You know some right in your own district. He gets higher prices than his neighbours. He raises choice stuff and then "let's people know about it." In other words-he envertises.

Did you read in January 8th issue the note of Mr. Forster, of Markham, in regard to advertising seed grain? Look it up in—Farm and Dairy. 11.4

Paper Farmers Swear By"

FARM AND DAIRY

INFORMATION GLEANED AT THE E.O.D.A. CONVENTION

OOD cattle is the safe and sure too early breeding. He set 30 months

best combination for the economical production of milk. As was quite fitting, C. F Whitley, cow testing enthusiast, came after Mr. Glendinning and told how the treatment work respond to even such advocated could former speaker had advocated could for the protect and best cow was 5,000 pounds of milk. This was exceptional, but differences of 4,000 to 6,000 pounds are common. Above even the finan-cial returns of cow testing Mr. Whit-ley what the renewed interest and spixes the francoccupation that testing addresses will be given more fully in addresses will be given more fully in future issues. MR. GRISDALE SPEAKS

"Common sense in cow feeding is the growing of the crops best adapted the growing of the grops best adapted to our farms and feeding them to our cows in such a way sto get the greatest possible a most pression and dale, always a popular speak at dairy conventions. To secure this de-sirable result he first advised that the cow be fed till she is brim full of food that is of high nuttive value and palatable and then keep her that way. Nutrivie value, usually placed and palatable and then keep her that way. Nutritive value, usually placed first as an attribute of a feed, Mr. Grisdale placed second to palatability. A cow will fill up only on what she likes.

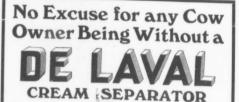
likes. Succulence is the first requirement of a palatable ration. Mr. Grindale placed corn first on the list of suc-culent feeds. Roots are equally but are mere expensive to grow and the crop is not so certain. Corn is a surge crop every year. Mr. Grisdale himself has not had a corn crop failure in 35 years. Where both of these feeds are lacking succulence may be obtained rears. Where both of these feeds are lacking successful and any be obtained by cutting straw and y and damp-ing with water and 20 y and damp-feed molasses. This molascat of feed molasses. This molascat of valuable food that has been too long neglected; it has a food value equal to its cost quite apart from its value for succulence. The speaker advise ed against feeding of pure ensilage; "better mix with a little cut hay," said he. "It makes it more palat-able."

able." Variety in the ration, Mr. Grisdale said, can be obtained best by giving a mixture of feeds each day rather than changing the ration from day to day. He advised feeding the most palatable and nutritious foods in the morning when the cow is hungriest and serving the lass according feeder

at night; this in pursuance or the filling up plan. Flavor, also conducive to milk pro-duction, may be had by buying the best grain feeds and harvesting the forages carefully. "Cut your clo-ver," said Mr. Grisdale, "before you can see one dead blossom. Cut the timothy when it is in blosm." If all these points were observed the these points were observed the speaker was confident that we would soon find it unnecessary to go to other lands for improved stock.

WEDNESDAY EVENING

The evening meetings at Cornwall The evening meetings at Conwall were perhaps the most successful in the history of the E. O. D. A. con-ventions. In addition to a high standard of addresses, the proceed-ings were brightened by splendid musical entertainment provided by the citizens showed their interest by turning out in such strength as to fill the large Town Hall, gallery and all. *(Concluded on page 57)* (Concluded on page \$7)



THERE is no reason why any cow owner who sells cream or makes butter should be without a separator and there can be no excuse for his not having the BEST separator. A NY creameryman or experienced dairyman will tell you that

a good cream separator will give you a great deal more and a great deal better cream or butter than you

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can produce with any gravity setting system. THE DE LAVAL is acknowledged by reamerymen and the best posted dairy-men the world over to be the "WORLD'S STANDARD" and the one and only separator that always accomplishes the best results possible and always gives satisfaction.

YOU Cannot make the excuse that you can't afford to buy a De Laval, because it not only will save its cost over any gravity setting in six months and any other separator in a year but is sold either for cash

or on such liberal terms that it will actually pay for itself.

WHY not start 1914 right in dairying? SEE and TRY a DE LAVAL NOW when you have plenty of time to in-vestigate thoroughly. The nearest DE LAVAL agent will be glad to set up a machine for you and give you a free trial.

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210 POPE STREET, WELLAND, ONT.

WAR

peratively

played upon her hair; how broad her

down and stepped impulsively

Dan. She gripped a white hand upon each of his arms, just above the

elbow, and looked up at him im-

"It wasn't Mr. Williams, Dan', you can't deceive me — I know it wasn't. It was you, Dan Black, who saved papa. And how could you do it!" Dan had lifted a hand to each elbow

belonging to the arms that pinioned his, and stood looking tenderly down

into the steadfast eyes that were lift-

ed to him. He spoke slowly. "I remembered a little girl stand

ing under a chestnut-oak offering all

the money she had to a seedy, heart-

the money she had to a seedy, heart-sore boy who was starting out alone to test the world." Margaret's face quivered. Her eyes brimmed, and she looked very

like the little girl who had stood un

"It wasn't Mr. Williams, Dan; you

Margaret walked steadily to within

yards of where Dan was stand-

up to



FIN EFFORT made for the happiness of others lifts us above ourselves .- L. M. Child. ...

The Washerwoman's Son

By DEBORAH DREW Copyright. The Frank A. Munsey Co. (Continued from last week)

Borken. There were rumors afloat of the wild doings of Albert, his and lately the rumors had son : bandied about in whispers of a hushedpaneled about in whispers of a based up forgery that would send the father to the wall. And the chief uncer-tainty was of Albert's whereabouts.

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(16)

Fifteen years!--and to-day Mr. Haines was entering the Avery Bank. The tail man in the president's office saw him through the glass par-

tition, noted the heaviness about him the haggard face; and there flashed before him a succession of instantan-cous pictures of other days—the do-nouncement of himself as the "wash-erwoman's son," the refusal of credit by Mr. Haines, the little girl under the cak these with her scoffered as the oak tree, with her proffered assistance

Mr. Haines was ushered in, and Dan gave him a chair. The older man leaned wearily upon

The older man leaned wearly upon the president's desk. "Mr. Black, I am going to the wall; no need to tell you why; you know why. Unless I can borrow wall; no need to ten you any, you know why. Unless I can borrow money I am ruined. "How much money?" he asked. "Twenty thousand dollars would

save me, and my investment are such save me, and my investment are such that in a year's time I know I could pay it back. It is only for the present moment that I must have money, it.' or-go down and out!'

curious expression came into A Dan's face.

'Mr. Haines, do you remember my coming to you fifteen years ago and asking you to trust me for a straw hat see me every week. She found 'n' the day when y'ur letter come, 'n' the day missed oncet comin' to

There was a sodden weariness upon the older man. Dan arose and went to the window.

Mr. r. Haines spoke: "Yes, I remember it; and I don't

blame you for remembering it now." Dan turned from the window. "I am afraid I cannot oblige you."

the day when y'ur letter she never missed oncet comin' to read it with me. She neter be all out o' breath from hurryin' down that long hill; but sense ye be'n rich 'n' home to live. Marget never He was repeating, with singular ac-curacy, the words that had sent such bitternees into his soul fifteen years before.

The other man arose, saying only: "I cannot blame you."

Dan watched him go, with his heavy, old tread, out through the front door.

The side gate clicked, and Mar-garet Haines was coming, barehead-

Then, with rapid strides, he went to the cashier's desk. "Look aere, Williams, catch up with Haines immediately. Tell him you'll Joan him twenty thousand dol-Jou if four film twenty thousand dol-lars at once. And not on any ac-count do you let him know that that money comes from me! This is your loan, d'ye hear?"

Williams suppressed a smile as he picked up his hat.

It was easy to understand why animals had loved this man and obeyed him

retrospective contemplation of Mar-garet. How exquisitely youthful she had kept; how the lights and shadows The early evening of the same day

UT Mr. Haines had begun to look found Dan in the rose-garden with broken. There were rumors afloat his mother. He was sitting upon a his mother. He was sitting upon a bench under a tree, watching her as she snipped and cut among her roses. hts and shadows intermingled in that garden. Lights out

His mother suddenly stopped work, and went over and sat down by Dan. and went over and sat down oy Dan, with her rose-shears in her hands. They were no longer parboiled hands; but they were knotted and large, and full of the signs of labor. "Danny, Marget's a fine girl."

"But she's proud."

No answer. "N' you're proud. You're too proud; 'n' now I'm goin' to tell ye somethin'. All through the years

when you wuz trampin' the country, sleepin' Lord knows where, 'n' send in' me y'ur money, Marget come to

home to live, Marget never near, She made me promise

comes near. She made me promise not to tell ye that she ever visited me, 'n' I've kep' my promise till now, 'n' now I've broke it."

bench and pondered. His mother went back to her ros

out waste of words

Dan leaned an arm on the back of

She had a way of stating facts with-

ed under her parasol, around the side

There was something about the

fluffiness of her gown that carried him back strangely to the things on

mother's ironing-board,

which he had seen her bend so many years. He wondered vaguely who ironed those things now.

He almost forgot a salutation in his

over

Dan had risen at sight of her.

the country.

No answer.

comes near

of the house

the

The Greatest Work of Mother and home

El GOOD character is a precious thing above rubies, crowns or kingdoms. The work of making it the noblest labo. on earth. Home influence may be estimated as the immense force in character building. Our labits are formed under the moulding power of home; the spirit is shaped, principles are implanted and the whole character is formed until it becomes a habit. Goodness or evil are there resolved into occessivy. The greatest statesmen and warriors, the most cloquent ministers and greatest benefactors of human kind, owe their greatness to building the statest of home. influence of home.

Science has tried to teach us that if a pebble be cast into the sea, on any shore, its effects are felt over the whole occan. If this be true it furnishes an example of the effects produced by a mother's power, effects which stretch into Eternity. In me effects produced by a momer s power, effects which affects much a stretch mode Effertivy. In my that, Christian country can we deny the, influence which the a mother exerts over the whole life of her children? So intense is her power that the mere remembrance of a praying mother's hand laid on the head in infancy, has held back a son from nnette Creaver, Huron Co., Ont guilt.-/e

Secondereceseconderecesecondereces "Yes, mother; I have long known der the oak-tree fifteen years ago

Margaret's And then down came head, with a sob, on one of the spans made by the interlaced arms Moll D. scudded around the house

to the front veranda with the awnings and the wicker chairs. THE END.

. . .

Makes Home Happy

"A man may work from sun to sun But woman's work is never done."

This little proverb may have been ue when it was written. Probably This little proverb may have been true when it was written. Probably the writer believed that the woman had little cause to complain because of her long hours. We have a differ-ent idea nowadays. We are finding that the merry voice and happy smile of the girl we mark manifer if the of the girl we marry remains—if she doesn't have to work too hard. Con-sequently a few farmers here and there have been working some method of reducing household work. A writer in the Indiana Farmer tells us how he has succeeded shifting the burden from his wife's shoulders on to an un feeling, untiring gasoline engine, and incidentally saves himself a lot of work as well. He describes his plan as follows :

as follows: "We have a gasoline engine in our summer kitchen, or milk house. This room is 14 feet by 16 feet, giving us ample room for all the necessary ma-chines to be used on a farm. I have a the brown of the second form a one-inch a termined are nine this is heavy ana to toot shart made toon a one-mon galvanized gas pipe, this is heavy en-ough for the work I have for my en-gine. This shaft runs across the building with enough on each end outside the building to have a pulley. lanuary 22, 1014

"On one of these pulleys I have a belt that goes to the pump and by the aid of a home-made jack I pump all the water needed on a 500 acre farm with a good deal of stock. This water is pumper into the house into a water is pumple, into the noise more as storage tank and the overflow goes to the stock tank. In this way we have fresh water in the house most of the time, making it very conven-ient for my wife.

"On the other outside pulley I run the grindstone which is quite a saving of strength and time besides keeping my tools in better condition.

have it fixed to run a small grinder. "On the inside I have three pulleys One is for the cream separator, which is a piece of machinery every farmer ought to have, but it takes a good deal of time to crank it and if you have much milk it takes an extra man to remove the separated mill pour in more to be separated. milk But if you have an engine you can start it you have an engine you can start it going, sit down and rest while it does the work, or if you feed part of the separated milk to calves you can go and feed them while it is separating the balance.

SELF OPERATING CHURN

"Another pulley runs the churn. Churning is considered the work of the women folks on most farms. But the women losss on most larms. But at our house we get the churn ready while separating, and let the engine do the churning. My wife goes about her general housework keeping watch on the butter, as experience has taught her about how long it takes to churn, so she does not have to stay with it.

'The third pulley runs the washing machine and wringer, thus taking away the drudgery of the wash day taking Instead of coming in at noon and find-ing my wife tired and bent over and holding her back as though it was about to break, she greets me with a smile, and informs us dinner is ready If you should ask the reason of the smile, or how she got dinner ready of time on wash day, she would say the gasoline engine did it. I don't see how we got along without it.

SPEEDY SEED CLEANING

"This is not all we use our engine for. When we want to clean our seed outs we move the engine to the granary and attach it to the fanning mill. It is no trouble to clean 400 bushels a day with two men, one to put the grain in the hopper and the other to take it away.

The engine will take care of itself We have had our engine five years at a very little expense. It takes about 1% gallons of gasoline a week to do the amount of work we have to do and we run it some every day. assure you, if it cost four times a much to run one as it does, I would have one, for it saves my wife hiring a girl, or me keeping an extra man so that I can go out and do my part in the field instead of churning, run ning the washing machine, pumping the water and carrying it in, to relieve my wife of some of her hard work.

GREATEST GOOD OF ALL

"With the help of a gasoline engine she can manage her household affain keep in good spirits, keep the law and flowers sprinkled so they loo beautiful, and make home happy.

Some homes are bright as a spirit A rich place in this world to dwell

But home is just what we make it We can make it a heaven or hell. "But we need not expect to has our home a paradise if our wives have to work hard all the time."

. . .

I have used a vacuum cleaner nearly a year and it has given sple did satisfaction in cleaning carpet rugs, mattresses, upholstered fun ture, etc. I consider it a great he in housekeping.—Mrs. J. M. Percin Leeds Co., Ont.

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ALL soline engi ehold affain o they loo e happy as a spirit rld to dwell we make it en or hell pect to have have a construction of the second seco

n cleaner given sple ning carpe stered a great he M. Perciv

January 22, 1914

Our Ideal

User taught whow sad, hopeless and aimless averas a life without the great motive power of an ideal; one of the most discouraging, but at the same time most encouraging forces in our lives! To have an ideal is discouraging because no matter how long or how the same the same time of the same time because no matter how long or how hard we may strive we can never really attain it.

really attain it. They had grown old together, just The encouraging part is that by constant prayer, earnest thought and persistent endeavor, we will always asked, as he stood washing his hands determine to be. Have you ever no-ticed how much elderly couples often tied with we may have to alke, though in the far away been totaily unlike? An ideal is such a power in our An ideal is such a power in our time that it will lead us to accom-plish what forten seems impossible. There was a faint flush of a young-er color in the oid woman's face-lor Many lives of the longago famous, wives live and years only increase the in-terest.

heroes of every-day life give us many terest.

heroes of every-day life give us many terest. For years he and she had kept a an illustration. Of course this ideal, this vision, offen varies as the years go by What a change in the boy of five, who declared he was going to hunt lions and could come on to the hospital, and injers through the week and be a missionary on Sunday to the earn-ath oild store. In the first of the store in the 'wist' line for the benefit of his fallow-men. "Just as every minute part of ma-with a tray fastened to his shoulders."

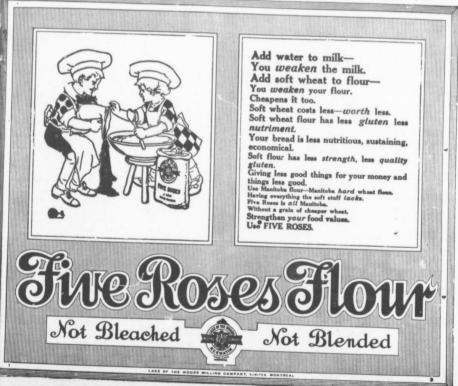
The Upward Look sing as well equipped as we possible like manner we can never overlook any minor points in our life-educa-tion, but must constantly aim at be-ing as well equipped as we possibly can to be ready for the realization of our dreams. No ideal can be a vision beautiful

into ideal can be a vision beautiful unless it includes in it that thought of helping others to lead a life-beautiful.—I. H. N.

... Grown Old Together By Thomas Drier

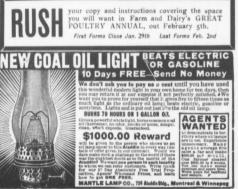
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Maggots on House Plant With my home plants have had routhin with my home plants have had routhin with my home plants have had routhin worms, about the size old and will the adult particulation of the most of the size of the worms, about the size old is an black. The maggots develop into them. Have notice small have black and black with the size old is the black. The maggots develop into them. Have notice small brought earlier things but with out effect. Have load the black with the size old is the black. The maggots develop into them. Have notice small brought earlier things but with effect. Have load the black with the size old is the black with the size old is the black. The maggots develop into them. Have a size of the black is the black with the black as even as about the method are set of an induced by a sour, hadly drained with, and originate of the from the black are want many used in potting ont, and originate of the from the black are many manner. The plants had best be ro potted is once, removing as much of the old soil as possible without injur-tion and brought existing the soil of pot plants. The size the plants had best be ro point, inderes the branks and best be point. Interes the branks and best be point, interes the branks and best be point. Interes the branks, and best be point, interes the branks and best be point, interes the branks and best be point, interes the branks, and best point, interes the b





FOR SALE-2 Sons of King Fayne Segis Clothilde, from R.O.P. cows. Also three Clyde Fillies and 3 Stallions. Yearlings. --R. M. Holtby, Manchester, Ont.



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mains today the standard tr a years of success back of be a cure and guaranteed o't experiment with substitu

Toronto, Ont

83 Church Street,

DRILLING

MACHINES

Approval of An Interested Reader By

"Aunt Fanny," Ont. Peterboro Co.,

I have been much interested in following the Referendum idea which

A more seen much interested in fol-lowing the Referendum idea which of Farm and Dairy, and in reading the editorials in explanation of the various questions contained therein. While it will be interesting to note the expressions of opinion from our men-folk when the results are pub-lished, I am really curious to learn how my aister aubscribers are going to mark their ballots. We who are in favor of granting women the-tain favor of granting women the-tain favor of granting women the-tain ty to voice our settiments, as will also these who do not look upon this question with favor. Then too we will have a chance to air our views on several other vital and pro-gressive measures. I hope my sisters I hope my sisters gressive measures. will treat this matter seriously so that when the ballots are published in next week's issue of Farm and Dairy, we will all be prepared to cast our vote.

1 certainly congratulate Farm and Dairy in allowing its women readers to express their opinions on these important issues, and trust that the results will be all that they desire. . . .

An Enclosed Porch for Winter Confort

N almost every house nowadays O here is a screened porch. The joy and comfort to be derived from this cool, bug proof addition to the house is so great that, whenever it is within the means of a house holder, it is now a part of the home. house

holder, it is now a part of the home. Everyone knows what a difference is made in the family life by the screened porch, but comparatively fow of us have become equally conscious of the pleasure to be gotten by en-closing the screened porch in glass for based of the screened porch in glass for the winter.

First, there arises the thought of cost. It is an expensive luxury but well worth the amount put into it. well worth the amount put into it. As to heating the enclosed porch, the best way is to use the same heat used all over the house. If you have a hot air furnace, an extra pipe can be run through the porch floor. If steam or hot water is used, a radiator can be hot water is used, a radiator during is placed on the porch. The piping is not expensive and the same boiler that is in use, can stand the addition of one heater. The piping is

A CHARMING HEATER The most charming way to heat an enclosed porch is with an open fire. If a chimney runs up in the wall against which the porch is paced, it is not very difficult or very «spensive to cut into it and have a orick or stone mantle built over the fire place. The most expensive part of this way of heating an enclosed port is the main-tenance of the fire. In most places wood is far from cheap, and the fire sed porch is the mainrequires constant attention to keep it going. If none of these methods of heating can be managed, an ordinary coal oil stove is almost as effective very cheap and

and very cases. The chairs and table on an enclosed porch should be covered with bright, cheerful cretonne. There should be a good reading lamp on the table in case the porch is used for an evening sitting room

A swinging canvas couch with some comfortable, soft sofa cushions in it and a warm, bright blanket at one end is a great addition.

FLOWERS AN IMPORTANT FEATURE

There should always be flowers grow ing on an enclosed porch. It should have a little of the appearance of a conservatory where people as well as flowers are allowed to flowish in warmth and sunshine even when it is

January 22, 1914

bitterly cold outside. Ivy grows we on such a porch. It will climb up on such a porch. It will climb up the posts and can be trained to meet between so that it gives the effect of arches. Geraniums are good growers on an enclosed porch. They are hardy and willing and can stand an extraordinary amount of cold.

A bird seems naturally to be part of an enclosed porch, a canary or a parrot, and there is on the market now the loveliest bird cage made of wicker with a little pointed roof. This

Are You Ready To Vote?

Are You Ready To Vote? Have you noticed that "Our Women Folk: are beind siven an ondum? Since the government has not as yet given wo ear the fran-thies, Farm and Dairy is taking a readers the privilege next week of ratters, husbands and brothers. Our Women Folk are capable of interlight as the men we would like you to prove that our com-tentions in the state of the sec-rem all our prove that our com-tentions are right by again are looking for a hearty response remoking for a hearty response the sign to one of our many interested readers. Remember, an pecial bailot for women will be special bailot for women will be that and the fatter from the sign one of our many interested readers. Remember, and he is just one of our many interested readers. Remember, and that and the fatter from the sign one of our many interested readers. Remember, and he is just one of our many interested readers. Remember, and he is just one of our many interested readers. Remember, and the sign of t Dairy

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Samereren cage would be very desirable if you wicker furniture.

Whatever is cheery, whatever bright, whatever is homelike, below on an enclosed porch.

. . .

Head-Cheese

Cut a hog's head into fcur piece Remove the brain, ears, skin, snou and eyes, cut off the fattest parts for lard. Put the lean and bony parts to soak overnight in cold water in orde soak overnight in coid water in orde to extract the blood and dirt. Whe the head is cleansed put it ever th fire to boil, using water enough : cover it. Boil until the meat separate readily from the bone. Then remove it from the fire and pick out all of th

Drain off the liquor, saving a par it for future use. Chop the max of it for future use. up finely with a chopping knife. R turn it to the kettle and pour a enough of the liquor to cover the mai Let it boil slowly for 15 minutes to half hour. Senson to taste with a and pepper just before removing from the fire. Turn it into a sha low pan or dish. Cover with a pie of cheese cloth and put on a boar with a weight to make it solid. Whe cold it should be sliced thinly an served without further cocking.

... Vegetable Table.--- A veg

table can be made like an ordina kitchen table with two bins. I be put together in about three h out of material found at home. out of material found at nome outside appearance make it like it kitchen table having bins for fit and sugar, the sides of wood and p forated to allow a free passage of a The bottom is to be made of the painted. One bin is for potatoes a the other for roots and vegetable They will hold a week's supply for They will hold a week's supply for ordinary family. A small boy of fill the bins as a Saturday chore, i thus the daily trip to the cellar avoided. It is a very successful a avoided. It is a very successful a cheap labor saving device.-U: Agricultural College.

Always add a small piece of but to milk puddings when cooking the as this not only improves the tak but prevents the pudding from b ing over.

tow tub a w the hou duti TI for not pres enou there chee: migh Cana oppo have must the d sectio men patro

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To Vote?

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A veget an ordin an ordi bins. I t three h at home. t like ns for fi ssage of ade of potatoes l vegetab supply for boy he cellar iccessful a levice.—U

ece of bu ooking th es the taining from b January 22, 1014

WHEN WE SAY GOOD-BYE TO WASH DAY

What One Community Is Doing and What Many Others Could Do to Relieve Farm Women of the Weekly Washing. Some Suggestions that are Practicable for the Smallest District,

G OOD-BYE to wash day! With what joy would the average far-ment with welcome the oppor-tunity of hidding the wash tub adjeu! She would be that she was saying wood-bye to feel that she was saying to the very diagonaly backache and joy the set of the set of the set of the workaday week'the hardest. The husbands, too Jokes about she wash day dirigs have become the year willies of the road would ra-tackle ahe overworked housewife for a free dinner. They tel you that

a free dinner. They tell you that even the most amiable women are apt to be "short in the grain" when bending over a hot steaming wash tub

tub. One need not be a dreamer or a prophet to predict that the day is not far distant when the farmer's wife will say good-bye to wash day. Several hundred women have already done so. Chatsworth, Grey Co., One has rated out to make a name done so. Chatsworth, Grey Co. Ont., has started out to make a name Ont., has started out to have the for itself as a cooperative centre. It

Ont, has started out to make a name for itself as a cooperative centre. It for itself as a cooperative centre. It fore it way to go, however, be-fore it will be a cooperative to the start a cooperative bank, a cooperative have a cooperative bank, a cooperative the start of a cooperative store a coopera-vator a cooperative store a coopera-built out of funds provided cooper-built out of funds provided cooper-tive store store and a cites operation for some times an acites operation for some times an acites operation in connection with the cooperative creamery. Washing is done practi-cally at cost for the members, and so reasonable are the charges that the poorest farmer's wife could hardly afford to do her own washing when the cost of the store and so forth is taken into consideration with a moderate value put on the time of forth is taken into consideration with a moderate value put on the time of the women

The women, Those Chatfield cooperators make another claim for their cooperative laundry, aside from the mere dollars and cents value. They tell us that their wives have plenty of work to do without the family washing. The town wives said good-bye to the wash tub long ago. Every town now has a well patronized laundry. And if the town housewife needed relief from the washing, how about the country housewile with her multitudienous duties? Chatfield farmers have given their answer.

CAN WE DO IT IN CANADA P CAN WE DO IT IN CANADA? The method applied at Chatfield for saying good-bye to wash day is not capable of wide application at the present time. Farmers are not well enough organized. Where, however, there is a conservative creamery or present tune, realized, where, however, enough organized. Where, however, there is a cooperative creamery or might very well, the shareholders might very well, the shareholders opportunities for the successfully op-erating of such a laundry as they have at Chatfield. Steam and power must be generated anyway to make the cheese or butter, and in every section there are scores of farm wo-men who would be only too glad to patronize the laundry were charges reasonable. Laundries might even be installed in connection with prireasonable. Laundries might even be installed in connection with pri-vately owned cheese factories and creameries to the benefit of both proprietor and neighboring housewives.

Ides District.
Such an extensive investment as has been made at Chatfield is not has been made at Chatfield is not has been made at Chatfield is not has present the state of Karasary. Down in the state of Karasary and the state of the state o

Total cost laundry :

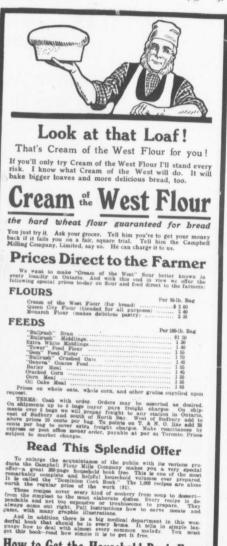
Total cost 8456 00 It will be noted that these prices do It will be noted that these prices do not include a building. A very mod-est building would meet all require-ments, and as for the land on which to build it—well, if all the women in the communication of the second second second second the communication of the second second second second second the second s the community wers interested in the laundry and they felt that it was go-ing to be of benefit to all of them,

ing to be of benefit to all of them, they could surely persuade some of the landowners to allow them the small space necessary, rent free. What, wever, there is a cooper-ative creamery. Miss Brown advises the building of a laundry in connec-tion therewith. The equipment of a laundry such as that at Chatfield would cost \$1,960. Here is the outfit: "We & 4 dN a word washing with would cost \$1,960. Here is the outfit: The Me \$4 NO. 3 wood washers with 0 ne 35 x 50 No. 3 m cost 0 ne 35 x 50 No. 3 m cost 0 ne 35 x 50 No. 3 m cost 0 ne 35 x 50 No. 3 m cost 0 ne 35 x 50 No. 3 m cost with angle conterphant. 18 00 0 ne 18 cost 20 No. 3 N

Total oost

on the investment.

on the investment. This cooperative laundry idea is a good one. It is gaining ground rapidly nowadays, and plans are under way for trying it out in numerous parts of the United States. Who will have the honor of giving the cooperative laundry its first trial in Canada? He or she who does will be followed by the blessings of every farm woman who now does her own farm woman who now does her own washing.



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| Mrs. John Beatty, Nogies Creek, Ont. | 21 Mrs. S. R. Copland, Harriston, Ont. |
| 4. Mrs. Robert McDougal, Hexham, N. B. | 22. Miss Ada M. Towle Milner, Ont. 23. Mrs. C. E. Patterson, Black- |
| 5. Miss Ethel Procter, Box 108. | heath. Ont. |
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| wich. | 28. John Marshall, Simcoe, Ont. |
| 10. Mr. W. O. Gardner, Kemptville, | 29. Alfred Morrow, Russell, Ont. |
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| Sardis. B. C. | 58 Mrs. Samuel Talbot, R. R. 5, St. |
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| FARM AND DAIRY, | |
| I THINK THIND DRIKI, | PLILRDORO, UNI. |

HOW SWEEPING DAY IS MADE EASY BY SOME OF "OUR FOLKS"

The Broom has Given Place to the Vacuum Cleaner in Many Homes of "Farm and Dairy" Readers. A Few Experiences as Told By Satisfied Users.

CAN recommend the vacuum clean-I CAN recommend the vacuum clean-er as a thorough and sanitary way of cleaning house furnishings, particularly rugs and carpets with a thick pile, upholsterd furniture, and mattresses. I like my cleaner be-cause it is so dustless when in use. It sucks up fine dust in a manner superior to any other method. Though rather tedious, the hand-power clean-trather tedious, the hand-power cleanrather tedious, the hand-power clean-ers silently and thoroughly do their work and make the next best substi-tute to the power cleaner.

The vacuum cleaners that are run by electricity or some other power of that kind are of course very much better. And the day is coming when every farmer's wife will have a gasoline engine or Hydro-Electric power to which she may attach her vacuum cleaner .-- Irene Guest, Middlesex Co., Ont.

Institute Buys a Cleaner

Mrs. W. J. Johnston, Stormont Co., Ont.

In the year 1912 a Women's Institute was organized, having a mem-bership of 120. It was not long until the members decided to hold a lawn social, the proceeds to be used in purchasing a vacuum cleaner. The social was a success, and the cleaner a realization of our hopes, for it proved a thorough success.

One afternoon the Institute met at One atternoon the institute met at Mrs, G.'s to test the merits of the machine, which we had on trial. Two ladies who had considerable mechanical ability undertook to put the ma-chine together. It was soon in work-ing order and the trial began. Some fell in love with it at once. Others declared they would never use it, but would take up their carpets as they were in the habit of doing.

One way we tested it was by sprink-One way we tested it was by sprink-ling flour on the floor, placing a piece of carpet over it, and applying the machine. The flour was instantly taken up. The majority decided to keep the machine, and within a few months, I think every member used it. Each would now like to have one of their own, as they could use it oftener, which would be more satis-

On receiving the cleaner the second time, I found it wouldn't work. I began to examine it, thinking surely it was not worn out already. Something was wrong; there was no suc-tion. I soon found that the nozzle was completely filled with lint and dust, but with the removal of this obstruction the machine was again in working order. It means hard work to operate it. But it is also hard work taking up carpets.

Cleaner a Good Investment Mrs. W. Brown, Haldimand Co., Ont.

I have had my vacuum cleaner for two years. I think it was a good intwo years. I tinnk it was a good in-vestment, and would not like to have to do without it. It takes me about 30 minutes to clean a room that is in use every day, with the cleaner I have. Of course, one can do the bedrooms more quickly as there is not so much dust trache outed to be not so much dust to take out of the carpet. When a carpet is cleaned with the vacuum cleaner it looks much nicer than if I had taken it up and given it a good beating. As a matter of fact, no woman can take up a 25 yard carpet and clean it without assistance. And my experience with help from the men has been that they are tired out before the carpet is half cleaned

Another good feature about the the heavy labor of en vacuum cleaner is that it takes up besides protecting the the moths around the edge of the exposure to winter cold. carpet.

pumping seems to be under the im-pression that you are trying to see how much time you can spend in cleaning the carpet. I find it most satisfactory to use the

vacuum cleaner every two weeks, as my carpets get pretty dusty in that length of ttime. I use the carpet sweeper and broom in between times and find much more dust on the fur-niture when I use the sweeper. If the cleaner works properly, very little dust is raised.

Four Years of Satisfaction Mrs. W. W. Ballantyne, Perth Co. Ont.

I have been using a vacuum cleaner for the past four years and I am very well satisfied with it. It is excellent for cleaning carpets, furniture, pil-lows, and mattresses. I find that everything is thoroughly cleaned, and when it is used frequently the house-cleaning is not so hard as before. Vacuum cleaning is more sanitary and healthy than the ordinary sweeping, as there is no dust at all from cleaner.

The only drawback I find in con-nection with it is the power. Unless one has electric power it takes an extra hand, though even then it isn't difficult to work.

Rent Pays for Machine

Mrs. Albert Loucks, Hastings Co., Ont.

simply would not think of doing without a vacuum cleaner. I rented a machine one year and cleaned my carpets with it. I was so pleased that I bought the machine and have used I bought the machine and have used it for three years, during which time it has done fine work. The first year that I had this cleaner I rented it our and made enough money to pay for the machine, besides doing my C'en cleaning with it.

The vacuum cleaner operates with out causing any dust. Hence out causing any dust. Hence one can do all the other cleaning before the carpets and still leave the furn-ture spotless. It is one of the very best labor saving devices that I know of and certainly takes dust and di out of the carpets; dust which cannot extract by any other method I know this from experience, and be lieve every home should have vacuum cleaner. I can recommen them.

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Water for the Laundry

By Juniata L. Shepperd Where there is not running wate in the house, a barrel with a fauce placed about one-third of the distance from the bottom may stand in th shed within equally easy reach of bot boiler and tubs. This should be fille with water the day before the was ing is to be done. If the men can it ways do this filling with the aid of stepladder the barrel may rest on platform raised high enough to allo the water to run by gravity through the faucet and be carried through length of rubber hose directly in the tubs or boiler. Those who are fortunate enough

to have a pump very near the sh may use this same rubber tubing fill the barrel without the aid of s ladder or men. A home-made d leading from the shed to a safe tance from the house and well, emptying where the water will carried off and the ground kept steri ized by sunlight, will very much less the heavy labor of emptying tub besides protecting the worker from

Soft water is preferable for use Carpet. Bott water is prevention of the section of

January 22, 1914

22, 1914

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of "Farm and Jsers.

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ate ear the sh er tubing e aid of s o a safe d ad well, at ter will d kept ster much less ptying tub worker fro

le for use not availabl tened on H

January 22, 1914

FARM AND DAIRY



One Source of Canada's Supply of Foreign Butter

One source on canadas souppy to roreign butter le Canadian export butter trade is now a matter of history. We are now listed moug the importing countries. New Zealand is for the re-informents of the British Coumbin markets, and builtoning largely to the re-lating in Alberta. This New Zealand factory of reinform that country is also a noes factories in New Zealand. It could and could and could and owned cooperatively by its farmer patrons.

The heat latter is a latter of the state pattorn.
 Second at a latter of the state of the state pattorn.
 Second at a latter of the state of the state

The second secon

ptember colored cheese: 1. Geo. Em. 95.49; 2, H. E. Donnelly, 96.33; 3, H. n. Molesworth, 96.32; 4 and 5, tile, D. ries and John Cuthbertwon, Sebring-8, 95.99.

Jno. H. Scott. 810, H. S. Co. Mras. O. Ouekow, Mt. Elgin, silver cup, Imperial Bank of Canada, to be won three times, or twice in succession. The Simpey, Newry, Silo challenge cup, Gan won three times, or twice in suc-o-cation

Skim milk cools quickly on a cold winter's day. Make the calf feeding the next operation after milking.

The future progress of the cheese industry will not depend on improv-ed methods of making, but on the quantity and quality of the milk de-lyword by the patrons. Gheese makers shows, convince their patrons of the shows, convince their patrons of the milk --G. G. Philorup first-class milk --G. G. Philorup first-class





03



OR SALE - Iron Pipe, Palleys, Belting, Rails, Chain, Wire Penoing, Iron Poets sto, all sizes, vory obsar, Bord for list, stating what you wast. - The 'imperial Waste and Metal OC. Dept. s. D. Queen Street, Montreal

DAIRYMEN! You can buy **Cotton Seed Meal** At \$33.50 F.O.B. Forest s: Cash with

FOREST, ONT.

Is Your Farm Paying?

H. FRALEIGH

The Fence That's

Locked Together

It's close enough to keep

small fowl in and strong enough to keep large ani-mals out. Securely locked

mais out. Securely locked together at each intersection wires. It's many times heavier onger than poultry netting, and rell gaivanized, will last many inger. Top and bottom wires a heavy. No top and bottom equired. PEERLESS Poultry will be determined heavy. that

up some, by Yours truly, Joe Boothroyd

where, Live agents was ted in guest territors

Here's How Strong It Is

I am writing a testimoni FEERLENS Junior Chicke foet high. It turned two 10 pointds. They ran full

The Banwell-Hoxie Wire Fence Co., Ltd. Winnipeg, Man. Hamilton, Ont.

B. C. Surrey Center, B. C. Jos Boothoyd Think of it—a poultry fence strong nough to withstand the combined weight (two big hor-s. And that without a top bottom board either. If you are interes-d in such fencing, write us. Ask for our terature. We also manufacture farm fence A great many farmers at the present time find that their farms are not paying, but they do not know just where the leak is. In other words these farmers keep no books. Start the new year right by getting a ting

Farmer's Record

and Account Book and Account BOOK These books are most complete and have been prepared empe-cially for use to mest all the An account book is geomething very farmer should have, and this is the best and most com-very farmer should have, and this is the best and most com-line dollar and we will not be the state of the state of the state of the state of the term and Dairy, and you are desirous of securing one of our account books we will be

FARM AND DAIRY Peterboro, Ont. Ad. Dept.



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

THE HOLSTEIN ASSOCIATION AND THE NATIONAL RECORD BOARD

THE ROLSTEIN ASSOCIATION AND THE NATIONAL RECORD BOARD The set of the set of

An Important Report

with the excellent work being done by the association new secretary. If the members of the special com-mittee were current in their report in in-dicated that the other live stock associa-tion of the members of the special com-mittee were current in their point in the dot of these associations believed that they had saved hundreds of dollary a space in the stock and the special comparison of the special meeting, to write to the members are information than had been given at the annual meeting and the special comparison of these associations believed that they had saved hundreds of dollars a space in the special meeting of the special comparison of the ensuing the special special special special special be annual meeting. An Harn the sec-vator of the Sational Record for the special special special special special to give the fullest possible information, that that chain and possible information that the unit are opportunity should be the ensuing and the special special special termines of the committee. The members of the committee were not in a position to confer with an opportunity should be the members of the committee. This op-putual had been done. More, and stock that the whole subject had special values of the special special bases and the special special base time whole subject had special values of the discussion at the meeting of the discussion at the meeting of the discussion at the meeting of the special Board should be published, while, stockprille, and dV, we man the special special base of the special special values to the discussion at the meeting of the special Board and Dairy. We Robert while, stockprille, and dV, we man the special special base of the special special values to the discussion at the meeting of the special base of the discussion at the meeting of the special base of the special special

Record Board Minutes

ed by it with the greater part of that "We are open and ready for all fair the second second second second second healthy oriticism will heal by a to make in the conduct of these affairs. But balleve that the report that has been it on be only the second second second too by the two men cent to Ottawe, can searcely be called a fair and liberal crileion of our work. "I would like to explain the difference priverse like pointial work required in re-

cording a Holstein and that required in recording a Bho-horr and some of the other breeds the give a till policies for issue. Here is a Holstein policyre as typed by the secretary in their office, and you can see there is not very much to write that much with a sypewire, and the full amount of work that is done with a serificate issued from than an index to the breeding of that animal.

than an index to the breeding of shak-amplal. The extent of their certificates ar issued from their office as to the breed-ing given for any animal. You know that in most of the breeds we give the full pedigree for the simple reason that a man may have the full breeding of the animal there before thin. I have here a statement prepared by Mr. Brant It is as follows:

Mr. Brant's Statement

B: is a follows?: *M. Brant's Statement* "From the date in hand, I cannot tell "anold what is would have cosk at of "for the date in hand, I cannot tell "anold what is would have cosk at "for printing and an item for pub- "for printing and an item for pub- "the for printing and an item for pub- "the form for pub- "the form for pub- "the form for the form for the "the form for the form for the "the form for the form form "the form for the form form "the form for the solution, that un- "the form of the opinion, that un- "there is horthore Association we "that for an of the opinion, that un- "there is an an of the opinion, that un- "there is an an of the opinion, the is "the form of the opinion, the is "the form and when the the "the form and when the the the form and the state the the form and the state the the form and the state the the form and when the the the form and the state the the form another the form another the the form another the form another the form another the the

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SALE OF J. A. STEWART

SALE OF J.A. STEWART Good steady syncer was and for the Holetoine soil by J.A. Streak of Monie. Ont. at his saie that was advertised for several weeks in Farm and Dairy. The forestreak weeks in Farm and Dairy. The Pack that went to Wm. Cooner, of Sti-ling, for 83.8. Mr. Cooner, secured sev-tions, the second second second ten being when to Wm. Cooner, of Sti-Cher good prices realized were: Emerg Queen De Kol Piscetty, 817.8, M. Joharsm. Norwood: Pauline Emery, De Kol, 8188, G. Gooderham, Toronto, Inda Pellord, Em. Still, Johann, Still Jetterije, 820, B. Johnson, Norwood: Heard, Chenik, Marie, Madeline De Kol Pisterije, 820, B. Johnson, Norwood: Heard, B. Gooderham, Joronto, Inda Pellord, Em. Still, Johann, Still B. Heden, Stirling, Coching Johann, Kod, C. Shiro, Stirling, Norine Johanna Coch, Belle 4th, 198. G. Gooderham, Toronto.

SOUTHERN ONTARIO CONSIGNMENT

the following announcement appears the catalogue of the Southern Ontario asignment Sale Co., which is now The

in the datalogue or consignment Sale Co., which is nor "A" of the third time we are set. "The the other than the dairymen of Ganada. Our past mice have established the fact that we are willing to give ever-pions in this country for an honestly at verticed and conducted autoin sale. Therefore it is with a feeling of con-tion ring some of our best eattle as make our annual how to the burying pul-lie. We feel that you will appreciate co-of catile that are offered at any ca-in Canada and that we do not advergive tuberculine-tasted catile, but we do as and remember the poor man who buy one animal gets the same treatments in version and the two buys a co-text of the same treatment in version of the same treatment in version the same treatment in version of the same treatments in version the same treatment in version buys a co-text of the same treatment in version buys as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as co-text of the same treatment in version barries as the one who buys as as the one who barries as th rio's 85e SLOILLINE SLOILL Mare 10 87 It is

one animal gets the same trainmant is very way as the one who hays a car-bar and the set of the same training and the will be sure and return the next year not only as a buyer, but as a friend in the satis we are offering this year year being the same training the same re-ther individual quality, but also we their large records for both weekly as yearly work. To the buyers or breach from the same and went his will be a for their large records for both weekly as yearly work. To the buyers or breach from the same and went his will be a for the fighter that a same training the the fighter and the same well of them as yearly more the same and the same same year one she who is infraested in the yitation to visit us before the sale as hat a close inspection of our course ing very one who helped as moby is make our former sales a success, as wishing every reader a hapy and pre-perous new year. The Southern Ontic Manager. Que Salo

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required in some of the pedigree for thes that we pedigree as their office. A very much rk very long t ypewriter. of work that issued from more or less ing of that

January 22, 1914

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I cannot tell e cost us to Record durshows an for pub s separated s and Sta-could tell sts would business is the Holstein business is the Holstein andpoint of the Holstein Association We Association teein Records and the sta-nipment, etc. other records id out of the report. They mation. They mation. They 26)

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MARKET REVIEW AND FORECAST

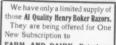
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FARM AND DAIRY

MISCELLANEOUS LYNDEN HERD

PRIZE-WINNING SHROPSHIRES FOR SALE One Shearling Ram, three Eves, one Shearling Eve and one Eve Lamb, Registered stock in pink of condition, Price, \$100. F. W. L. TAMBLYN - ORONO, ONT.

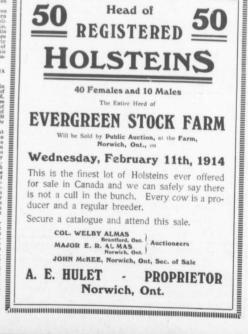


NORFOLK SALE, SIMCOE, MARCH 11, 1914 Norfolk Holstein-Friesian Breeders' Club J. ALEX WALLACE, Secretary- Treasurer

SIMCOE, ONT.

DAIRY HERD FOR SALE

With records for [51] as follows: -1 cow, age 1 years, 455 [18]. milk, [51].5 [as, butter fat: 1 ow, age 1 years, 140 [bs, compared by the second sec R. G. ALLISON BRISTOL, QUE.





BULL CALF FOR SALE Brookalse Farm offers a H.-P. Bull Galf for sale, born Oct. 16th, 1913. Dam, 164 line, born 155 line for Jays Sire, Patrives Korndyke line for Jays Sire, Patrives Korndyke line for Jays Sire, daughter, a son of Pontiae Korndyket, 4 line, Apply to

J. M. JOYCE & SON, HAY BAY P.O., ONT., VIA NAPANEE SPRINGBROOK STOCK FARM

New Subscription to FARM AND DAIRY, Peterboro HOLSTEINS MODILAND FARM HOLSTEINS Name Creen Pleaded by there to Banne Kol Champion (Thi Marking Strategy Strategy

protect his soil from winter rains. The cover crops grew so well that he bought in sheep to pasture. He now turns off 300 lambs from a 250-acre farm at \$8 a-piecc."

"My report deals with the most

VALUABLE LESSONS FROM EXPERIMENTAL UNION DELIBERATIONS

Practical Information Such as Every Farmer is asking for Summarized from Many Addresses and over 5,000 Experiments Conducted all over Ontario. Other Notes on the Experimental Union Meeting at Guelph

The first session of the 30th an-mul meeting of the Ontario Ex- be best suited to western Canada, has perimental Union convened un-proved to be the highest yielder in the oversite of the session of th occasion was the formal opening The on Monday evening, January 12, the new Field Husbandry building 12. of

This building, 146 by 63 feet, and erected and equipped at a cost of \$65,000, is the first building to be co, ow, is the first building to be paid for with part of the Dominion agricultural aid grant. It was fit-ting to the occasion that the Hon. Martin Burrell, Federal Minister of Agriculture, on behalf of his Gov-ernment excented to the second ernment, presented the keys to

ernment, presented the keys to the Hon. James Duff, Minister of Agri-culture for Ontario. The president of the Union, Lewis Toole, Mount Albert, Ont., who 35 years ago was one of its founders, remarked in the course of his opening. address that about that time he had a 10-acre field of clover that badly winter-killed. He did not plow it down, however, but let it stand, and from the 10 acres saved two bushels of seed That seed he sowed, and the clover which it produced has ever since proved hardy. He then presented a sample to Prof. Zavitz to be tested other varieties.

"There has been a tendency on the art of some," said the Hon. Nelson art of some. Monteith in his reply to the presi-dent's address, "to doubt if it is in the best interests of agriculture that of the young men who come so many to the Ontario Agricultural College engage in teaching rather than pracengage in teaching rather than prac-tice. I think it is a wholesome con-dition. It is not well that all should return to the farm; some should en-ter lines that have to do with the diffusion that is so necessary."

NEARLY 5.000 EXPERIMENTERS

The report of the secretary, Prof. Zavitz, showed that the number experimenters is nearing the 5,000 mark. In 1913, a larger percentage of satisfactory reports were received than in any other year. It has been the endeavor to give the cream of the of experiments conducted at College to the experimenters throughout the province to be further tested. The number of district experiments now numbers 35.

That the work of the College is appreciated is evidenced by the fact that in barleys, for instance, 94 per that in oalleys, for instance, ³⁴ per cent, of the grain grown in the pro-vince is from seed distributed from the O. A. C. The O. A. C. No. ²¹ bar-ley is still proving the best yielder. Although \$37,000,000 worth of oats

are grown in Ontario every year, study has been given to this There are far too many "best" ties. The result is lack of unicrop. formity and therefore a poor market. An endeavor to find a variety that would fill all requirements has re-sulted in the selection of the O.A.C No. For two years it has 72 oat now proved the highest yielder in 187 It is also an oat of fine experiments. experiments. It is also an oat or nme quality. Another selection, O.A.C. No. 3, has proved a heavier yielder than Alaskan and Doubeney, two early varieties, and is also the thin-nest in hull of 300 varieties.

"When the manure pile is small," said Prof. W. J. Squirrel, "we must resort to clover. An experiment with wheat on clover sod showed an in-crease of 21 per cent. over wheat on grass sod." A spring rye, O.A.C. No. 61, se-cted from German seed, surpasses l other varieties by at least three ushels an acre. Of all mixtures of "My report deals with the most important crop of this country—the boys and the girls," stated Prof. S. B. McCready. "The schools division B. McCready. "The schools division of the Union is endeavoring, by exbushels an acre. bushels an acre. Of an mixtures of grains tested, oats and barley, sown one bushel of each, gave the highest yield. The addition of other grains tending the course in nature study, to better fit the 180,000 pupils in the rural schools of Ontario for country life. By giving agricultural instruc-tion and conducting experiments with this mixture decreased the total vield.

Canadian Beauty and Early Britain

No. 100 March 100 March 100 1.10 . .

Representatives of a Great Industry in Convention at Stratford

Well over 300 dairymen, cheese makers, butter makers and farmers from all sec-tions of Western Ontario gathered at the W.O.D.A. Convention last week. The delegates seen in the illustration are only a few of those who attended.

are the best varieties of peas; Pierce's crops, there is no reason why the improved tree bean, an English var- country school should not become the jety, yielded 35 bushest an arcs more centre of agricultural interest in the

The Yellow Leviathan leads all mangels with an average yield over Ontario of 32½ tons an agre.

There has been some controversy

to the relative merits of White Cap Yellow Dent corn and Wisconsin No. It now appears that there is more differences among strains of W.C. Y.D. than between the varieties. The late W.C.Y.D. comes first, then Wisconsin No. 7 and the early W.C.

'In planning a rotation of crops said Prof. Morgan, of Knoxville, Ten-nessee, "there are many points to which nature furnishes a clue if we which nature turnishes a clue if we will but go to her for suggestions. In the first place, she provides for us deep and shallow rooted crops; we have two sources of nitrogen, the air and the soil; there are winter crops that take advantage of the late fall and early spring growing season. Then, too, we must learn to protect the soil from heavy rains by keeping it covered as much as possible with crops. With the right crops we can argely control weeds and keep more stock

"One man in Tennesee picked up \$2,000 by using a proper rotation. He was obliged to plant cover crops to

Percheron, Clydesdale and Shire

Belgian, Hackney and French

Percheron, Uyuksuait anu sinit sullion, Mares and Fillies We have a hetize banch of skillion and mares in our harns at present than ever hetore. Coech Stallions own feed, do our own having and sulling. No commission accels to share profits with We have nice, big, stylich blacks and gravy, with right kind of home and feel, and good. We have nice, big, stylich blacks and gravy, with right kind of home and feel, and good. (List of prizes wwn.-Sheerhook and Othwan on the hard, is first, d areaconic a thereis a fourths and 6 championships. This speaks stronger than works as to be quality of my stock. These homes will be in Othwan at Fall Stock show.

J. E. ARNOLD, Grenville, Que. Grenville is midway between Montreal an C.P.R. and C.N.R. Three trains daily from

district as the college is the hub of the agricultural interests of the province

COOPERATION OF OLDER PROPLE

"If only the older people would take a keener interest and do all in their power to encourage the teacher, there is no limit to the good that could be accomplished. In a demo-cratic country such as ours, we can have any system of education we choose if we will but pay for it."

The discussion on cooperation brought to light some of the require-ments necessary for successful coments necessary for successful co-poperation. Sir Horace Plunket well said, "Cooperation is organized selfis first necessary to distinguish between cooperative socie ies and joint stock companies. The the latter of dollars. It is a mistake to judge the success of a society by the profits. The choice of manager is important; he should be a man having the true cooperative spirit.

A DRAWBACK TO RURAL CREDIT Speaking in regard to rural credit, Prof. Morgan, of Knoxville, Tenne-see, stated as his belief that a main drawback to such a scheme was the fact that the farmers who have made a bit of money send it out of the country by means of banks. Farmers, too, must cease investing their money in lands for speculative rather than for productive purposes. To secure full credit, lands should be assessed

full credit, lands should be assessed at their full value. The reports of experiments with fertilizers were dealt with jointly by Profs. R. Harcourt and C. A. Zavitz. On mangels, nitrate of soda, which is specially required by this crop, when applied at the rate of 100 lbs, an acre, increased the yield from 30

to 34 tons, the increase of roots costing two cents a bushel. When the application was increased to 200 lbs. When the the yield was 38.7 tons, the increase costing less than two cents a bushel FURTHER RESULTS FROM FERTILIZER.

On one college field, that was poor On one college field, that was pocr in phosphories acid, phosphatic and nitrogenous fertilizers gave the best results with turnips, athough the soil was comparitvely rich in nitro-gen. That many Ontario soils need lime was shown by one particular case in which one ton of lime to the acre increase the yield of fodder corn are increase the yield of fodder corn from three tons an acre to nine tons an acre, no fertilizer being used in the first case. An application of basic

The next case. An application of basic slag alone gave six tons. The cooperative forestry work was reviewed by Prof. E. J. Zavitz. Full advantage is not being taken of the free distribution of trees that is made year 200,000 were sent out to 29 These were planted mostly sandy wastes and hills. This year 500,000 are ready to go out.

While the woodlands of Ontario are area being constant at about mine per cent., the quality is decreasing rapidly.

CONSERVATION SURVEY F. C. Numuck, of the Commission of Conservation, told of the farm sur-yey work carried on in the province: 200 farms in five counties were visit The survey indicates ed. large room for improvement in methods Of the farmers interviewed, 93 pe 93 ne cent, were making no special effor to prevent manure waste; 56 per cent followed a systematic rotation of followed a systematic rotation of crops; only two per cent. made spe-cial selection of seed, such as adve-cated by the C.S.G.A.; little atte-tion was given to the selection of the best varieties of grain. Splendid results have been obtain a with the selection of the selection of the best varieties of grain.

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cation. In the case of quack grass and perennial sow thistles, rape sown about June 15, following thorough spring cultivation, will eradicate these weeds. The rape was sown in drifts 6 lbs. to the acre, and cultivated long as possible. Bladder cam 136 Bladder cam pion was successfully eradicated fall and spring cultivation followed by a crop of buckwheat. The next the land was put in hoed crops. The next year

WEED ERADICATION BY SPRAYING

The spraying of mustard in gra with iron sulphate proved efficient i every case. It was applied at the rate of 1% to two bbls, an acre, 8 fate of 1% to two buis, an acre, a lbs. of sulphate to 40 galls, water. I one case the grain from unspraye and sprayed plots was measured an nine bushels of barley an acre was the resultant increase.

BROOKDALE OFFERING

BROOKDALE OFFERING The built call we are offering on a ther page is about half black and have while, nicely marked, a good individe marked and the short half black and have black index marked and the hotter seven days. Jeannets Artis has the method black isseen, manuely Vicks we have a state of the seven day Violet Maud Jeannets Artis, mill b the built Sto Has, seven day Violet Maud Jeannets Artis, mill b the built Sto Has, seven day Violet Maud Jeannets Artis, mill b the built Sto Has, seven day Violet Maud Jeannets Artis, mill b the built Sto Has, seven day Violet Maud Jeannets Artis, mill b the built Sto Has, seven day Violet Maud Jeannets Artis, mill b the built black have been built dorf Burke, who is only removed the dorf Burke, who is only removed the Keind Antier Hoy 3rd. De Kolb who do this are. Pontias, Candylois presents built of the breed. Fairrise's blood of has are. Pontias, Candylois presents built of the breed. Fairrise b the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who will be tested as they from the fas day there in our breed at prese who is will be tested as they from the fas day there in our breed at prese who is will be tested as they from the fas day they fasted as they from the fast day they fasted as they from the fast day they fasted as they fasted they fasted as they fasted as they fasted they fasted as they fas

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HASTINGS CO., ONT. CIAPMAN, Jan 14 - A decidedly cold wave has struck here twos running low. The lenge number of cattions has here abspeed out early in the senson has here do out early in the senson has here a during the read supply, but there is a series the senson has a set of the senson has here a during the senson has a set bringing approximation of the senson has been approximate of the senson has a sensor being approximate of the sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor being the sensor has a sensor has a sensor has a sensor has a sensor being the sensor has a sensor being the sensor has a sensor has a

are in good demand, and her cattle tringing 857 a cwrt.-H. K. Toos are MORFOLK CO. ONT. HERMANNER CO. ONT. HERMON Jan. 4. WARANNER CO. HERMANNER CO. H

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Jas. Dutter. L. H. Lipsti, Straffordville, Ol. Onnoleman Gueen, Bick G yr. Sn. 17d.; M55 Bas. mills, H.15 Bis. Cark, J.75 Su. Batter, M. McDuweil, Woodbrock, Ont-and, M. Batter, Pasch 767, 75, 58, 2014. Statistics, Science Statistics, Science Bas. butter, H. Lipsti, Sumfordville, Seifer Four Ven-Old Class Seifer Four Ven-Old Class Science W. H. Mason, H. R. No. 4, Shiro, butter, W. H. Mason, H. R. No. 4, Shiro, Science, Ont.

10. ditter, L. H. Lapst, Strahordville, 6. Netita Abekowi, 1519, J. S. M. Lapst, 4246 Jan, mill, 123 Jb. 2018 and 124 Jb. Bur M. R. Haler, Sparin Liu 2018, Jb. Tim. 5d., 3. Journaby Mercedes, 15135, Jb. Jb. Jb. 5d., 4. Junior Threen, Tillsonburg, Ont. J. Leonora Hengerveid, Journal Cass, 201, 5d., 437, Jb., milk, 19.97 Jbs. fat, 12.31 Jbs. 5d., 437, Jbs., milk, 19.97 Jbs. fat, 12.31 Jbs.

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| hing of the Pontiacs |
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| 368 A. R. O. daughters: 27 A. R. O. sons. 44. P. Pontiao Lassa 44. 11. K. P. Metia 37. 31.74 K. P. Laith Cohrido 39. 31.74 K. P. Alcartra 34.7. 30.37 K. P. Alcartra 32.40 K. P. Lilith Cohrido 20.90 K. P. Homory Kate 20.00 K. P. Homory Kate 20.00 K. P. Hesseltje 37. 34.80 K. P. Hesseltje 37. 34.80 K. P. Mark Pieterin 34.97 K. P. Hesseltje 37. 34.80 K. P. Mark Pieterin 34.97 K. P. Mark Pieterin 37. 34.80 |
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| 35 others with records above 20 lbs |
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| Sixteen 2-yrold daughters have rec- |
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ords averaging 16,459.4 lbs. milk, 766.01

Sire of the Dam of our Herd Bull



Pietertje Hengerveld's Count De Kol

| 98 A. R. O. daughters. 44 A. R. O. sons. Blanche Lyons De Kol |
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| Blanche Lyons De Kol |
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| De Kol Oreamello 20 17 |
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| Countees Verbelle 94 57 |
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| Verbelle De Kol Hengerveld 26 04 |
| 34 with records of 20 to 25.57 lbs. |
| The first sire to have three 32- |
| lb. daughters and the only sire |
| to have thirteen daughters with |
| one day milk records averaging |
| over 100 lbs. |
| Grandsire of: |
| Nudine Lyons De Kol 30.71 |
| Sara Jewel Hengerveld 3rd 30.40 |
| Creamelle Vale |
| 365 days |
| Milk |
| (World's milk record). |
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bred, and Bulls from 7 to 10 most. My herd bull is **Ceast Respervid De Kst**, No. 6009: dam, Sara Jewel Hengerveld 3rd, first cow in Canada to make over 30 lbs, butter in 7 days-record 30.4. Sold for \$2,000 Write me or came and

2,000 12,000 13 see what we have that Write me or come and see what we have that you think it would pay you to buy. WM. HIQGINSON - INKERMAN, ONT.

FOR SALE

Patti Concordia Queen De Kol Aged 4 yr. 9 mos, sired by brother to Helbon De Kol, Canadian champion 30-day record; due to freshen in March to a Arender and the second barrier fail. Arboadst BROS. SEBRINGVILLEON. Arboadst BROS. SEBRINGVILLEON. Marking bail-ubbroadin to barrow and the second baro

W. A. ANDERSON · R. R. S. PETERBORO



SIRE-Prince Hengerveld of the Pontiacs, who is a brother to the new World's Champion, K.P. Pontiac Lass, 44.18.

DAM-Hulda Wayne of Manor, A.R.O. 2 yrs. 6 mths. 6 dys., Milk 396.2, Butter 20.81. This heifer is still in test, and will make a very creditable record for 30 days, as she is averaging over 4% fat. She is a daughter of Korndyke Johanna De Kol, one of the greatest sires in Canada to-day. He now has 11 A.R.O. daughters. The entire 11 average over 15 lbs. butter in seven days, all as two-year-olds. Her Dam a good producing daughter of Victor De Kol Pietertje, who is a brother to Hengerveld De Kol and Pietertje Hengerveld Count De Kol and also De Kol Burke, and they together are the Sires of 296 A.R.O. daughters, 28 with records averaging greater than 30 lbs. This breeding is hard to beat. This young fellow is more black than white, and is a dandy in every way. If interested, write for pedigree and photo.

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FARM AND DAIRY



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Splendid Buildings on a British Columbia Experimental Farm

We have here a general view of the buildings on the Agassis Experimental Far-The superintendent's readence is hidden in the trees to the right. One of the policies of this farm is to encourage dairjung by maintaining on the farm a splead demonstration herd of dairy catile.

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INFORMATION GLEANED AT THE E.O.D.A. CONVENTION

'Continued from page 15)

Wechnesday meeting in nis own in-imitable style. That people who kebel at the price of milk and other dairy products are protesting against the price of the cheapest proteid foods that we have, we have the text of the address of Prof. Responses of Guelba, Milk at eight center of Guelba, Milk at eight center of Guelba, Milk at pent. For the same expendit dollar-ter at 30 cents a pound will produce 10,000 calories, cheese at 20 crs. as the creat grains, oats and beans, which are cheaper than milk, but come in another class of foodstuffs. Could all consumers be made aware of the facts of the address such at means a "milk strike" would be means a "milk strike" would be unknown.

unknown. Other speakers were Hon. Jos. D. Duff, Minister of Agriculture for On-tario, who paid a feeling tribute to Sir James Whitney, Iying seriously ill, and J. A. Ruddick, Dominion Dairy Commissioner, who took his audience on a trip around the world, giving lantern views of dairy scenes in many countries.

THE MAKERS' DAY

Thursday was Cheese and Butter Makers' Day, and the boys turned out in good numbers. Mr. Barr first out in good numbers. Mr. Barr first presented the report on the dairy ex-hibits given elsewhere in this issue. L. A. Zufelt of Kingston reviewed creamery conditions. Canada, once an exporting nation, is now import-ing. Mr. Zufelt doubted if the aver-age Ontario butter could hold its own or the home machen is age Ontario butter could hold its own on the home market in competition with the imported article. He advised cream grading and payment for qual-ity and more frequent delivery of the cream at the creamery.

Teram at the creamery. "Selling green cheese has injured the Canadian cheese trade more than all other factors combined," was the serious charge made by Mr. Ruddick. He advocated more cool curing room and a higher price for making. The cost of making cheese to the patron is coming down, he announced, while increase. But this was prelimi-nary to Mr. Ruddick's main topic--holen boxes. broken boxes.

Half the carloads of cheese reaching Hait the carloads or cheese reaching Montreal have many boxes damaged. There were more complaints last sea-son than ever before. This break-age can be largely overcome by the age can be largely overcome by one proper stowing in the cars, and com-plaints are infrequent from those centres where the factories employ a man to supervise stowing. Styles of man to supervise stowing. Styles of boxes were discussed and Mr. Rud-dick expressed his preference for the dick expressed his preference for the New Zealand two-chrese crate. Three Montreal ordiner men who spoke. A G. Ayer, W. C. Wieland, and E. Denning, strongly advised against auch a course, and encouraged stick-ing to the old style box if material for its manufacture can possibly be

Mr. G. G. Publow expressed his belief that broken boxes are due not so much to poor boxes as to making so much to poor boxes as to making the cheese too large for the box in an effort to save expense. Mr. Pub-low was at his best, and the splendid advice that he gave will be dealt with fully later.

fully later. "In the past the Canadian dairy farmer has been a hewer of wood and a drawer of milk to the factory for mighty little returns," said Prof. H. H. Dean of the Ontario Agricultural College, in an address that stracted

Senator Derbyshire presided at the commensurate with the work, skill and Wednesday meeling in his own in-investment required. "What we need,' said he, "is an agricultural That people who kebel at the price Moses to lead the farmer into the of milk and other dairy products are professing against the price of the sent unsatisfactory conditions on the cheapest proteid foods that we have, farm he saw in a closer union of pro-was the text of the address of Prof. R. Harcourt of Guelph. Milk at the cheap interchange of products.

The characteristic and the second evening session was quite equal to the first in both inter-est and enthusiasm. J. R. Dargavel, M.L.A., presided, Dr.G. C. Creel-man, president of the Ontario Agri-cultural College, toid the wherefore of agricultural education in the college and the public school. He told of the efforts that are being made in On-tario to take the college to the far-mer and through the school to all of the younger generation. He advised the younger generation. He advised the farmer to retire on the corner of the farmer to retire on the corner of his own farm, not to move to town, thus losing to his district his influ-ence in the church, the school, and all other interests of the rural com-

munity. And then Andrew Broder, farmer and Member of Parliament, with his Abe Lincoln drawl and fine mixture of the serious and the humorous, de-lighted his audience for half an hour. "Don't let your wife be known on the street as a farmer's wife by the cut of the clothes she wears," was a characteristic and pungent remark. Mr. G. A. Putnam spoke on the work and progressiveness of the Wo-mer's Institute of which he is supermen's Institute of which he is superintendent.

A representative of that body of A representative of that body of men who are taking the college to the farmer, the district representatives, appeared before the convention on Friday morning in the person of E. Bradt, B.S.A. He told of the work Bradi, B.S.A. He told of the work the representation of the source of the vertical transformation of the source of the breeders' and farmers' clubs, the en-couragement of cower' clubs, the en-couragement of cower's clubs, and so forth. Two of the specified, and so forth. Two of the specified of the programme were unavoidably on the programme were unavoidably on the programme were unavoidably on the programme of the specified of the specified programme were unavoidably on the programme of the specified of the specified programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the programme of the specified of the specified of the specified of the programme of the specified of the specified of the specified of the programme of the specified of the specified of the specified of the programme of the specified of the specified of the specified of the programme of the specified of the specifi Stock Commissioner.

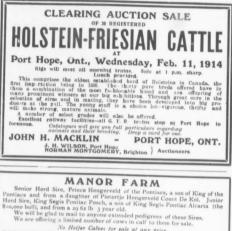
SECRETARY'S REPORT

"The Dairyman's Association has "The Dairyman's Association has done more than any other organiza-tion in Eastern Canada in building up the dairy industry of this coun-eff, the association. He commended the Kingston Dairy School and G. G Publow and his assistants on their good work. "Whore stringent me-thods will have to be resorted to," he concluded, "if the pernicious habit of tampering with milk at the farms is to be effectively stamped out."

Ontario Fruit Improving

Mr. C. W. Baxter, Chief Dominion Fruit Inspector for the prairie prov-inces, is spending a few days at head-quarters in the Department of Agri-culture. Mr. Baxter reports that the Ontario growers have improved their standing in the western markets very considerably during the past season, notwithstanding the fact that the crop was rather a poor one as regards qualwas rather a poor one as regards qual-ity. The general improvement in packing, both in barrels and boxes, has inspired confidence in Ontario apples as well as other fruits. This general improvement in the standard of Ontario packing makes the violations that are found all the more noticeshe

1. Dean of the Ontario Agricultural Mr. Baxter thinks that the compe-more steerious perhaps that attracted tition which Ontario and British Co-more steerion perhaps than any orb-lumbia growers meet with from the the often has before, that the financial matter of packing than in the fruit returns to the farmer have never been itself.



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