

VOL. XXXII.

NUMBER 17

ARM AND DATA

RURALHOME

PETERBORO, ONT.

APRIL 24

1913



INTELLIGENT BREEDING AND LIBERAL FEEDING EXPLAIN THE FAME OF THIS GREAT HERD one who puts the proper emphasis on all the factors that go to encourage milk production. He must be feeder and duct of such well rounded management. This herd has produced more world record cows of the breed than any other herd in Canada. They are well bred to start with. Then they are fed well, each cow being fed according to her special requirements. Many other breeders have great cows of which we never hear,

because some one factor in their management is neglected—usually the feeding.

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GANADIAN GOUNTRY LIFE

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IN TWO

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Save you Time, Save you Labor Save you Expense

Because it will cut the labor of skimming the milk more than in two, not only because it turns easier than most other hand separators, regardless of capacity, but because it does the work in half the time

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favorite. It has no equal. little but is mighty in results.

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Stock

Book FREE The Banks and the Farmer

A. M. McNeil, Carleton Co., Ont.
"Cultivate the acquaintance of your anker," says Mr. J. A. Macdonald, in a most excellent article in and Dairy of March 20th N Nothing can be said against this doctrine. is admirable. Under the present system of banking, nevertheless, the banker can do little for the average farmer. The man who can "cultivate the banker's acquaintance" is usually not so much in need of money as the creat majorities. great majority of farmers who cannot cultivate the acquaintance of a banker. I venture to say that considerably over half the farmers of Canada practically never have anything that would form even a nucleus of a bank account. But they need capital, need credit, and the ordinary banks simply cannot do the business.

What is needed and what we will have to have in Canada before credit be used to any extent by our farmers, are local associations of dozen or two dozen individuals, who dozen of two dozen individuals, who will start with what little capital they have, if it is only \$50, and will loan it to each other, and in all probability help one another to secure credit through the association, which will enable them to make their farming operations more profitable.

MUTUAL HELPFULNESS

Mr. Macdonald says: "No one wante his neighbor to endorse for him if he can at all help it, and I am sure if he can at all help it, and I am sure no one wants to endorse for any man, even his brother." This must be changed. These associations will show farmers that instead of this spirit, they will adopt the contrary, "Each for all, all for each." Of course, this will mean that no one will secure εntrance to the society unless he is worthy of credit, and will trust and can be trusted. It will mean, too, can be trusted. It will mean, too, that every loan among themselves will be scanned most critically. No loans will be made without every member having full knowledge of how the will be made without every meaning full knowledge of how the money is going to be used. Each member will also have an opportunity to pass his judgment as to whether the investment is a good one or not, and in all probability if there is any doubt about the investment, the mem-ber will not secure the loan. This is a work which can be done by neighbe done by a banker; and yet it is a work that must be done before it would be at all safe to loan money in farm operations

CENTRALIZATION TO FOLLOW

This, of course, is only the beginning. These societies, as they increase in number, will very scon demand a central bank, which may be one of our ordinary banks, but more probably a specially created copora-tion, which would supply money even cheaper than the ordinary banks. When we have enough of these small local associatins then it will be easy to introduce the land banks in use in most European countries, and do away with the exorbitant interest on the loans carried by our lean com-

All these things will take time, but the beginning is small local associa-tions among farmers themselves, using money, lending it now to one and then to another as the case may be, and securing additional money, from outside sources, on the money, from outside sources, on the credit of the members combined. This is not merely a matter of theory even in Canada. It is already beginning, and we have here in Ottawa a half-dozen societies of this kind, cno among the civil servanta and several among the laboring people of Ottawa and Hull. They are working most admirably. Of cou.se, it must be admitted that it is somewhat easier to form them among working people and permanent residents, such as civil servants, than it would be among farmers, but exactly the same thing is possible among farmers as soon as they are educated to it

Agriculture in the Schools

B. McCready, Director of Eletary Agriculture Education for mentary the Province of Ontario, is alive to the importance of teaching agriculthe importance of teaching sarriculture through the medium of the nuight
school. One of the methods that Mr.
McCready is adopting for the forwarding of agricultural education in
public schools is the supply of school
teachers with agricultural bulletins.
These bulletins deal with the manage,
ment of school gardens and suggestions and helps to teachers. The latease one contains a description of the
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enquiries at the post effices or to no-tify Mr. McCready personally at Guelph. These bulletins may also be Guelph. These bulletins may also be obtained by any person interested in this phase of education by sending their name and address to S. B. McCready, Guelph, Ont.

Quality Spells Success

W. H. Bunting, Lincoln Co., Ont. It was my privilege to visit one or two important sections of the United States in connection with my recent tour of the fruit-growing districts of Canada. The one thing that impressed me most strongly, amongst our cousins to the south, was the strong cousins to the south, was the strong emphasis placed on the question of quality by those who were most suc-cessful. Every possible method that will secure quality, finish and beauty of appearance in the product is being sought by many of these men and adopted. The result is apparent in the high energy which yas now being adopted. The result is apparent in the high prices which are now being obtained for Hood River, Wenatches and Yakima apples, and in the re-jutation which many New York State leaders have established in the prin-cipal and most discriminating market. of the east

It has been demonstrated over and over again, in every province of the Dominion, that while there is a very large surplus of indifferent fruit produced and offered to the public, market never has been, and will not for years to come, be fully supplied with fruit that can be called strictly "fancy." Altoughter and for "fancy." Altogether apart from the satisfaction derived from handling a

satisfaction derived from handling a first-class article, permanent pecuniary success depends upon a proper appreciation of this fact.

If I can give the Canadian fruit-grower a more thorough realisation of the value and importance, not only to himself but to the country at large of larging markets. large, of leaving no stone unturned and sparing no effort to secure the highest standard in every detail of his business, then I hope that the of his business, then I hope that the time and effort spent in making this investigation will result in giving some little impetus to the fruit in-dustry of Canada.—Extract from

A rolling land of rather stiff clay is the best alfalfa soil. Gravel is fairly good if there is a good subsoil.—Prof. C. A. Zavits, O. A. C., Guelph.

How m Many have spend very cows give th fortune for TI

The reason inherit their sire and the mothers, E ay to deve ows is by bu tances allow milking power daughters. better for it. ways recogni lieved the cor ance—and th cause of it.

But there a aking too. dairy industry breeding purp bull cannot has fully grow indeed. Bulls two or three whereas they a or eight. I gr come cross and ous. But if constantly, the accidents guard practice of keep est years beco industry will not the bull sho by his masculing

strong rugged cated by a fu strong square b the impression vitality, which offspring. The Strength should RIGHT T But the bull

battle that leads must be skilful deplorable fact of cows are mil loss. If you d start a cow-test your neighbors. avored localities is cows were av oss of over \$9 ea That made him tice, I can tell ; start such a test now laying the f

that will pay. He his neighbor, just a net gain of over cows. But if he test, he might sti ling the road to man can keep a lishment for cows time. A CROOM Some tests will

formation, however seven-day tests are popular each yes. So. Before these, heavily until she's tion. But when the her feed is chang she is thrown into condition. She is t ducing a heavy flo a few days. But a few days. out the year. Some production is requi only be secured ac

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HOW TO GET STARTED RIGHT IN DAIRYING J. Miller, Durham Co., Ont

The reasons haved upon a fact well index no breeders. The heifer calves their characteristics from the sire and their characteristics from the sire and their characteristics from the sire and the sire

But there are mistakes that we are making too. A general survey of the dairy industry of the country proves that almost all the bulls used for that almost all the bulls used for breeding purposes are immature. A bull camping purpose are immature. A bull camping purpose are immature. A bull camping purpose are his best until he has fully grown as his best until he has fully grown as his best of the has fully grown as his best of the has fully grown as his bull camping his dealers indeed. Bulls are usually keps only; whereas they are at their best at aix or eight. I grant that they may become cross and are always treacherous. But if this is borne in mind constantly, they may be watched and constantly, they may be watched and acciderts guarded against. Until the practice of keeping them during their industry where he was a support of the bull about always be judged by his massulinity. Hay so have a strong rugged constitution cated by a full deep chast and a strong square body. He should give the impression of great strength and vitality, which he can transmit to his offspring. The pretty, weak, overfine male is not desirable anywhere. Strength should be the ruling factor.

RIGHT UP AGAINST IT

BIGHT UP AGAINST IT

But the bull is only part of the battle that leads to success. The cowa must be skilfully selected. It is a deplorable fact that many thousands of cows are milked every year at a loss. If you don't believe it, just start a cow-testing crusade among your neighbors. In one of our most favored localities one man discovered fa cows favored localities one man discovered fa cows favored localities one man discovered fa cows favored localities one man discovered favored localities one man discovered favored localities one man discovered localities one favored localities one favored localities one favored localities one favored favored localities one favored localities of the favore

A CROOKED GAME

A CROOKED GAME

Some tests will not give much information, however. The three and seven-day tests are becoming more unpopular each year—and deservedly popular each year—and deservedly control to the seven and the a few days. But this does not indi-cate her ability as a milker through-out the year. Some test of her yearly production is required and this can only be secured accurately with the

J. Muter, Durnam Co., Ont.

DW much should I pay for a scales and Babcock test. The scales asked the scale of the pay a sked the scale of the pay a sked the scale of the pay asked the scale of the pay as a sked the scale of the pay as a sked the scale of the pay as a sked the scale of the pay as a scale of

to ten it, when you do man it, your task is difficult.

The question of which breed to choose troubes some. Frequently men ask, "Which one is best?" Eat there is no "best" breed. They are all good in their places. The principal thing is to choose one breed and to stay by it. One of our greatest faulte is our mongred stock. There are few herds that do not show a mixture of breeds. Any breeder knows what a sent bunch of eattle will result from a confusion of characters that very a confusion of characters that very conflict. Yet this fact still starces in the face; the country is filled with mixed herds.

filled with mixed herds. Whether our cone be pure-bred or well-bred is of less importance. A herd of well-bred grees after the pay us a pure-bred bull will perfect by a pure-bred bull will pure-bred stock. But it always pays to add a pure-bred heifer at times, as there is a ready sale for good blood.

HOW YOU CAN TELL

After all there is but one way to judge a dairy cow—that is by her performance at the pail. A cow should profession of the pail. A cow should be a record-breaker, according to her ancestry as recorded in the herd books, sometimes, but falls down when she is confronted by a spring scales, as he is confronted by a spring scales, the confronted by a spring scales, and the scale of th

ways a few surprises.

First of all she should be in good condition. If she is not, much valuable food that should be turned into mik will be needed to place her there. This desirable condition of body is shown by a soft, pliable skin, that will saliy smoothly when pinched with the thumb and finger. Her hair should be fine and soft—nover dry or hard. She must have a strong nervous systematically. be fine and soft—never dry or hard. She must have a strong nervous system to enable her to perform the work of turning food into milk. She also must have a very strong constitution and the capacity to eat a great deal of food. She is simply a machine under high pressure and you working under high pressure and you must regard her as such. To possess these qualities she requires a deep these qualities she requires a deep the such a power. She should have a deep wide paunch and should be open ribbed.

Her milk vessols require special

open ribbed.

Her milk vessels require special attention. The udder should be large, square and evenly balanced. The teats should be large and set well apart. The larger and more traited the milk veins the better. The wells should be of good size and well should.

shaped.

These points are by no means an infallible standard, but they indicate fairly well the value of the cow as a milker. Dairying medity reaching such a stage that no supply reaching such a stage that no supply and can succeed in it. He must by ana can large the succeed in the succeeding the

The hardest blow that we could give ovine tuberculosis would be to estab-sh a ventilating system in every stable



"When I have an odd moment, I do a little painting"

Writin I Have an odd moment, I do a little painting.

This is what a progressive farm owner said, and his farm is pointed out by the neighbors as being a prosperous, well-managed farm. This man has discovered his secrets of success, so well expressed by the old adage, "A stitch his secrets of success, so well expressed by the old adage, "A stitch his accordance of the secret has a little paint used to be a successive of the secret of the secret of successive his secret of the secret of t

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Just Milking

E. F. Eaton, Colchester Co., N. S. The man who thoroughly appreciates the importance of proper milk-ing of the dairy cow and will take the necessary precautions is a rarity, even among farmers themselves.

Among hired men they are even more Among hired men they are even more produced 10,536 lbs. of milk, test rare. The dairy cow is a highly developed nervous animal and this point.

Another incident Elustrating must be appreciated. Any little same point was mentioned by thing that irritates her is bound to Edwards. A man paid \$100 for decrease the milk flow and make her untested pure bred cow. Fig. 1

men's Association. A buyer went into the stable of a farmer who did not be-lieve in testing and bought four cows. One the farmer himself said was not One the farmer himself said was not much good as he let her go for \$85 Mer new owner did believe in testing and as a three-year-old that cow classed as no good by her first owner produced 10,336 lbs. of milk, testing 3.7 per cent.

Another incident illustrating the



Fine Products of Sunny Alberta

That the Alberta climate is more favorable to the development of high-producing dear relations of the climate of any other section of Canada, is the firm conviction of and an arrangement of the conviction of th

to that degree a less valuable animal, owner tested her and later sold her I have had many unpleasant experi- for \$500. All of which goes to prove I have had many unpleasant experi-ences with hired men before I finally got them impressed with the idea that milking was an important job and

milking was an important job and had to be done right.

One man that I had recently, an Old Country fellow, had very long finger nails. I assured him that it would be necessary to trim his nails before he milked my cows, else he would have their teats so sore that no one could milk them. He thought no milked seemed nervous every that he milked seemed nervous every that he milked seemed nervous every time he went around them and when time he went around them and when I examined their teats they had been cut open by the milker's nails. This trimming of the nails seems a small point, but it is a very important one and one that I believe nine men out of 10 milkers neglect.

MILK COWS DRY
Another point that I insist on is
that the cows be milked out dry
every milking. This does not mean
until the milk ceases to come readily as practically every milker who comes unto my farm seems to think, but that they be milked until the last drop is extracted. There is nothing that will dry a cow quicker than leaving a portion of the milk in her udder. We cannot afford to do it anyway for the

cannot anord to do it anyway for the last milk is the richest.

A bottle of vascline is always kept in the stable. This I use on sore places whenever they appear. The vascline keeps the scab soft and at the same time acts as an antiseptic.

Of course the general difficulty with hired men, and I believe this is more true of Old Country men than of Canadians, is to keep them from abusing the cows. The best thing to do with a man who wants to use the stool on the cow every time she lifts a foot is to fire him, even if we do ot know where the next man is coming from

It Pays to Test

Even as we humans may be entertaining angels unawares among our friends, so a farmer may equally unwittingly have a jewel in his herd. This fact was illus-trated by Dr. Edwards in an in-cident that he told of the last Convention of the Eastern Ontario Dairythat it pays to test.

Your paper is a welcome visitor to our home, and we would not like to be without it.—W. A. Milne, North-umberland Co., Ont.

Are You Going West this Spring? If so, exceptional opportunities are now being offered by the **Grand Trunk Railway System** in connection with Homeseekers and Settlers excursions.

The Settlers excursions apply from

The Settler's excursions apply from stations in Ontario to points in Alberta and Saskatchewan, Apris 15th, 22nd, and 29th, at low rates.

Homeseekers' round trip tickets are issued at very low rates from stations in Canada to points in Manitoba, Saskatchewan and Alberta, Each Tuesday until October 28th inclusive. via Chiesaro and St. Paul and will achieve the control of the cont via Chieago and St. Paul, and will also be on sale on certain (Tuesdays) during above period via Sarnia and Northern Navigation Company, and are good returning two manths from date of incompany. of issue.

Through coaches and Pullman Tour ist Sleeping cars are operated every Tuesday in connection with Settlers Tuesday in connection with Settiers and Homeseckers excursions leaving Toronto at 11.00 p.m., and running through to Winnipeg via Chicago and St. Paul without change. Reservations in Tourist cars may be secured at a nominal charge on application to Grand Trunk Agents.

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C. E. Horning, District Passenger Agent, Union Station, Toronto, On-

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Vol. XXX

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er profits. Tru calling fully as tion as are the ping and feeding cuss this great 400 delegates, walk in life, bu ers from the Canada, met at In Farm and D general aims o now a perman called "The Na on Marketing ar were dealt with

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FARMAND DAIR RURAL HOME

Each Week

Nol. XXXII

FOR WEEK ENDING APRIL 24, 1913

No. 17

Only \$1.00 a Year

WILL COOPERATION SOLVE THE FARMERS' MARKETING PROBLEM?

This question, greater even than that of Crop Production, discussed by over 400 Delegates to a great Convention at Chicago. Many Cooperative Societies represented. An unlooked for Complication introduced by Dr. Spillman.

make two blades of grass grow where only one grew before" is no longer the ore aim and object of the farmer of tc-day. The successful marketing of the second blade is a much more difficult problem than its production, and one which the farmers of America so far have not been able to solve. Every season of large crops is followed by a fall and winter, in which prices for all lines of farm produce are so low that the actual returns to the farmer often are no greater than he would get were his ercp small. In fact, his returns from large crops are frequently smaller than they are from

short crops. Last year the farmers of the United States received \$150, 000,000 less for their abundant crop than they netted on the shorter crops of 1911. Canadian dairymen can remember when a short cheese season has been a most profitable one to them. The wheat grower of the West will recall short crop years in which he lifted a good slice off his mortgage, and good crop years in which he hardly made ends meet. Instances of this kind might be multiplied indefinitely.

And why is it that greater crops do not go hand in hand with greater profits. Truly here is a problem calling fully as urgently for solution as are the problems of ercpping and feeding! It was to discuss this great question that over 400 delegates, representing every walk in life, but principally farmers from the United States and Canada, met at Chicago recently. In Farm and Dairy last week the general aims of this conference, now a permanent organization, called "The National Conference on Marketing and Farm Credits," were dealt with. Here we will deal only with the discussions on marketing that took

place at the conference. WHY A PROBLEM AT ALL

The marketing problems that came up for discussion are a necessary outgrowth of cur present system of society. There were no marketing problems when people were scattered in numerous small villages throughout the land. Then farmer and consumer dealt directly with each other, and middlemen, except to a very limited extent, were not necessary. Now the goods that the artisan once produced in his cottage are manufactured in great factories wherein are employed hundreds, and in many cases thousands, of work-

Population has concentrated in these manufacturing centres and a wide territory must be drawn

on to feed their people. The farmer of to-day finds is inconvenient and impossible to deal directly with the consumer. To carry his produce to its ultimate market there has arisen a great army of middlemen, such as the railway companies, merchants both wholesale and retail, cold storage men and "dealers." So important have these handlers of our produce become that they absorb anywhere from 40 to 90 per cent of the price that the consumer pays. Hence, how to bring consumer and producer closer together and do away to a large extent with the expensive



What Would We Do Without the Disc Harrow These Days? What Would We Do Without the Disc Harrow I hese Days?

We sometimes hear that there are so many machines nowadays that no farmer
oculd possibly afford to have all of them of the Days that the control of the County of the Count

middleman system, was the great problem up for discussion at the conference.

The farmer delegates present urged cooperation among producers for the shipping and marketing of farm produce. Delegates representing consumers urged ecoperation among their people for the distribution of farm produce from house to house. When these two forms of organization can be brought together the majority of the delegates believed that the problem of the high cost of living will be largely solved.

TRUE COOPERATION RECOMMENDED

Men with wide experience in cooperative marketing were not lacking at this conference. In fact nearly every cooperative organization of importance on the continent had a representative present. Of the several dozen speakers all were

agreed that the first essential to success is that the society be truly cooperative. The join stock cempany is not a cooperative company, and this system of organization has been responsible for the failure of many a farmers' marketing concern. In a joint stock company the directors are usually the largest shareholders, and there is a tendency to make large dividends the prime object; for instance, a man owning \$1,000 worth of stock and doing \$100 worth of business with the company, would derive just 10 times as much benefit as would the man cwning \$100 worth of stock and doing \$1,000 worth of business, although the latter is doing more to make the society successful.

The form of cooperative society that will give the best success, as the experiences of delegates showed, is where the capital stock has a fixed dividend, say six or seven per cent, and the pro-

fits of the business are divided among the members in proportion to the amount of produce that they ship through the association. Several delegates told of cooperative societies that are successfully operated without any capital stock whatever, the members simply drawing up promisary notes. These notes constitute the working capital of the organization. And now for some of the results attained through cooperation.

TRANSPORTATION PROBLEM SOLVED

The Corn Belt Meat Producers' Association, represented at the convention by Mr. Rex Beresford, of Ames, Iowa, was organized wholly and solely to secure favorable freight rates from the railway companies. Under the old conditions, when each man shipped his own produce, rates were high enough to absorb almost all the profit. Working together in a cocperative organization the producers were able to get their legislature to pass bills forcing the railroads to give them lower rates.

W. H. Tomhave teld of the good work that is being done by cooperative live stock associations in

Missouri. All of the shippers in a community get together in a shipping organization in order that they may ship in car load lots, thus securing better rates on the railway and more consideration from commission men. A manager is appointed, who gets a commission of six to seven cents a cwt., and it is his duty to arrange for shipments and the weighing of each individual farmer's offering. Mr. Tomhave cited the society of Litchfield, Minn., as a typical society. The farmers' organization is now the only shipper of live stock from that station, and farmers have been known to bring their cattle 20 miles in order to participate in the advantages that have been secured by the association. The first failure of such an association is still to be reported.

(Continued on page 7)

Breeding Horses for Profit *

John Gardhouse, York Co., Ont.

The profit from horse breeding depends very largely on the kind of horse bred, the feeding and care of the colt, our facilities for producing cheap feed and our ability to get work from the mare and from the colt until it is of an age of greatest value for the market.

The horse for any of us to breed is the horse that we like best, can produce the cheapest and when ready for market will bring the highest price. This is my ideal of a profitable horse. If the farmer is making a success with light horses it would be advisable for him to follow on with light horses, but there are many reasons why, for the average farmer, the heavy draft horse is to be preferred. There is a good demand for this class of horse. The brood mare is capable of doing more work than the lighter horse, and the colts may be broken early and will earn their keep until they reach a marketable age. The average farmer has not the time nor experience to raise light horses such as will bring the best prices. It takes a lot of time to break and train the light horse, but when we teach the heavy colt farm work, we are breaking him at the same time to the very same kind of work that he will be doing after we have sold him.

THREE COLTS IN TWO YEARS

On the average 100-acre farm I would like to see at least three colts raised every two years. There should be at least one team of good brood mares. These mares will do a great deal of work. They should be well bred, of good conformation and free from hereditary diseases. We should study the'r weak and strong points and select sires accordingly, having the sire strong in those points where the mares are weak. It costs no more to raise a No. I animal than a scrub, and the No. I animal comes from attention to the points I have just mentioned. If planting trees in front of a house, we would select good trees. It is the same in horse breeding. Scraggy mares produce scraggy colts.

I believe the breeder will get better results from working his brood mares right along, provided

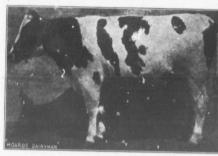
they are in a good man's hands. No man should be allowed to handle brood mares at work who will abuse them.

A few years ago I figured the cost of a colt at two and one-half years old at \$85. Feed is more expensive now, land and pasture a little higher, but there should still be a good profit left as the colt will be worth \$150 to \$500 at four or five years of age. A few days ago I sold a gelding, four years old, for \$425.

Here is one of my own experiences in horse breeding. I bought an imported mare for \$310. Her

first foal was dropped at three years old. I sold it for \$800. Her next foal I sold for \$800. She was bred again and aborted a pair of twin foals. We got her in foal again, and her foal, which I still have, is worth at least \$400 or \$500. In all this mare had five foals when six years old and is in foal again. Here is another case: I was short of horses to work my farm and bought a common grade mare for \$195. I sold her foal at six months old for \$100 and now have another foal worth \$100. She has worked all the time and paid her way.

I believe it would be advisable to breed more mares to foal in the fall. They would then do more work in the summer when most needed and when the colts are weared in the spring they can be turned out on the green grass, which is the best feed imaginable for them, and they would



Dees Body Fat Effect the Fat Test of Milk?

This heifer, calving in fat condition, was entered in Advanced Registry with an average test of 51 per cent of fat in her milk for seven days. Her average test for the year was 35 per cent fat.

not suffer the usual set-back. The greatest difficulty in the way of fall foals is the difficulty of breeding the mare at that season of the year.

Spraying is a disagreeable piece of work at any time, but much can be done to make the work more pleasant, and preven injury to the hands or eyes from the spray mixture. Have a drip guard just below the nozzle. A circular piece of leather with a hole in the centre, makes a good one, or a simple piece of small rope tied around the pipe and allowed to hang down



Does it Pay to have Cows Freshen in Good Condition?

This helfer, the same one as seen in the top illustration, averaged only 145 per cent fat in her seven-day test at second freshening, the test being conducted the same length of time after calving as was her previous test. The difference was that the helfer was in this condition, as seen in this illustration. It pays to feed that the helfer was in this condition, as seen in this illustration. It pays to feed

four or five inches, will answer the purpose. Have a shut-off tap that does not leak and make sure that all the joints are tight. Put on a pair of cheap leather gloves, to protect the hands, and cover the horses with a pair of canvas blankets. With reasonable care a man should be able to spray all day with very little annoyance from the corrosive action of the spray mixture.—P. C. Dunn, Hastings Co., Out.

How We Grew a Bumper Crop of Corn A. E. Hulet, Oxford Co., Ont.

We try to follow, as near as possible, a fouryear rotation, consisting of corn oats or barley, meadow and pasture. In 1911 our rotation brought us to an 11 acre field of clover sod for our corn crop. During the preceding winter we covered part of this field with manure, spread from the sleigh. After we were done seeding our grain crop, about the first of May, we finished covering

the field with manure, putting it on with the spreader at the rate of about 15 large loads to 5 the acre.

It was about the middle of May before we started to plow for corn. We plowed with two horses and a single furrow plow, using a skimmer. It was slow work, but we did a good job. We kept the land well rolled and disced behind the plow By the time we had fin ished plowing we had disced the land twice. lopping half, and rolled it three times. then gave the furrows an extra discing to pro-

vent the sods turning up when we crossed the field with the disc. After cross discing we rolled again, gave the field one stroke of the spring-tooth cultivator, dragged and rolled it again. It was then in good shape for planting.

We used a planter, putting the seed in drills at the rate of 10 quarts of good seed to the acre. Owing to many interruptions from rain and other work it was on the ninth of June before we finished planting. The weather conditions were ideal, and in four days' time one could see the rows of corn across the field. It came up very thick, and from then until nearly harvesting time everybody that saw the field considered it far too thick to get many ears. But we kept the two-horse corn cultivator busy, and when sile filling time came we had a clean field and enough extra well eared corn to fill two silos, one about 13 x 28 and the other 14 x 30, and enough left to refill one of them. It was an eye-opener to us as to the necessary conditions for success fully growing corn.

We had a level lying field of clay loam, extra well tile-drained, a clover sod well manured, well ployed and extra well worked before seeding, we kept the field clean while growing, and we concluded that we must have had good seed, although we had not taken the precaution of testing it.

In conclusion, we have learned that failure of the corn crop is because of one or more of the following reasons: Lack of drainage, lack of tertility or plant food and, last, but not least, lack of cultivation, especially before planting.

The man who really should be encouraged at our fairs is the breeder. It is on him that the future wellbeing of the cattle interests of the country depends. As our fairs are at present run, however, there is little to encourage the Canadian breeder to attend. The prices are mostly gobbled up by importers. There are lots of small fellows around the country who would be glad to exhibit their stock at our fairs if classes were made that would make it worth their while to fit their stock for the show.—D. A. MoFarlane, Hantingdon Co., Que.

W. E. J.

April 2

WHEN Ont should be gi lum. He m taught in t success. Ev cationists ha Several agr school use, 1 turalists of teachers hav teach the su has been in a of this being teachers are side of the st order to get taught throu selection of s forth

With the c work a numbe organized by of Agriculture form of Towns were not follow ship convenier having the pr located school terested in the movement depe given by the to the differen or five miles, among the tea corn, both gos varieties and a taken along, ar on the importa phasizing the crop. The mar then be demon score card and

In this way to able information their samples for They also receive ing.—a very in as the best resul er is unable to



The children who gorn shows, but the which this crowd ha

*Summary of an address at the Ottawa Winter Fair,

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HOW ESSEX COUNTY CHILDREN STUDY AGRICULTURE IN SCHOOL

W. E. J. Edwards, B.S.A., Dist. Representative of Ont., Dept. of Agriculture, Essex Co., Ont.

A description in word and picture of the School Corn Shows of Essex Co., Ont.—0! how School Children have been induced to Select, Grow and Exhibit High Class Seed Corn—An ever Growing Phase of Educational Work.

HEN Dr. Edgerton Ryerson laid the foundation of cur Public School System in Ontario he recognized that agriculture should be given a prominent place in the curriculum. He made some attempt to have the subject taught in the schools, but with very indifferent success. Ever since that time, our leading educationists have endeavored to develop the subject. Several agricultural books, designed for public school use, have been written by leading agriculturalists of the province, and the public school teachers have endeavored at different times to teach the subject from these books. The result has been in almost every case a failure, the reason of this being that the large percentage of school teachers are not acquainted with the practical side of the subject. It is now recognized that in order to get the best results, agriculture must be taught through practical lessons, such as the selection of seed, the growing of crops and so

With the object of introducing this practical work a number of Rural School Corn Shows were organized by the Essex Branch of the Department of Agriculture in the fall of 1909. These took the form of Township shows, although municipal lines were not followed closely; schools in another township convenient to where the show was to be held having the privilege of exhibiting. A centrally located school was selected, having a teacher interested in the work if possible; the success of the movement depends very much upon the assistance given by the teachers. A visit was then made to the different schools within a radius of four or five miles, to arouse an interest in the work among the teachers and pupils. A few ears of corn, both good and inferior, of the standard varieties and a number of corn score cards were taken along, and a short talk given to the pupils on the importance and beauties of rural life, emphasizing the need of improvement in the corn crop. The many points of an ear of corn would then be demonstrated with the assistance of a score card and a few ears.

In this way the boys and girls gained considerable information and were in a position to select their samples for the show more intelligently. They also received some information on corn judging, a very important phase of corn growing, as the best results cannot be obtained if the grower is unable to select his best ears for planting.

An effort was made to induce as many of the boys and girls as possible to exhibit, this being accom-

plished best by getting the teacher to encourage the pupils. Prize-lists, containing classes for the standard varieties of corn, were left at the different schools for each pupil. The prize-lists contain classes for White Dent and White Cap Yellew Dent, another for Yellow Dent, and usually one class for the Flints. Prizes for the best single ears are also offered. Five ears comprise an entry, and any school boy or girl under 16 years of age may enter each class.

When this work was inaugurated the larger part of the prize money was usually given by the Ontaric Corn Growers'



Important Factors in the Success of School Fairs A good measure of the success that has attended the School Corn Shows of Essex Co. Out. must be attributed to the school teachers of the school teachers between the school teachers ally into the work. A few of the maintainties ally into the work. A few of the school teachers all schools are school to the school teachers and the school teachers are school to the school teachers and the school teachers are school to the school teachers are school teachers.

Association, this organization giving \$5 to each School Show held. As the interest deepened and

the work grew, most of the trustees of the different schools exhibiting, contributed generously to increase the prizes offered. With very few exceptions, the shows held during the past two years have been financed very largely by the schools the trustees of each # \$3 to \$5. Part of part of this goes les local classes for the particular school giving it. From eight to 14 prizes are given in each class, and a large number of exhibitors are encouraged by receiving a prize, small as it may be. The remainder is offered as prizes for

championship classes, open to the district. This gives all the pupils from sections where the more approved methods are not adopted, a chance to win in their local classes, while the defects of their corn are brought to their notice when shown in the championship classes.

The Corn Judging Contests open to teams of two from each school are one of the very best features of these shows. The teams are picked by



Children are not the only ones who Study Corn Judging in School."

The rural school as an agricultural education medium may be made to reach more than the children of a section. In our illustration may be seen a class of young may be seen a class of comparing the control of the control of the children have left school they will be found in these advanced classes.

their teachers, often with the assistance of a good local farmer. Each team has the same sample of ears to place, the prizes being given according to placing and reasons. Ribbons are given in the contest and occasionally money prizes also.

During the time the corn, which is placed in racks around the school room, is being judged, a programme is furnished by the pupils from the different schools; short talks are also given by others present. If the afternoon is fine, outdoor sports are sometimes indulged in. After the exhibits are all judged, the judge takes a number of the exhibits to the platform and gives the reasons for a few of the placings, as we endeavor to make the show of as much educational value as possible.

We have held a large number of these School Shows during the past three years, as many as 13 being conducted during one fall and winter. The prizes offered are often very good. At one of them 13 schools gave \$5 each, the township \$10 and the town where the show was held \$15, making in all \$90. Over 300 entries of corn were on the shelves, sufficient to fill a fair-sized hall. Afternoon and evening meetings were held in the town hall close by. Programmes of music and addresses on agriculture were given at both meetings, the large hall being full at each. Fully 1,000 people were in attendance. The interest shown and the financial support given to this show was certainly very gratifying and encouraging. In every case we have also had the hearty support of the inspector, which is a great help in the

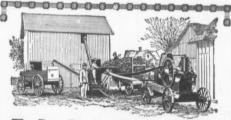
Realizing that more lasting results would be obtained if the pupils were to grow the corn they exhibited, we sent out samples of good White Cap Yellow Dent, sufficient to plant two square rods, to over 1,200 school pupils in the spring of 1912. This not only gave the boys and girls the benefit of growing and caring for the plot, but the parents were also benefitted in a great many cases by getting a start with first-class seed. Special prizes were given for this corn, grown by the pupils, at the shows held last fall.

Special interest centres in the Junior Department at the Annual Ontario Corn Exhibition. This department is open to boys and girls under 16 years of age; prizes being given for all the leading varieties of Dents and Flints, a special

(Continued on page 12)



Ample Evidence to the Popularity of the School Corn Show children who grow and select the corn naturally take most interes in their show, but the older people of the committy make good seconds. The fair at the this crowd has gathered is drawn from the choic sections. Each of these school fairs in the adjoining article.



The Best Bargain You Ever Made

SUPPOSE you bought an engine that did practically all of your hardest work for you-sawing, pump-

can said of your hardest work for you—sawing, pumping, grinding, etc. — and that paid for itself in a short time. Would you call that a good bargain?

He would you call that a good bargain?

It will come to earn its way by working steadily year after year until you make. "My 1 H C engine is the best bargain lever made."

I H C Oil and Gas Engines

are thoroughly dependable, and unusually durable. The fine-grained, grey cast-iron cylinders and pistons are worked together to a perfect of the ground piston rings insure maximum power from the explosite the properties of the p

International Harvester Company of Canada, Ltd BRANCH HOUSES

At Brandon, Calgary, Edmonton, Estevan, Hamilton, Lethbridge, London, Mo N. Battleford, Ottawa, Quebec, Regina, Saskatson, St. John, Winnipeg, Y.



MAPLE LEAF CANADIAN LINSEED OIL CAKE BRAND



CATTLE

The question of feed is as much an economic one as any other one involving profit or loss. You can-not decide the question off hand. It is a question of scientific feeding. Every modern and up-to-date farmer knows the importance of chemical values with reference to soil, manure and feed.

You could almost starve a cow to death on a purely heat-forming ration, or reduce your milk output to a minimum on a bone or muscle building

THE ADVANTAGES OF "MAPLE LEAF" CAKE

It is absolutely pure and relatively the cheapest It is absolutely pure and relatively the cheapest, healthest and most concentrated form of feed obtainable. It mixes well with all kinds of feed, including bran, shorts or corn meal. Cheap coarse fodder containing little or on nutriment can be converted into good feed by a judicious mixture of "Maple Leaf" Oil Cake Meal. Feed it to your cattle, horses, pigs, live stock of all kinds, and reduce your feed bill.

The Canada Linseed Oil Mills

MONTREAL and TORONTO

HOW TO DETECT TUBERCULOSIS IN A DAIRY HERD

is causing more loss to dairy farmers than all other diseases of Tarmers than all other diseases of the dairy cow combined. Many breed-ers of dairy cattle are afraid to test their hards for fear they have the dread disease. They think that did the disease exist it might be necessary the disease exist it might be necessary to slaughter a good part of the herd. But such drastic measures are not ne-cessary. The Bang system provides a convenient method of building a healthy herd from the progeny of diseased animals.

A few years ago a large part of the dairy herd of the University of Illinois was found to be tuberculous. Illinois was found to be tuberculous. The Bang system was followed. Calves were removed from the infected quarters as soon as dropped. Milk from the diseased cows was rendered fit for use and safe through pasteurisation. In two years 23 cows in quarantine gave an average return of 19 healthy calves and milk worth \$4,436.67. Surely this is better than slaughtering the condemned animals; particularly where the cows are pure-bred and valuable. From the fulness of his experience with the disease, C. C. Hay-den, of the University of Illinois, gives the following points on the detection of the disease in the herd:

SYMPTOMS OF THE DISEASE "SYMPTOMS OF THE DISEASE
"There is a common belief that a
cow which has the disease will
cough. This may or may not be true,
because it depends on whether or not
the throat or lungs are affected.
There are other diseases which affect There are other diseases which affect these organs and cause cattle to cough; consequently, a cough may or may not indicate tuberculosis. Unfortunately, the disease rarely appears on the outside of the body, and because of this fact it is difficult or impossible to disease. possible to discover its presence by physical examination until it is well advanced, when the animal goes down rapidly in condition and yields to no treatment.

"Sometimes it appears as an en-largement of the glands of the throat, argement of the glands of the throat, causing coughing and difficulty in breathing, or as a hard lump in, or enlargements of, parts of the udder. However, other causes may also be responsible for the latter trouble. No farmer should permit a cow which has died or been killed to be buried without an examination of the lungs and the glands between the lungs and on intestines, unless death was caus ed by some contagious disease which there is danger of spreading. Frequently such an examination would quency such an examination would reveal the presence of the disease in a herd where it was not suspected. The tuberculin test is practically the only means by which it can be discovered during its early stages.

EFFECT ON ORGANS
appearance of tuberculous The appearance of tuberculous organs is very characteristic, so that the disease is easily recognized after it has once been pointed out in it different forms. It would be a fine thing if every farmer could readily recognize it in slaughtered animals. Hard lumps or cavities in the lungs, Hard lumps or cavities in the lungs, containing pus, enlarged glands containing pus or having a 'corn meal' and the liver, knots or bunches on the walls of the lung cavity or intestinal cavity, should be looked upon with much suspicion and considered tuber-culture. culous unless they are shown to be

'As has been previously "As has been previously stated, tuberculosis cannot be detected easily in its earlier stage by a physical or outward examination; in fact, this is impossible in the majority of cases. If a cow grows thin (pines away), has a persistent cough, or swollen glands of the neck, she should be considered suspicious. However, these symptoms usually appear after the disease

UBERCULOSIS, it is safe to say, is well advanced and the cow has done great damage by infecting other cat-tle. For this reason these symptoms tie. For this reason these symptoms are of no value except to warn the owner, after it is too late, that his herd is diseased. One reliable method of detecting tuberculosis when it should be detected is the tuberculin HOW TEST WORKS

"In brief, this consists in determining the normal temperature at least four (preferably more) times at equal four (preferably more) times at equal intervals between five o'clock in the morning and eight o'clock in the morning and eight o'clock in the evening of a given day. About eight o'clock in the evening a certain amount of tuberculin, varying with the size of the animal, is injected be neath the skin. On the following day the temperature is taken every two or two and one-half hours. If the temperature rises and subsides gradually, giving what is called a typical reaction curre, with the highest temperature rices and subsides a giving what is called a typical reac-tion curve, with the highest tempera-ture two or more degrees above that of the previous day, the cow is con-sidered tuberculous. There are many things which may affect the results



Firm Friends

This is Mr. Frank Williams, a young Englishman, working on the farm of Mr. 7

H. Inman, Oxford Co., Ont. He certainly can make friends. He may be here see with two of his farm friends.

of the test, and therefore it should not be applied by persons who have not been properly instructed in its

TEST DOES NOT INJURE CATTLE

TEST DOES NOT INJUSE CATLE
"Some persons feat that the use of
tuberculin will give cattle tuberculoise. It cannot, because the germs
have been killed and then rymoved. It
is possible that, in case the animal
injected is diseased, it may cause the
disease to become more active, but
disease to become more active, but
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healthy cow; in many cases the milk or a healthy cow; in many cases the milk from herds under test has been supplied to children and adults as usual, and in no case has it been definitely shown to cause any trouble. If a cow reacts, the fever produced may affect the quality of the milk, and it would be best to exclude the milk of such animals during and after the reac-

Canadian National Horse Show, Toronto, April 29 to May 3

On account of the Canadian Horse Show at Toronto the Grand Trunk Railway System will sell return tick-ets single fare for the round trip, with 50c added for admission to the

Show.

Tickets good going April 29th and
30th, May 1st, 2nd and 3rd, returning
Monday, May 5th, 1913. Secure tickets and all information from any Grand Trunk Agent.

April 24

WILL COO

So many stitutions we ference, that was called t the grain gr elevators and pletely beate ists; the cor now stand legislature of the farmers' farmers of V at home 47 o who had opp zation

Albert E. Chicage Milk Chicage Milk had waged a the milk mer for the first to allow the on their own sent time fou ing into Chic of the farme Geo. McKerro stated that p perty in Wise operative fire One cooperat state did a bi year, while fi creamery comp condition. Te condition. speakers show orking succes of the produce agricultural ac CAN THE FA some of the

were talking. done for the economics in colleges, whose organize farms proposed. So proposed. contribute \$1 in thus be fright cooperative ide failed to bring tests from farm and it was sig successful coope presented amor associations org farmers themse ciation is that

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Growers, who, ago, have raise of rice from \$2. Another farme ed by farmers County Farmer growers was for members and a first year they \$444,665. Lag aggregated \$4,4

bership numbere \$75,195, with a The organ a stock company lowed to hold n No profits have all available mor tablish their fer firm basis. Wh firm basis good running ord to get their ferti cost. It is also the profits accor done through the dends on capital to a reasonable fi

CONSUMERS O As man after place at the confe great things that prise had done neighbors, enthu Farmers began to they were getting 913.

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WILL COOPERATION SOLVE THE FARMERS' MARKETING PROBELM ?

(Continued from page 3)

So many successful cooperative institutions were represented at the contension and the second of the United States Department of
was called to hear their experiences. Agriculture, and for simple promises of
From Wisconsin it was reported that a damper on their enthusiasm. Dr.
the grain growers ewing their own Spillman argued that while cooperadesirates and healther their enthusiasm. Dr.
spillman argued that while cooperadesirates and healther their enthusiasm. stitutions were represented at the con-ference, that an extra night session was called to hear their experiences. From Wisconsin it was reported that the grain growers coming their own grain elevators and holding their own grain was a service words and the service of the con-cept of the service was the con-cept of the service was the service when the service was the service wa elevators and holding their own grain unjit the market needs it, have com-pletely beaten the elevator monepol-ists; the corporation-owned elevators now stand empty. When the state legislature opposed bills favorable to the farmers' interests the organized farmers of Wisconsin elected to stay at home 47 out of 52 of the legislators who had opposed the farmers' organi-zation.

Albert E. Jack told of how the Albert E. Jack told of how the Chicage Milk Producers' Association had waged a successful fight against the milk merchants, compelling them for the first time in all their history to allow the farmers to fix the price on their own products. At the present time four-fifths of the milk consent time four-fifths of the milk consent time four-fifths of the milk consent time four-fifths of the farmers' organization. Mr. Geo. McKerrow, also of Wisconsin, stated that practically all farm property in Wisconsin is insured in cooperative fire insurance companies. perty in Wisconsin is insured in co-operative fire insurance companies. One cooperative creamery in that state did a business of \$259,000 last year, while fire years ago the same creamery company was in a bankrupt condition. Testimony from still other speakers showed how cooperation was working successfully to the advantage of the producer in almost in of the producer in almost every line of agricultural activity.

ONN THE PARMEN HELP HIMBER?
Some of the schemes proposed surveed of benevolent despotism. This was
particularly the case when college men
were talking. Everything was to be
done fer the farmer. Bureaus of
economics in connection with state
colleges, whose duty it would be to
organize farmers into societies were
proprised. Some college men were
even opposed to asking the farmer to
contribute \$1 in cash for fear he would
thus be frightened away from the
cooperative idea. This stand never
failed to bring forth indignant pre-CAN THE FARMER HELP HIMSELF? cooperative idea. This stand never failed to bring forth indignant pre-tests from farmer cooperators present, and it was significant that the most successful cooperative associations re-presented among the delegates were associations organized by and for the farmers themselves. Such an association is that of the Southern Rice

ciation is that of the Southern Rice Growers, who, starting three years ago, have raised the wholesale price of rice from \$2.25 a barrel to \$4.50. Another farmers' crganization form-ed by farmers for farmers, was the County Farmers' Exchange of New Jersey. This organization of truck Jersey. This organization of truck growers was formed in 1908 with 300 members and a capital of \$7,000. The first year they did a business of \$444,665. Last year their business aggregated \$4,420,748. Their mem-bership numbered 1,250, their capital \$75,195, with a reserve fund of \$18, The organization is at present 296. The organization is at present a stock company. No member is allowed to hold more than one share. No profits have been declared so far, all available money being used to establish their fertilizer factory on a firm basis. When this factory is in good running order the growers expect to get their fertilizer at much reduced out. It is cost. It is also proposed to divide the profits according to the business done through the exchange, the dividends on capital stock being limited to a reasonable figure.

CONSUMERS ONLY WILL PROFIT CONSUMERS ONLY WILL PROFIT
As man after man stood up in his
place at the conference and told of the
great things that cooperative enterprise had done for himself and his
neighbors, enthusiasm ran high.
Farmers began to believe that at last
they were getting an insight into the Spliman argued that while cooperation might benefit the producer in its early stages, in the lcng run its benefits would redound entirely to the advantage of the consumer. He illustrated his contention as follows:

trated his contention as follows:
Texas is admirably adapted to ruck
farming. Suppose that all of the
farming. Suppose that are truck growers of Texas to truck growers of Texas to the
sacciety, got the best of rates from
the railroads, and eliminated most of
the middlemen. For a time the truck
growers of Texas would be most prosperous. But there is an unlimited
supply of land in Texas. Other farmers soeing their presenerity would beers soeing their presenerity would besupply of land in Texas. Other farm-ers seeing their presperity would be-come truck growers also. The supply of produce would at once become so great that prices would drop to a level where growers would receive only the where growers would receive only the old-time wages and a small interest on their investment. The same result might be expected, said Dr. Spill-man, in all other lines of farm pro-ducts. It is the consumer who must ultimately benefit, not the producer.

A FARMERS' TRUST And then came Dr. Spillman's solu-And then came Dr. Spillman's solu-tion of the marketing problem, the most complex and elaborate of all the plans proposed at the conference. It was nothing more or less than this, that the federal government should establish marketing bureaus with al-most unlimited process. establish marketing bureaus with almost unlimited powers, to study crop and market conditions and advise farmers as to just how much of each crop they should sow in order to avoid over production, and consequent de-creases in price. In other words, that farmers, added and abetted by

creases in price. In other words, that farmers, added and abetted by the government, should establish a giant combine to hold down production and uphold prices, the very methods for which the majority of us so heartily condemn the "Trusta."

When Dr. Spillman st down one could have heard a pin drop, so staggared were the delegates by this new gord were the delegates by this new problem, because the delegates by the service of the problem, because the service of the s people who feel the pangs of hunger. that will not you from people who feel the pangs of hunger. the pangs of hunger boar labor with hand

people who feel the pangs of hunger. Are we going to combine to reduce production and increase prices at the expense of the poorer classes of the cities? We have not got to the bottom of this problem yet." Lack of time prevented the discussive consideration of the problem of the problem of the problem of marketing would be solved at his one gathering. The question is too big and too new. The conference proved, however, that the property of the proved in the provential provider of the proved in the provider of the provide their calling as they never have been before. It shows that they are coming to realize that they are coming to realize that they have greater problems to solve than most people have realized who are connected with agriculture, and that they have resolutely set their faces for the accomplishment of this subject.—F. E. E.

I have my poultry keeping down to a system that involves a minimum amount of labor. I feed my chickens once a week in summer.—J. W. Olark, Brant Co., Ont.



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The Call of The North

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te for FREE catalogue sheat and most complete E



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give the coves the greatest possible comfort
and freedows the greatest possible comfort
and recolous the greatest possible comfort
and recolous the greatest possible composition
to the cattle-stand or besching.

The first and or besching the standard or besching
as weight on her neck. Tied in
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allments.

MAIL COUPON TO-DAY for free illus trated Stall Book that tells all the facts about BT Equipment. Also if you will fill in coupon we'll send you, free, our book "How to Build a Dairy Barn." Address

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How many cows have you f..... Name P.O. Prov.....

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Every bag left in the ground is a dollar lost. Every bagful chopped by the plow is a dollar lost. If it costs \$5.00 too much an acre to harvest them it is \$5.00 per acre lost.

To handle the whole crop and handle it cheaply is going to make a big difference in the profits.



The Canadian Potato Machinery Co. Limited, Galt, Ontario As a Potato Grower I would like to

	e coh's oh surr	cook.
Name		
Address		

will entitle you to a free copy of the book "Money in Potatoes." Send it in to-day. There is money in it for you.

The "big crop" coupon

************************************ HORTICULTURE r, saaaaaaaaaaaaaaaaaaaaaaa 4.

Apples for Quebec

Apples for Quebec

Prof. J. G. Buntino, Macdonald

Prof. J. G. Buntino, Macdonald

There is a great demand, that has
not begun to be filled, for McIntosh
and Fameuse apples from November
till January, and it is the high-class
dessert apples such as these that when
well grown bring the top prices. In
these two varieties we have hardy,
strong-growing trees, particularly strong-growing trees, particularly adapted to Quebec, early maturity in tree, that is the trees come into protree, that is the trees come into pro-fitable bearing at from five to seven years—high quality fruit of high color and varieties well known to the trade and of established reputation, and the

and or established reputation, and the demand is not nearly supplied. If it is desired to lengthen the season by planting other varieties, the following for 'early fruit in the order named are good: Transparent, Duchess and Wealthy. For later varieties the following are good: Milwaukee, Bethel and Scott Winter.

No matter how many varieties you plant let one-half to three-quarters of them be McIntosh and Fameuse. Specialize in these two varieties and Quebec will soon become as famous for Quebec will soon become as ramous for its McIntosh and Fameuse as the Annapolis Valley is for its Graven-stein, or the Hood River Valley for its Jonathan and Spitzenburg.— Journal of Agriculture.

Fruits for the North

Fruits for the North
We have very severe weather in this
north country, and as I propose starting
fruit growing, would like to know varieties and species of fruits that would
New Ont.
New Ontario.
Those are very few varieties of tree
Those are very few varieties of tree

New Ont.

New Ontario.

There are very few varieties of tree
fruit that could be recommended for
fruit that could be recommended for
Northern Ontario, and these would
require the most favorable conditions
of soil and location that could be
found. I would not recommend planting fruit trees on the flat and level
country that surrounds Cochrane,
or would I recommend planting fruit
trees on the heavy clay soils of the
trees on the heavy clay soils of the trees on the heavy clay soils of the north ccuntry. The ideal combina-tion of conditions would be light soil, at least light enough to be very thoroughly drained. This should possess oughly drained. This should presess at least slight elevation above the aurrounding country and should slope north, northeast or east rather than south. Under any other conditions than those just described, I should hesitate to recommend the planting of any tree fruit, as chances for success would be very slight indeed.

The iron clad fruits such as currants and zoosebervise could be grown

rants and gooseberries could be grown on almost any well drained soil and the only requirement with regard to situation would be to see the course in low areas, which would likely be frosty. I do not know how successfully raspberries could be grown, but should expect that with the abundant snowfall of the north, it would not be difficult to bring raspberries through difficult to bring raspherries through the most severe winters, by bending down the canes in the fall. Straw-berries would grow successfully in any well drained soil, but care should be taken also to avoid frosty situations. The best varieties of small fruits are probably the following: (1) Red Currants—Cherry, Fay, Parfection.

(2) Black Currants — Champion, Naples, Victoria. (3) Gooseberries-Pearl, Downing, Red Jacket. , (4) Raspberries — Golden Queen,

Herbert. (5) Strawberries-Parson's Beauty,

In tree fruits the hardiest varieties so far as I know are the following (Continued on page 10)

A FARMER'S GARDEN

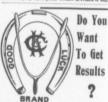
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Long White
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April 2 ***** POL

***** Expert Ad A. S. Berges

It is generally the yolk of the yolk of the through the abdomen of the transfer of the transfe quently too e the proper at may also can begin to show hen from 36 peck at each and rush to cubator when

glass door. Whatever t followed, avoi and bulky for often. For th often. For the start them on bread soaked if Give this food and also give to Feed five or si first few week

EVEN CHI After the ch to four days to four days grain in cut st scratch, thus which is essent using dusty or litter, as this "mouldy" grow "mouldy" grow is the cause of in young chicks The method o is simple. Aff give them chic a chick food

Cracked wh Cracked cor Pin head or Feed this "ch

per day, with o milk and also or posed as follows Bran Cornmeal

Oatmeal ... Middlings ... Give them mi wheat or sma If no milk is kind of animal for each as blood mea

hay be fed in a consist of about mash. If no gre it should be suppl grains, tender le If the chicks ar can run around of feed less carefully THE LABOR

After they get to six weeks old, ing. This is do ing. This is do partment hopper, cessible to the chic

This saves a gr and hence is esp where chickens ar umbers or are qu the buildings. Separate the mal Separate the main as soon as the main as soon as the main domineer over the will do better and also do better. Avances so far, your fairly well matured

CLEANLY PR

Cleanliness must be ing chicks. All the water dishes, and

ARDEN

24, 1913

COST

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Baby Chic and Grons ood quality LLY nto, Ont

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SEEDS

its exclusion from the shell. Consequently too early feeding may prevent the proper absorption of this yolk and may also cause indigestion. Chicks begin to show signs of being hungry been from 36 to 48 hours old. They pe cubator when they hear a tap at the glass door.

glass door.

Whatever the method of feeding followed, avoid feeding soft, sloppy and bulky foods, and feed little and often. For the first feed it is well to start them on hard boiled exgs and bread soaked in milk and pressed dry. Give this food for the first few days, and also give them skim milk to drink. Feed five or six times per day for the first few weeks.

scratch, thus encouraging exercise which is essential to success. Avoid which is essential to success. Avoid using dusty or mouldy straw for the litter, as this is the cause of the "mouldy" growths in chickens and is the cause often of heavy mortality

Is the cause often of heavy mortality in young chicks.

The method of feeding young chicks is simple. After the first few days give them chick feed as Purina, or a chick food made of the follow-

ing:
Cracked wheat ... 3 parts.
Cracked corn ... 3 parts.
Pin head oatmeal . 3 parts.
Pin head oatmeal . 3 parts.
Pin head for ... 1 part.
Ped this "chick food" three times
per day, with one feed of bread and
milk and also one of moist mash com-

15 lbs. 10 lbs-Ontineal 10 ibs.
Ontineal 10 lbs.
Middlings 10 lbs.
Give them milk to drink. Small
wheat or small corn may take
the place of chick food as chicks get

older. In o milk is available some other in o milk is available some other kind of animal food must be provided when the control of the contr

feed less carefully and less frequently.

After they get to be about four te six weeks old, start hopper feeding. This done by putting the grain and dry mash into a two compartment hopper, and having it accessible to the chickens at all times. This area great deal of labor, and hence is especially convenient where there are a read deal of labor, and hence is especially convenient where there are the second production of the buildings.

the buildings.

Separate the males from the females Separate the males from the femnles as soon as the males commence to domineer over the females, as they will do better and your femans will also do better. Avoiding all disturbances so far, your pulled a should be fairly well matured at six months of your

CLEANLY PRECAUTIONS Cleaniness must be followed in raising chicks. All the pens, the food and water dishes, and everything used

POULTRY YARD

Expert Advice in Chicken Feeds

A. S. Bergey, Macdonald College, Que.

It is generally believed that the chick devices its nourisment from the yolk of the egg which is absorbed through the umblical cord into the broaden of the chick, just previous to also provided the continue through the proper also provided the provided the

ful source of disease.

Keep on the watch for lice and mites at all times, and if necessary dust them with some insect powder.

Capons on the Farm

By Edward Dreier

The cost of the caponising outfit is about five dollars—this outfit is simple and as good as any of which I know. The control of the Wyandottes got loose while I of the Wyandottes got loose while I of the Wyandottes got loose while I was removing one testicle and ever-ed an artery, dying immediately. The other was alright for about three days and then drooped and I had to kill it. A state of the R. I. R. fowls died as soon as the control of the R. I. R. fowls died as soon as the cuts were among best in made. The other person is though the cuts were among less if we days. The 25 Barred Rocks lived and some of them grew to weigh 17 of these we sold 15 at 50 centre pound. The other pound 15 at 50 centre pound of the pound in the cuts were away from home by sight Collies of the cuts of

us over \$100.

I shall be very glad to help anyone who wishes to try caponising. I will give them all the help I can as to methods—feeding, etc. Send your aduring to Farm and Dairy and they will reach me sure.

Let us not worry too much about what the future will bring forth. Let us do well the work we are doing to-day, and the future will take care of itself.

STOP! HERE'S A DYER FENCE!" strong, durable fance
one that holds back the
strongest, animal, and lasts for
a formation of the strongest animal, and lasts for
Tiger four hast it, guaranteed,
Tiger for Cut this guid, Lawe fence
Tiger for Cut this guid, Lawe fence
and me your April sheving from a Figure
and obligate me to be.

Name and Address.
Name and Address.
Did a system of the strongest for the stal to me NOW may mean many a \$1 saving to you

Baby Chicks

Order your baby chicks now from our splendid laying strain of SINGLE COMB WHITE LEG-HORNS

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Poded Lock" Feeds Soratoh feed and Soratoh feed and grit, beef scrap, ground bone, orster shell, and all Poultry supplies, Prices as low or lower than others can meet. Write CRAMPSEY & KELLY, Deverceart Rd., Tereste, Oat

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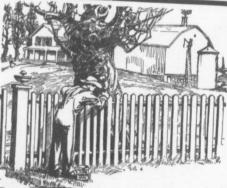
S.C.R.I. RED EGGS, from good laying strain, \$1.00 per 15. Shipment guaran-teed.—Jas. C. Barrens, Indian River, Ont.

BLUE ANDALUSIANS AND ANCONAS— Eggs from the heaviest laying strains at \$1.50 per 15. W. E. Pakenham, Nor-wood, Ont.

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Fruits For The North

(Continued from page 8) (1) Apples — Yellow Transparent, Duchess, Dudley, McIntosh Red. (2) Crab Apples—Florence, Isham, Martha

(2) Urab Appress Foreign, season, Martha.

(3) Plums—(These are native sorts as the European will not endure the climate.) Aitkin, Cheney, Wolf, Hawk Eye, Stoddard.

I shall be glad to receive from any of your readers in the north country, their testimony concerning these varieties or any others which have been successful. It will also be of value to know those which have been tried and found lacking in the necessary hardiness—Pref. J. W. Crow, O.A.C., Guelph, Ont.

Pruning at Planting Time

J. W. Hollinshead, New Westminster District, B. C.

How shall we prune at planting time, is a subject discussed in a recent issue of Farm and Dairy. From my own experience I have found that it is far better to plan the root grafts instead of trees. If comparison is instead of trees. If comparison is worth anything one cannot afferd to plant the trees, because a root graft placed where you want the tree to grow, at the end of five years will have a larger top tree and more fruit

than will trees.

"Learn to unlearn what you have learned amiss." This is what a tree has to do when planted in the field. It has not been forced to take on unhas not been forced to take on un-natural shape by being shaded in the nursery so that the only thrifty limb is the top one. This kind of a tree is unfit for the orchard and in order to secure a good growth the top must be cut off. Six inches from the ground is plenty high enough to form the top. is plenty high enough to form the top. Sc why not set the graft directly in the field. It will not need pruning for five years, except perhaps to preror ave years, except perhaps to provent a fork forming that might eventually split down through the tree. This style of tree, if all vegetation is kept away from it will have an average annual growth of abcut one inch in diameter

ON LOW HEADS

By having a low-set tree it is easy to locate and destroy caterpillars and other posts. One can save at least half the time in spraying and about half of the spray material. One would also be able to utilize the greater part also be able to utilize the greater part of the heat that is so necessary to give one good rich fruit. The fruit can be thinned if thought necessary with much less dropping, much less damage to it when it does drop and less damage to the trees by the wind.

Then too it would reduce the cost of picking about one-half.

picking about one-half.

Let us case to think of what father
or neighbors did in their orchards. We
should bunt for the evidence, and or
precedent. Let tradition go where the
evidence is not visible. Our watchword should be "Where is the evidence?" not the precedent. The person who is looking for precedent never
improves. he is not progressive. The improves, he is not progressive. The supreme courts of the world make most of their decisions on precedent, but seldom refer to evidence or

The County Council of Waterloo The County Council of Waterloo ccunty have shown their appreciation of the work being done by F. C. Hart, B. S. A., District Representative of the Ontario Department of Agricul-ture in that county, by deciding to expend the sum of \$765 for the purcapeal the sum of \$700 for the purchasing of a motor car for Mr. Hart.
Their actions will be productive of benefit both to the county and to Mr.
Hart. A regrettable feature is that the majoriy of the rural representatives of the council voted against the expenditure

Renew your subscription NOW.

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And Healed The Wound With **But Three Applications**

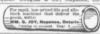
You could not have a better proof of the value of Egyptian Liniment than is given by the experience of Mr. O. A. Holden, of Montreal, as given in this

"My pony received a deep cut across the back of her leg below the hock joint. After trying several remedies, without any beneficial results, I was induced to any beneficial results, I was induced to try Douglas' Egyptian Infinient. Proud' flesh had formed the size of a hickory nut. After three applications it was en-tirely healed, which I consider marvellous as a small artery had been cut, which spurted blood every time the wound was disturbed.

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"I cheerfully recommend Egyptian Limi ment to all horsemen."
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question longed t north-ea lowing r they we grades. were sin with pur

"How a high privere all and we each cow cost to post t books and was buyin rest brought a because I Besides th production the test as

J. H. Gris It is son tion is abso with alfalfa true as al

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little clove Inoculation much and for the firs whether or are already advisable. Where soil is used in p inocu'ator, i slightly dam ly. Do not sun or the

stroyed harrow imme The same in immediate be had.—Ex

Longevi Prof. C. H

Experiment S vestigations a fitable longev as follows: "Probably cattle are rej udder trouble

vancing years marked event. served that a record when t although as a rather earlier. marked decline tinues to breed

While it is judge the future a cow from her is reasonably as ness of her mill

"A dairy cow two-year-old ma duce about 70 year-old, around a four-year-old. duce under the mature

"The richness practically cons year, except th milking period th decline with adv

FLESH

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in his ent seros eut across hock joint. es, without induced to nent. Proud" a hickory it was enmarvellous cut, which wound was

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Calf Feed icen

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vith sel-Cotton or albud milk.

DE MARK kinson

why His Cows Sold Well
"How did your sale go?" This
question, asked of a farmer who belonged to a dairy test association in
north-eastern Iowa, elicited the following reply: "Fine, thirty-two cows
averaged over \$100 per head." "No,
they weren't pure-beds, they were
grades. A neighbor of mine and I
were simply cleaning up our herds
with the expectation of stocking up
with pure-breds later on."
"How did they come to being supwith pure-breds later on.

"How did they come to bring such
a high price? Well, you see the cows
were all in the dairy test association
and we knew how much butter-fat
each cow produced and how much it each cow produced and how much it cost to produce it. When a cow was brought out for sale, the auctioneer wad the record from the tester's books and the buyer knew what he was buying. The price paid tells the was buying. It was salisfied that my cows brought at the salisfied that my cows rest. I am satisfied that my cows brought at least \$20 more per cow because I had them in the association. Besides this, the increased butter-fat production per cow paid the cost of the test association many times over."

Why His Cows Sold Well

Culture for Alfalfa

J. H. Grisdale, Director Experiment-al Farms, Ottawa.

It is sometimes said that inocula-It is sometimes said that inocula-tion is absolutely necessary to success with alfal. This is not necessarily true as alfalfa can be sown with a little clover and so give it a start, under the succession of the succession of the much and where one is sowing alfalfa for the first time and does not know whether or not the necessary bacteria are already in the soil, inoculation is advisable.

Where soil from an old alfalfa field Where soil from an old alfalfa field is used in preference to the laboratory inoculator, it should be dug up when slightly damp and spread immediated by Do not let this soil dry in the sun or the bacteria in it will be destroyed. Spread it when damp and stroyed. harrow immediately.

The same applies to the inoculated seed. Sow when damp and harrow it in immediately if good results are to be had.—Extract from address.

Longevity of Dairy Cows

Prof. C. H. Eckles, of the Missouri Experiment Station sums up their in-vestigations along the line of the pro-fitable longevity of dairy cows in part as follows:

as follows:

"Probably the majority of dairy cattle are rejected from the hord on account of failure to breed, or from udder trouble before the effect of advancing years can be observed to any marked event. It is a fact often observed that a now may make her best. marked event. It is a fact often observed that a cow may make her best record when ten or own years old, although as a rule abe at the set of t

While it is not entirely safe to judge the future milk production of a cow from her two-year-old record, it is reasonably safe to judge the richness of her milk.

ness of her milk.

"A dairy cow on the average as a
two-year-old may be expected to produce about 70 per cent.; as a threeyear-old, around 90 per cent, and as
a four-year-old, about 90 per cent of
milk and butter-fat she will produce under the same transpant when duce under the same treatment when mature.

"The richness of the milk remains practically constant from year to year, except that after the third milking period there is a slow gradual decline with advancing years.

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followed, puts wooden barns tremendously high in cost to-day. I have a new and better way that avoids repairs too."

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So or 6 wood shingles on a barn roof. So much labor is saved, "These shingles are made in 100-year my shingle works out as costing you less than a cedar shingle is will not corocle like iron, it or steel, and the same thing applies to your barn walls. My big in addition, I galvanize each shingle works of the same thing applies to your barn walls. My big within the coverous a roof, tineeds of. The same thing applies to your barn walls. My big in addition, I galvanize each shingle sheets of corrugated iron beat out boards. A single sheet no paint, no repairs, and no attended is like nailing a dozen boards at a time. The saved labor tion. It is got for 100 years, and no attended to the margin of cost. You save money. Use my wights just one-fourth of cedar, metal shingle, and my corrugated iron for harn walls. It sheets of corrugated iron beat out boards. A single sheet is like nailing a dozen boards at a time. The saved labor lasts, repairs free, and safe for years to come."

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The Feeders' Corner

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

ressessessessessesses Millet for Dairy Cows

Is millet good roughage for dairy cows? How much should be given at a feed? What other grains should be fed with it for cows milking 25 lbs. a day? Would other roughage be advisable?—D. F. A., Hastings Co., Ont.

The millets, which are annual grasses, consist of many races and varieties mixed in hopeless confusion Hungarian grass is the one most com-mon with us. In order to produce hay fine quality the seed should be fair-thick as when thinly sown millet stems are coarse and weedlike and make hay of low quality. All forms of millet grass designed for hay should be cut just as the plant is going into blos-som to avoid the formation of hard seeds which are indigestible by horses and cattle. Millet forage is much relished by dairy cows, being somewhat superior to flint corn fodder. In chemical analysis it is intermediate in quality between timothy hay and red

Millet hay of good quality is a good roughage of itself but is improved by the addition of clover which brings up the protein content of the roughage. and of corn ensilage cr roots which improves the palatability.

improves the palatability.

As a grain ration to be fed with
millet to cows giving 25 lbs. of milk
a day we would suggest a mixture of
corn two parts, oatmeal two parts
and bran one part by weight. Feed
seven pounds of this mixture and two
and one-half pounds of cotton seed
meal. This will give a fairly well
halanced ratio. ba'anced ration

cur subscriber is planning to seed millet this coming summer we would suggest that corn is a preferable crop, in that it will yield more roughage per acre and when placed in a silo is a more palatable feed. Red clover or alfalfa are both preferable to millet.

Potatoes Raw or Steamed

An experiment to test the feeding raw or steamed potatoes as value of raw or steamed polatoes as supplementary feed with a grain ration, has been carried on by Robert Withycombe at the Eastern Oregon Experiment Station with interesting

The hogs in the experiment were divided into eight lots, and records of the different feed ration given each and the proportionate gain made were kept carefully. Each hog in lots 1 and 2 ate an average of 170.18 lbs. of barley and 509.53 lbs. of raw pota-toes, making a gain in weight of 60.70 bs. Those in lots 3 and 4 ate 110.30 lbs. barley and 663.75 lbs. steamed potatoes and made a gain of 70.60 lbs., while those in lots 5 and 6 ate 188.60 lbs. barley and 564.80 lbs. steamed potatoes and made a gain of 78.10 lbs. Lots 7 and 8 ate 300.10 lbs. 78.10 lbs. Lots 7 and 8 ate 300.10 lbs. barley without potatoes and made a gain of 69.5 lbs. WHAT BARLEY IS WORTH

The last two lots, fed barley alone, were used as a check on the others to show more definitely the proportion ate value of the potatoes. At the present market value of \$.07 a pound

present market value of \$.07 a pound live weight, the hogs fed barley made a \$4.87 gain, which makes the barley feeding value \$1.02 to the hundred. Lots 1 and 2, fed barley and raw potatoes at the rate of three pounds of potatoes to one pound of barley, made a \$4.25 gain, which gives the raw potatoes a feeding value of \$.29 a cwt. Lots 3 and 4, receiving six times as much steamed potatoes as barley made a \$4.94 gain, giving the steamed potatoes a feeding value of

times as much steamed potatoes as barley, made a \$5.47 gain, making the feeding value of the potatoes \$.42

It is noticeable that those fed six times as much potatoes as grain did not make quite the gain made by the others, but it required 85.25 lbs. less barley to make this gain, so the difference in feeding value is accounted

It is also noteworthy that the steamat its also noteworthy that the steam-ed potatoes are worth \$.13 more to the hundred than raw for feeding, as shown in the comparison of the gains of animals fed the three to one ra-

Far Ahead of Oats

By W. C. Palmer. One ton of alfalfa hav has the same feeding value as 60 bushels of oats. feeding value as 60 bushels of oats. Alfalfa can be expected to average at least twe tons an acre. This is the equivalent of 120 bushels of oats. There is no land that will average 120 falfa requires less work and less ex pense to handle than a grain crop And the alfalfa will improve the soil And the alfalfa will improve the soul while the oat crop will reduce its productive power. To get this value from alfalfa it must be fed on the farm. It needs to be kept in mind that the alfalfa is a roughage

The securing of a stand of alfalfa requires that the conditions necessary to the alfalfa be supplied. These are organic matter in soil, best supplied by manure; good deep compact seed bed, best furnished when land is man ured; plowed deep for corn and the corn clean cultivated. Alfalfa needs bacteria. If these are not in the soil bacteria. If these are not in the soil introduce them by getting soil from a field growing alfalfa successfully. Alfalfa likes sunshine, so plant it alone A nurse crop hurts it. Sow it about June 1st. The different strains of A nurse crop to June 1st. The different strains of June 1st. The different strains of alfalfa differ much in hardiness. Select seed adapted to the locality in the begrown. Start with which it is to be grown. Start with a small piece first. There is no crop which is a small piece first. There is no crop that will preduce so much food an acre and it is also one of the surest not the surest crop that can be grown after it is well established

How Essex County Children Study Agriculture in School (Continued from Page 5)

class being given for corn grown by the pupils themselves. So large were the entries in these classe at the Til Show in 1912, that several of the classes were subdivided and it will be necessary to subdivide them again for the next show. These entries are increasing more rapidly than they are in any other class at the Show, 410 samples of corn being on exhibition in the Junior Department at the Annual Corn Show held in Windsor the past February. Prizes were also given February Prizes were also given here for a Judging Contest and for an essay on "How to Grow Corn." The school that made the highest cash win-ning at this exhibition received a valuable bronze shield to be won three times by the same school before be-coming its permanent property.

The quality of the corn the junior classes was equal, and in not a few cases superior, to that shown in the senior classes. A large number of boys and girls are becoming interested in the work, many of the boys continuing to exhibit in the senior classes after they reach the age

Pastures will soon be looking good to the dairy farmer. It is just as well to curb our impatience a bit and have good pastures all summer as to speil them now before the grass gots a good start.

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Will Your Seed Grow?

J. F. Metcalf, B.S.A., Manitoulin Island, Ont.

Many of our farmers make the mis-take of thinking that there should be a certain set amount of all kinds of grain and clover seeds to be sown per grain and clover seed of all kinds of grain and clover seed of all kinds of acre, not considering the beswen per acre, not considering the beswen per acre, not considering the best of grain and the summer of the

uii grow at ali.

Last year the red clover did not ripen well as a rule and the consequence is that there is a large proportion of shrunken seed in most of the samples being offered for sale by the samples being offered for sale by the farmers. Then, too, a great deal of the grain—especially oats—was ex-posed to the bad weather for ome time last fall and that grain vill cer-tainly be damaged for seed. In buys ing corn for seed, too, it is sometimes very disamonisting to have only ing corn for secu, too, it is sometimes very disappointing to have only a small proportion of the seed grow and the patch have to be seeded over again at a time when it may be diffiagain at a time when it may be diffi-cult to secure seed or when it is too late for the crop to have a chance to ripen in the fall. The remedy for all of this trouble is to buy your seed early, test it to find out what propor-tion will grow and sow enough extra tion will grow and sow enough extra seed to make up for what will not

TESTING A SIMPLE OPERATION

TESTING A SIMPLE OPERATION
Testing seed for germination is after all a comparatively simple matter and any farmer can do it for himself in his own home. The tests may be made in the kitchen if the temperature does not fall too lost a might. Best results will be obtained if the temperature can be kept before 50 degrees at might and 70 degrees during the day. The length of time required for germination is dependant on several factors such as moisture, temperature, vitality, etc., six to 10 oh several factors such as moisture, temperature, vitality, etc., six to 10 days usually being sufficient. Small seeds such as clover seed may

Small seeds such as clover seed may be tested by sing a plate and laying on it a fresh blotter. Then count out as y 100 seeds where the come in your sample and place them to the blotter, spreading them out as we have a possible. Next place another fresh be possible. Next place another fresh and the rower the seeds, moisten well and the rower the seeds, moisten well and the rower has considered and the contract of the contract

WILL THE OATS GROW?

In testing large seeds such as oats or corn the first consideration—as with the smaller seeds—should be to get an accurate sample and some trouble should be taken in getting the sample from different places in the trouble should be taken in getting the sample from different places in the bags or bin so that it will be representative of the whole lot. Have a box made say 10 x 20 inches and about three inches deep and put in about three inches deep and put in about two inches of sand or sawdust—preferably sand. Rule lines each way two inches alpart with a margin of one inche all around. By planting a seed inches apart with a margin of one inche all around. By planting a seed about half an inch deep at each place where the lines cross you will have 50 weeks planted. Keep in a facel. We will have seed splanted. Keep in a facel with a sprinkler or you shaking the water off a whitewash or other brush) every day and count or other brush) every day and count by shaking the water on a whitewash or other brush) every day and count the number of seeds that grow before two weeks' time. Any that appear after that will be too weak to amount the number of the seeds to be seen a list to too the seeds to amount the number of the seeds to be seed to see the seeds to be seed to be seen that the seeds to be seed to be seed to be seen that the seeds to be seen that the seeds to be seen that the seeds to be seed to be seen that the seeds to be seed to be seen that the seeds the seeds the seeds that the seeds that the seeds that the seeds the after that will be too weak to amount to much. A little trouble taken with this work now may easily make a difference of a quarter of the crop next fall.

Why not treat those seed oats with formalin and avoid smut?

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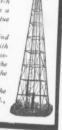


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FARM AND DAIRY PETERBORO, ONT.

IMPORTANCE OF EARLY SEEDING

We often wonder if the importance of early seeding of the grain ercp is sufficiently appreciated by farmers generally. The most of us have an idea that the earlier we get in the grain crop the better is the yield. But how many of us have been sufficiently impressed with the importance of early seeding to make an extra effort to get our land plowed in the fall, the manure spread in the winter, and the implements all ready to rush on to the land as soon as it is ready to work? The facts brought out in the following experiments conducted at Macdonald College and the Ontario Agricultural College may give some of us a greater appreciation of seeding.

At Macdonald College experiments were conducted in the seeding of oats points. at different dates, the earliest plots being seeded April 26th and the latest,

about one-third, and was freer from late seeding, and from the early our subscribers. thirty-three and three-quarter pounds seedings showed a gradual decline in yield from earliest to latest.

Even more convincing are the results of a series of experiments conducted at the Ontario Agricultural College over a period of five years. These seedings were made at intervals of one week. The earliest seeding of oats resulted in a yield of 75.20 bushels an acre, weighing 33.9 pounds bushel. The second seeding, made a week later, showed a slightly higher yield, probably due to the soil being more thoroughly worked, but from then on the yield steadily declined until at the sixth sowing only 37.02 bushels were harvested and the weight a bushel was 24.16 pounds. In a similar series of experiments in barley a decline from 46.17 bushels an acre at the first seeding to 18.43 bushels at the sixth was noted, and in spring wheat the decline was from 21.89 bushels to 6.73 bushels an acre. all cases the highest yield of straw was from the earlier seedings. The earlier seedings were also freer from

Surely we have here a convincing argument for early seeding. don't wish, however, to minimize the importance of proper working of the scil. It is a combination of the two, a well worked soil and early seeding, that gives the best results; hence the importance of fall plowing and of wide working implements for the ac- it celeration of spring work-

A PERSONAL CHAT

"Enclosed please find renewal to "Farm and Dairy. You are doing

"much to help along agricultural "interests, especially dairying. "do not agree with your opinions "in all things, but your general "views pertaining to general "branches of farming are sound "when viewed in a broad-minded "manner."-R. B. McL., Huron

This is a type of letter that gives the editors of Farm and Dairy a sense of satisfaction. It shows us that Farm and Dairy is going to the kind of people that we wish to reach, men who are willing to judge a case on its merits and not from preconceived prejudices or from partisan affiliations. This reader takes us in the way in which we wish to be taken. He does the importance of rushing the spring not unquestionably accept all of our Canadian Northern Railway shared opinions, but he does not quarrel with to the extent of \$6,500,000 in a genus because we cannot agree on all

FARM AND DAIRY May 27th. This difference of thirty-talented and preminent public man. many that the Canadian Northern has two days in seeding resulted in an After the visit Carlyle was asked how average difference of just two weeks he enjoyed himself. "Well," he said, in the maturing of the grain. The "I never did appreciate talking with earliest seeding yielded about seventy an echo." Unfortunately the two bushels an acre and the latest only men had agreed on every subject fifty bushels. The earlier seeding brought up for discussion, and hence showed a larger yielding of straw by there was no discussion. Did we and our readers agree on every point the rust than the latest seeding. The work of getting our Farm and Dairy grain weighed only twenty-nine might get as monotonous to the editpounds per measured bushel from the ors as the reading of it would be to

Conditions are changing rapidly a bushel. The results of intermediate now-a-days. Opinions on many subjects that seem to be sound one day may need to be revised the next Hence it is impossible for us all to agree even did we wish to. In all things, however, we endeavor to uphold what we consider to be in the best interests of the farmer and as long as we all exercise the same tolerance that is expressed in R. B.McL.'s letter, the relationship between the Dairy will be a pleasant one.

SPEAKIN' OUT IN MEETIN'"

A few years ago William McKenzie and Donald Mann were railway contractors with neither fame nor fortune. Today, Sir William and Sir Donald number their wealth in millions and there are few estimates made of who are the multi-millionaires of Canada that do not credit Sir William with first place among our wealthy men. Sir Donald does not come far behind him. Their interests extend from one end of Canada to the other, and to foreign countries as Among their possessions are the Canadian Northern Railway, which will soon be Transcontinental, power lines, street railway franchises and immense land holdings. How has all of this wealth come into the hands of these men in such a short time? Certaintly they did not create

The truth is a good portion of it has been getten from the people of Canada through the influence these two gentlemen have been able to exert on the powers that be, both at Ottawa and at provincial capitals. It is gratifying to note that the Canadian people are at last awakened to the fact that their hard earned money is helping to make millionaires of such men as Sir William McKenzie and Sir Donald Mann without the public receiving adequate compensation in return. It is also gratifying to note the way in which many influential Canadian newspapers are "speakin' out in meetin' " and asking why these men can go to our politicians and secure millions in subsidies and in guarantees of bonds without undertaking to repay the advances made or offering to give the public an interest in cure that extra price for quality cars their enterprises.

It is not many months since the from the federal funds made by the themselves may combine into coop ra-A story is told of a visit made by Dominion government to Canadian tive egg circles and make arra :

received from the federal government. The majority of Canadian provinces have treated them most liberally in gifts either of land or of money.

April 24, 1913.

Ontario has given them some 2.000,000 acres of land, and now comes the rumor, often denied but persistently recurring, that the Canadian Northern is demanding a further gift of some \$30,000,000 from the federal government to help them in completing their transcontinental line. If this rumor is true the Canadian people should protest most vigorousiy against the continuance of such exploitation of the public. If we have to practically build these railway lines why can't we own or control them when they are finished, instead of passing them into the hands of a few already overrich beneficiaries of government extravagance? At the very least we should receive a stock interest in such companies to the amount editors and readers of Farm and of the assistance we give them. It is time for the people to demand their

QUALITY PRICE FOR EGGS

"Pay us for quality and we will give it to you," has long been the reply of many farmer poultrymen when ac cused of not taking care of their eggs Produce dealers, who have always paid much the same price for eggs irrespective of quality, have now tak en us at cur own word. At a largely attended meeting of produce men from Ontario and Quebec, held at Montreal recently, the following resolution was unanimously adopted:

"That the egg dealers here as "sembled unanimously approve of "the proposal to change on June "1st, 1913, from the present system "of buying eggs to a system of buy-"ing on a basis of quality only; and "further, we disapprove of paying "for any rotten eggs in our receipts

"after that date." If the egg dealers sconscientiously live up to the terms of this resolution to which they have agreed, a great change will be worked in the poultry industry. Methods of marketing must be radically changed to comply with the new regulations, but with the stimulus of a better price for a better product farmers will be quicker to change their methods than they have been in the past, when a better product was desired but not paid for

The question comes up-How is a busy farmers to market his eggs a couple of times a week during the lot weather? Poultry at best is only a side line on Canadian farms, and on few farms are the egg receipts la ge enough to justify the farmer in leaving his regular farm work to attend to their marketing. How is he to seand to avoid marketing rotten e ga that are not to be paid for at all?

There are two methods in which perfectly fresh eggs may be sent to eral handcut of about \$30,000,000 market. In the first place, farmers the great writer, Carlyle, to a very railways. This gift was only one of ments with one of their number to

A skilled with small fit into more chunks.

The skiller small words minds than The simple er the certain stood by the READER.

Advertising is tricked silks of liter as much our DRESS at th The buying ments to find

TO SELL. The advert gets the MC cartridges MA DO NOT HI You must PRINTED SE that you are ance in PE SHIP Cut out cle

inserted to the TALK. Only, I is costlier that in price down line; talk is n expensive com Sketch in you her. Then 'SAYING IT" writing. After word and every ed without om What Ri is all that RE Cultivate br "Savon Franca er, but more STAND "FREN

Newton's expla boy's terse and up must come whole thing in INDEFINITE space. It is not tive. The copy t a tendency to stead of BUYE impression bound to conceingoods are HIGH REALITY—other en, are just as the prices are L thinking that yo your statements. The reader me

OUT by the copy est because it SINGLE EYE... Small space is ONE-FLAKE SI is not enough of Space is a com all. It is not a co passengers on may realize that twelve-inch shing and fence for a s but hey are GO make out what ti the two-foot lette bulletin board on at them before th dodge it. And at nearly so much a of Jones' dinky d

TAKE YOUR HABOVE, SIR! TI WILL APPLY T TISING IN FARM "A"Paper Farm

(15)

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n e gs

thern has vernment provinces perally in

AD. TALK LXXVI

A skilled layer of mosaics works with small fragments of stone—they fit into more places than the LARGER chunks

chunks,
The skilled advertiser works with
small words—they fit into MORE
minds than BIG phrases
The simpler the language the greater the certainty that it will be understood by the LEAST INTELLIGENT
READER.

Advertising must be simple. When it is tricked out with the jewelry and silks of literary expression, it looks as much out of place as A BALL DRESS at the BREAKFAST TABLE.

The buying public is only interests ad in FACTS. People read advertisements to find out WHAT YOU HAVE TO SELL.

The advertiser who can fire THE MOST FACTS in the shortest time, gets the MOST RETURNS. Blank cartridges MAKE NOISE BUT THEY

cartridges MAKE NOISE BUT THEY
DO NOT HIT—blank talk, however
clever, is only wasted space.
You must not tolerate in your
PRINTED SELLING TALK anything
that you are not willing to countenance in PERSONAL SALESMANSHIP.

SHIP.

Out out clever phrases if they are inserted to the sarrifice of clear explanation—the property of the sarrifice of clear explanation—the property of the sarrifice of the

word and every line that can be eras-ed without omitting an important de-tail. What REMAINS in the END is all that REALLY COUNTED in is all that REAL
the BEGINNING.

Cultivate brevity and simplicity.
"Savon Francais" may LOOK smart-

Cultivate brevity and simplicity.

"Savon Francais" may LOOK smarter, but more people will UNDERSTAND "FRENCH SOAD." Sir Isaac.
Newton's explanation of gravitation
covers SIX PAGES, out the schoolboy's terse and homely "What goes
up must come down" clinches the
up must come down" clinches the
in SIX WORDS.

INDETHITE TALK WASTES
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to have in Canada.

"I work my corn land until it is so
mellow and fin thinking that you have exaggerated your statements.

your statements.

The reader must be SEARCHED
OUT by the copy. Big space is cheapest because it DOESN'T WASTE A
SINGLE EYE..

SINGLE EYE...

Small space is expensive. Like a Small space is over the space is one space is not enough of it to lay. It is not enough of it to lay. Space is a comparative matter after space is a comparative much law. It is not a case of HOW MUCH at it is not a case of HOW MUCH is used, as HOW IT IS USED. The lawed, as HOW IT IS USED. The space is not a space in the space is not in the in t the two-foot letters of Brown's big bulletin board on top of the hill leap bulletin board on top of the hill leap at them before they have a chance to dodge it. And at that it doesn't cost

douge it. And at that it doesn't cost nearly so much as the SUM TOTAL of Jones' dinky display.

TAKE YOUR HAT OFF TO THE ABOVE, SIR! THE MOST OF IT WILL APPLY TO YOUR ADVERTISING IN FARM AND DAIRY. "A"Paper Farmers Swear By"

attend to the marketing of the eggs of all; or they may arrange to take turn about in carrying the eggs to the shipping point. A second method and one that, like the first, has already been successfully tried out in Canada, is for cheese factory or creamery men to conduct an egg trade as a side line. It is comparatively easy for milk or cream drawers to collect eggs along their reutes, and these eggs could be shipped regularly as guaranteed fresh eggs and command the highest price. Local conditions will determine which of these two methods is most advisable. If the dealers live up to their agreement to pay higher prices for good quality eggs, we will do well to adopt one method or the other in every community where hens are kept.

According to statements recently submitted to the Interstate Commerce Commission of the United States, express companies have suffered a loss of

Testimony of approximately 25 per cent of their small Express package business, which amounts to about six per cent of the gross revenues of the companies, through the operations of the Parcels Post. At the same time the government expects to make a profit on the carrying of parcels once they get the system well organized. When the express companies of the United States admit that the new Parcels Post regulations are cutting seriously into their business on small parcels, they are offering us the strongest possible evidence that Parcels Post must be working to the ad-

in getting a good crop." So said one of the best corn growers in Eastern Ontario in the course of a conversation recently. We believe that did other farmers do likewise there would be less poor corn to harvest next fall. We all realize the importance of thoroughly working land intended for grain or grass. know that we will not get another opportunity at that seil until the sod is again plowed. We look at corn differently. We feel that we will have plenty of opportunity to get that land in shape even after the crop is up and growing. We could not make a greater mistake. The experience of all good corn growers proves the value, in fact the necessity, of thoroughly working the soil before the corn is planted. Let us not place too much dependence on later cultivation at the expense of the initial working of the

TE LAVAL CREAM SEPARATORS

No Excuse for any Cow Owner Being Without One

There is no reason why any cow owner who sells cream or makes butter should be without a cream separator and there is no excuse why he should not have the best separator.

Any creameryman or experienced dairyman will tell you that



a good cream separator will give you a great deal more and a great deal better butter than you can make with any gravity setting system, and equally, of course, more and better cream, if you are selling cream.

The DE LAVAL is acknowledged by creamerymen and the best posted dairymen 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 will not only 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.

A little investigation will prove to you that the truth of the matter is that you really can't afford to make cream or butter without the use of the DE LAVAL cream separator.

The nearest De Laval local agent will be glad to demonstrate this to your own satisfaction, or you may write to us direct.

DE LAVAL DAIRY SUPPLY CO., LIMITED PETERBORO

WINNIPEG VANCOUVER



STYLE BOOK FOR 1913 OF "Quality Line"

VEHICLES AND HARNESS

NINTEENTH YEAR OF SELLING DIRECT TO THE USER

Vehicle or Harness you require, and SLAYE YOU MONEY. It describes and pictures many styles, giving prices and SLAYE YOU MONEY. It describes and piceshood of Selling Direct and EPRINGING PREMAIN. TREETAID, and fully explains our pay the freight in Ontario and EF you the Middlemen's Profit. Remember, we he asking. Send for it Toda, Esstern Canada. The Oatalogue is Free, for

INTERNATIONAL CARRIAGE CO.

Dept. "D" Brighton, Ontario



This Engine Runs on Coal Oil

They give far more power from coal oil than other they give far more power from coal oil than other cheap; in dam gasoline. They are safe, as well as cheap; in dam gasoline. They are safe, as well as cheap; in dam gasoline. They are safe, as well as cheap; in dam gasoline. They are safe, as well as the control of the complete of the control of the c Absolutely guaranteed for 18 years. Write for free catalog and opinions of satisfied users. Special offer in new territory.

S to 15 horse-power We pay Duty and Freight Ellis Engine Co., 90 Mullett Street DETROIT, MICH.

Up-to-date dairy equipment brings bigger profit to use.*s, because it saves time and insures higher grade products.

We carry a very complete line of all requisites for the creamery, cheese factory, dairy and milk dealer, all of the highest grade, because we know it does not pay the dairyman to bur equipment of any other kind.



The De Laval Line of Dairy, Creamery, and Farm Supplies



VICTOR CHURNS. The best butter with the least work can be made with the Victor Churn. Both churns the butter and works it. Years of churn building experience back of it. Large sizes for creameries and smaller sizes for farm dairies.

is fully equipped. The Ideal Green Feed Silo has been longest on the market. The best and most popular silo made in Canada. All sizes.

DE LAVAL WHEY SEPARATORS turn waste into profit. Every ch should install one. Butter made from whey cream brings a good price and the butter-lat recovered from the whey will more than pay for the machine the first year.

Our line of creamery, dairy, cheese factory, milk dealer's and farm equip-ment is most complete. We stall be pleased to mail complete catalog if you will write advising what supplies you require.

DE LAVAL DAIRY SUPPLY CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA

Exclusive Canadian distributors of the "World Standard" De Laval Cream Separators

MONTREAL

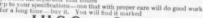
PETERBORO WINNIPEG VANCOUVER

Pay the Price of the Best -No More-No Less

ECONOMY in buying a cream separator does not begin nor end with the price. You may easily pay too little and just as easily pay

Learn the difference between

Learn the difference between gears that work without back lash and those that have it or develop it soon. Learn the importance of it soon. Learn the importance of a self-adjusting bowl spindle bearing, and learn to know one when ing, and learn to know one when conce between brass and phosphor bronze as a material for bearings. bronze as a material for pearings. Buy a separator with an oiling system that cannot fail you even for a few minutes of a run. When you find the separator that come



IHC Cream Separator Dairymaid or Bluebell

HC cream separators turn easily and they are easy to run because the working parts are surrately made and the bearings are sufficiently lubricated. The shaft sacurately made and the bearings are sufficiently lubricated. The shaft sacurately made are the strongest used in any separator. The shaft and spindle bearings as supported by the frame, but have no contact with it. The contact are supported by the frame, but so lost motion between them. They are entirely protected from grit and milk, and at the same time are easily accessible for cleaning. See the 1 H C local agent and ask him to give you a demonstration of the efficiency of the machine as a skimmer and to go over with you and explain carefully all of its good, mechanical points. You are gree catalogues and full information from him, or, write the pages to be a contact to the contact of the co

International Harvester Company of Canada, Ltd BRANCH HOUSES

Braudon, Calgary, Edmonton, Estevan, Hamilton, Leibbridge, London, Montreal, North ttleford, Ottawa, Queboc, Regins, Saskatoon, St. John, Winnipeg, Torkton



Creamery Department

Butter makers are invited to send
contributions to this department, to
ask questions on matters relating
to butter making and to suggest
to butter makers relating
to butter makers are invited to send
to suggest the suggest to suggest the suggest to suggest the suggest to suggest the s

Creamery Calf Rearing

"Will you came to the station and see a carload of heifer calves that I have down here?" The editor of Farm have down here?" The editor of Farm and Dairy, who received the message over the 'phone hustled down to the Grand Trunk Railway depot and there inspected a car of 76 herfer calves all the way from three days to six weeks, old, that Mr. Wm. Newman, of Vicinia. toria Co., Ont., was taking to his creamery at Lorneville.
"What are you going to do with

them?" we asked.

them?" we asked.
"I am going to raise them on butter
milk this summer and sell them in
the fall," answered Mr. Newman. "I
am saving some of the annual slaugh." am saving some of the annual staughter of cheese factory calves. I will feed them well this summer on butter milk, grain and pasture, and next fall I will call a sale and dispose of

"Is this your first experience with butter milk calves?" we asked. "No, I tried the scheme out with

"No, I tried the scheme out with 15 calves last summer," replied Mr. Newman. "They did well, so this year I am branching out a little more extensively. These calves were pur-chased down in Grenville county. I would buy a man's winter supply. They cost me from \$2 to \$8 each, and will average me between \$5 and \$6

when I get them to Lorneville."

Practically all of Mr. Newman's consignment of calves were from pure consignment of calves were frem pure bred Holstein or Arrabire bulls, and with the exception of five or any rather inferior individuals, they were a fine looking bunch of youngsters. The greater number were Helsteins, Raising calves is rather an unusual side line for the ceamery man and later we will endeavor to give Farm and Dairy readers information as to how Mr. Newman succeeds with his novel enterprise.

The Cooperative Laundry

Cooperation is becoming more successful in the farming communities each year. There is one phase that cessful it control to the cooperative laundry.

There is one phase that has not been as extensively adopted as it deserves. Reference is made to the cooperative laundry.

the cooperative laundry.

The time was when all the butter was made on the farm. This was the duty of the farmer's wife, a duty that she thought inevitable. Progress brought the cooperative creamery to-day a great burden is lifted from the shoulder of the farmer's wife be-cause this work is taken from the farm home and placed in the factory especially adapted to its needs. The cooperative creamery is a recognized success, in fact almost a necessity, in every dairy community. It produces a better quality of butter than can be better quality of outer transfer uni-formity to the product and it has re-volutionized dairying.

volutionized dairying.

The next step, or at least one of
the most logical things that will surely
follow, is the cooperative laundry.
There is no reason why this should not
be just as successful as the cooperative
creamery. There is as much hard
work in connection with the family
laundry as there used to be in butter
making. It is possible to relieve the
housewife of this work and it is only
fair that this should be done. Even. housewife of this work and to is only fair that this should be done. Farmers of to-day are anxious to make money not for the money itself, but for what it will provide and this greater convenience should be one of the things provided.

Cooperative laundries are being

tried in certain dairy sections in contried in certain dairy sections in con-nection with the creameries. The power is at hand and also the steam. The former is used only part of the day and it wou'd be possible to direct the management so that the laundry work could be done without much additional expense save for a slight change in the building and for a little change in the building and for a little extra machinery. Such an innova-tion would prove a blessing to many communities and it is not a wild dream to prophesy its general adop-tion in the near future.— Kimball's Dairy Farmer.

It is a poorly run creamery that does not add to the prosperity of the community in which it is built.

Milk is the result of chemical ac Milk is the result of enemical ac-tion in the udder of the cow. Casein and milk sugar are found in the udder and not elsewhere in the body. The explanation is that while the blood is passing over and around the sacks of the adder the food of the blood is transformed into the form of milk.— J. G. Taggart, B.S.A., Frontenac explanation is that while the blood is

Around the World via "Empress of Asia"

of Asia

The "Empres of Asia" will leave
Liverpool June 14, calling at Madeira,
Cape Town, Durban, Colombo, Singapore and Hong Kong, arriving Vancouver August 30th, Vessel remains
14 days at Hong Kong. "Rate for couver August 30th. Vessel remains 14 days at Hong Kong. "Rate for entire cruise, \$639.10." Exclusive of entire cruiss, \$539.10." Exclusive of maintenance between arrival in England and departure of "Empress of Asia," and stop over at Hong Kong. Particulars from Canadian Pacific Agents, or write M. G. Murphy, District Passenger Agent, Toronto.



WANTED

THIRTY CHICKENS. Must be of laying strains. State price, delivered, C. P. R., Dalhousie Mills Station. A. J. McRAE

Bridge End Ontario

Cream Wanted was furnish on a sand on a sand on a sand on a sand on a sand. For reference—Imperial Bank, Ridgeway, Ont.

CREAM WANTED

We pay the highest city prices for cream delivered sweet or sour at any express the property of the property o

Toronto Creamery Co., Ltd.

Highest Price for Cream

I .- We supply cans and pay express

II -Test every shipment upon ar-ival and send a statement for same. III.—Pay every two weeks and oash hecks at par.

checks at par.

It costs you nothing whatever to give our system a trial.

Let us send you a can and enable you to try a few shipments.

For fuller particulars write

The Berlin Creamery Co. Ontario Reeese Chee Maker

April

***** Some By

So New enough to makers he don't halis bunch of the world t is because outside of idea of the enable us same basis

I do not our patrons are respons of the def

A Dirt One of the first the dairyman quality of the or factory, is milk pails. (the one here is derfully large

What cheese heated and therefrom che keep good? farmer who s a rarity.
patrons den't milk house. stable in five most cases it are milked the first one methods. It farmer who is dian farmer as cheesemaker w What do you s

DOUBLIS And then t question. In c the cool-curing we ever got all we add to the tron, insufficier green is it any hold our own! New Zealand o held a reasona fore shipping.

There is make mention ing to do with refer to "pay as robbery to p three per cent. as we pay the 4.5 per cent. n will make just cheese again. milk. It reduces is in cones The rt of the to direct laundry much ada slight or a little to many

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Ltd.

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Makers are invited to send contri-butions to this department, to ask questions on matters relating to the feets for disc and to sugress sub-tification of the contribution of the total contribution of the contribution of the total contribution of the contribution of the total contribution of the contribution of the contribution of the total contribution of the co

Some of Our Problems By "One of the Boys,"

By "One of the Boys."

So New Zealand is beating us out on cheese quality. This in itself is enough to indicate that we cheesemakers have our own troubles. I don't believe that there is a better bunch of cheesemakers anywhere in the world than we have right here in Canada. If our cheeses is aldegtive it. the world than we have right here in Canada. If our cheese is defective, it is because of conditions more or less outside of our control. I will give my outside of our control. I will give my idea of the steps that are necessary to enable us to put our cheese on the same basis as the New Zealand

article.

I do not wish to be unduly hard on our patrons, but I believe that they are responsible for fully 75 per cent. of the defects in Canadian cheese.



A Dirt and Germ Eliminator

A Dirt and Germ Eliminator
One of the first measures to be taken by
the dafryman who would improve the
unality of the milk that he sends to cley
or factory, is the securing of suitable
or factory, is the securing of suitable
the one here therefore milk pails such
the one here of dirt and germs.

What cheesemaker can take over heated and dirty milk and make therefrom cheese that is good and will keep good? In my own section the farmer who stores ice and uses it is a rarity. The great majority of the national dark ways well. a rarity. The great majority of the patrons den't even provide a covered milk house. I don't believe that one take house. I don't believe that one most cases it is there that the covaries are milked. The careless patron is the first one who needs to change his methods. It is the New Zealand farmer who is beating out the Canadian farmer and not the New Zealand cheesemaker who is the most skilful. What do you say, boys?

And then there is the cool-curing question. In our own factory we have question. In our own factory we have the cool-curing room and wonder how we ever got along without one. When we ever got along without one. When tron, insufficient curing, and shipping green is it any wonder that we cannot hold our own? I am told that all New Zealand cheese is cool-cured and held. held a reasonable length of time be-

tied a reasonable length of time betied a reasonable length of time betieve ship in the ship in th

Cheese Department
Makers are invited to send constitutions to this department, but to under the constitutions to this department, but to desee making and to suggest sub-buttons to this department, but to desee making and to suggest sub-buttons to this department, but to desee making and to suggest sub-buttons to this department, but to define the condition by refusing to agree on any condition by refusing to harmony among the powers that be!

Progress in Grenville

W. G. Gardiner, Grenville Co., Ont. W. G. Gardiner. Grenville Co., Ont.

It would be delightful to say that
there were no unsatisfactory condition surrounding the dairy industry
in Kemptville District, in which I
am instructor. We yet have too many
poor conditions, both at the factory
and surrounding the home dairy;
factories with poor equipment, disfactories with poor equipment, discolored ceilings and walls, wet, alippery floors and unsanitary surroundings; home dairies with no provisions
for properly cuting milk, dark unsanitary stables and in some cases very
poor milk utensils.

for properly curing milk, dark unsanfor properly curing milk, dark unsanfor properly curing milk, dark unsanpoor milk utendia

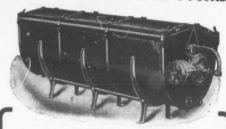
Yet there is a brighter side to the
dairy instruction work. A large

Yet there is a brighter side to the
dairy instruction work. A large
number of the factory managers have
responded to advice and recommendations. They now have their places
of business in first class shape; interior of the factories painted or nicely
whitewashed, in some cases painted
on the outside and adequately equipperly handled product can be properly handled product

of the good cheese made.

Allow me to sound a note of warning to the careless patron or factoryman who has not or who will not comply with regulations governing this grand dairy industry. I fear the Department of Agriculture will be forced to put the law in action and show the indifferent man that this industry is of great importance to the country and at least common decency is demanded of the man engaged in it. In this connection I call to mind the saying of an eminent dairyman that, "We must be alive and up-to-date or get out of the business."

Better Butter--Greater Profits



That is what the use of the "Beaver" Cream Ripener means to the butter maker.

The ripening process as carried out by the "Beaver" Ripener brings out fully the desirable qualities in the cream. It greatly improves the flavor, the aroma, and the keeping qualities.

You will obtain a much higher price for your product and it will gain popularity, meaning larger sales and more profit for yourself. The "Beaver" Ripener is an economical machine. The cost is moderate and the operating expense is low

Write for Full Information

Drop us a card to-day, for full information on the "Beaver" Cream Ripener. You will be greatly interested in this machine, and its uses Address: Dept. B.

W. A. DRUMMOND & CO., King Street, E. Toronto, Ont. (Creamery and Dairy Supplies)

Why "MONARCHS" Are Best

Our "red circle" folder explains the wonderful "Monarch" farm engine, part by part. This engine will saw pump, grind, run cream separater, cut sliage, Move it from place to place. Every part is made by experts, and made to last. Get our folder.



Send a Post-Card to-day for the "red circle" folder and prices and terms on 1½ to 35 h.p. sizes.

CANADIAN ENGINES Limited DUNNVILLE, ONT.

Sole Selling Agents in Eastern Canada
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THE best work is always done by those who have (the ability to laugh and play. - Elbert Hubbard

Rose of Old Harpeth

By MARIA THOMPSON DAVIESS "Copyright, 1912, The Bobbs-Merrill Company" (Continued from last week)

O, you're not—just a boy," answered Rose Mary, as she set his supper on the table behim. She had poured his cof-stirred in the cream and sugar, fore him. ree, stirred in the cream and sugar, and laid the spoon straight in the saucer beside the cup. For an in-stant Everett sat very still and look-ed at her, then she picked up the cup and tipped it against her lips, cup and tipped it against her lips, sipped judiciously, and set it down with a satisfied air. For just a se-cond her eyes gleamed down at him over the edge of the cup and a tiny laugh gurgled in her throat as she swallowed her sip of his beverage.

"That was mine, anyway—he can have his chicken wings." said Ever-ett with a laugh as he began opera-tions on the food before him.

"It wasn't a very nice party," answered Rose Mary as she went on swered Rose Mary as she went on with her work on the pile of china. "Stonie acted awfully. He piled up his plate with pieces of chicken, and when Aunt Viney reproved him he said he was saving it for you. And Aunt Viney said she was sure you were sick, and then Uncle Tucker wested to gook for you and I had. were sick, and then Uncle Tucker wanted to go look for you, and I had to tell him before them all that you had sent me word. Then Aunt Amandy said she was afraid you were not a Prohibitionist, and Aunt Viney said she would have to talk to you in the morning. Then they all teld Mr. Newsome about two and the said to you in the morning. Viney said she would have to talk to you in the morning. Then they all told Mr. Newsome about you, and I don't think he liked it much because he likes to tell us things about himself. We are so fond of him, and we always want to hear him talk about where he has been and what he has done. I tried to stop them and make him talk, but I couldn't. It's strange how liking a person get the strange how liking a person get like the strange how like how like he strange h

CHAPTER VI. THE ENEMY, THE ROD, AND THE STAFF.

And the days that followed And the days that followed the Senator's prohibition rally at Sweet-brian were those of carnival for jocund spring all up and down Pro-vidence Road and out over the Val-ley. Rugged old Harpeth began to be crowned with wreaths of tender green and pink which trailed down its sides in garlands that spread themselves out over meadow and farm away beyond the river bend. Overnight, rows of jonguis in Mrs. Poteet's straggling little garden lifted up golden candlestick heads to be decapitated at an early hour and transported in tight little bunches in dirty little firsts to those of the neighbors whose spring flowers had

front porch hung thick with long, purple clusters which dropped con-tinually little bouquets of single inually little bouquets of single blossoms with perfect impartiality on the company of widow and maid, as the company of widow and maid, as the company of or intertaining both young Bob and of entertaining both young Bob and for the company of th

balls hung white and heavy from long

balls hung white and heavy from long branches, and gorgeous likac boughs bent and swayed in the wind. A clump of bridal wreath by the front gate was a great white drift against the new green of a crimson-starred burning bush, while over it all trail-ed the perfume-laden hone-yeuckle which bowered the front porch, de-corated trells and trees and finally flung its blossoms down the hill to proper the start of the start of the start of the proper start of the start of t

One balmy afternoon Everett

A Healthy and Pleasant but Uncommon Form of Recreation

Our grandmothers and great-grandmothers were past masters in the art of riding We of to-day prefer the easy riding, cushioned buggy. But will our method of travel offer us as much in health and pleasure as did the method of long ago, still practiced to a limited extend.

failed to open at such an early date. In spite of what seemed an open neglect, the Potect flowers were always more prolific and advanced drawn by the wily Mr. Crabtree into the mystic circle of three, which was than any others along the Road, much to the pride of the equally prolific and spring-blooming Mrs. Potect. And in a spirit of nature's accord the white poet's narcissus showed starry flowers to the early sun in the greatest abundance along failed to open at such an early date. showed starry flowers to the early sun in the greatest abundance along the Poteet fence that bordered on the Rucker yard. They peeped through the pickets, and who knows what challenge they flung to the poetic soul of Mr. Caleb Rucker as he sat on the side porth with his stockinged feet up on a chair and his nose titted to an angle of eestatic inhalation? Down at the Plunketts the early wistaria vine that garlanded the

brushed aside a spray of the pink and white blossoms and stood in the stone doorway with his prospecting kite in his hands. Rose Mary lifted quick welcoming eyes to his and went on with her work with bowl and paddle. Everett had some time since got to the point where it paddle. Everett had some time since got to the point where it was well-migh impossible for him to look di-rectly into Rose Mary's deep eyes, quaff a draft of the tenderness that he always found offered him and keep equanimity enough to go on with the affairs in hand. What business had a woman's eyes to be so filled with a young child's innocence, a violet's shyness, 'a passion of fostering entitleness, mirth that ripples like the surface of the crystal pools, and—could it be dawning—love? Everett had been in a state of uncertainty and missery so abject that it hid itself under an unusually casual man-self under an unusually casual man-self under an unusually casual manself under an unusually casual man-

ner that had for weeks kept Rose Mary from suspecting to the least degree the condition of his mind. There is a place along the way in the Incre is a place along the way in the pilgrimage to the altar of Love, when the god takes on an awe-inspiring phase which makes a man hide his eves in his hands with fear of the most abject. At such times with her lamp of faith a woman goes on ahead and lights the way for both, but while Rose Mary's flame burned strongly, her unconsciousness

"I'm so glad you came," she said "I'm so glad you came," she said with the usual rose signal to him in her cheeks. "I've been wondering where you were and just a little bit uneasy about you. Mr. Newsome uneasy about you. Mr. Newsome has been here and wants to see you He stayed to dinner and waited for you for two hours. Stonie and Toband and all the others looked for you. know you are hungry. Will you have a drink of milk before I go with you

"What did the Honorable Gid want?" asked Everett, and there was wantr asked Everett, and there was a strange excitement in his eyes as he laid his hand quickly on a small irregular bundle of stones that bulg ed out of his kit. His voice had a sharp ring in it as he asked his question.

"Oh, I think he just wanted to seyou because he likes you," answered Rose Mary with one of her lifted glances and quick smiles. "A body can take their own liking for two can take their own liking for two
other people and use it as a good
strong rope just to pull them together sometimes. I'm awfully fond of
Mr. Newsome—and you," she added
as she came over from one of the
crocks with Peter Rucker's blue cubrimming with ice-cold cream in her
hand and offered it to Everert.

Instead of taking the cup from her Everett clasped his fingers around her slender wrist in the fashion of young Petie and thus with her hash raised the cup to his lips. And as his eyes looked down over its blue rim into hers the excitement in them died down, first into a very down the contract of the Instead of taking the cup from her to be pouring a promise and wow in-to her very soul. Something in the strange look made Rose Mary's hand tremble as he finished the last doe in the cup, and again her lovely, al-ways-ready rose flushed up under her long lowered lashes. "Is it good and cold." she asked with a little smile cold." she asked with a little smile "Yes." unswered Event of the mile "Yes." unswered Event of the mile "Yes." unswered Event of the mile

"Yes." answered Everett quieth:
"it's all to the good and the milt to the cold, and the milt to the cold, and the milt to the cold the milt, too?" laughed Rose Marr from over by the table as she again took up the butter-paddle. "It's nick to find things as is expected of them. to find things as is expected of them women good and milk cold, isn't it?"

women good and milk cold, isn't it's she queried teasingly.

"Yes," answered Everett from across the table.

"And any way a woman must be a comfort to folks, just as a rose must smell sweet, because they're both born for that," continued Rose Mary as she lifted a huge pat of the hutter, on the ablue sweet. butter on to a blue saucer. "Mea are sometimes a comfort, too-and sweet," she added with a rocuish glance at him over the butter flower

sweet," she added with a frounce chance at him over the butter flower she was making.

"No. Rose Mary, men are just thorns, cruel and slashing—but sometimes they protect the rose," answed Everett in his most cynical toe of voice, though the excitemest again flamed up in his dark eves and avain his hand closed over the kit a his side. "Do you know what I think I'll take old Grav and jog over the Boliver for a while. I'll see the Seator, and I want to get a wirthrough to the firm in New York I can. (Continued next sueek)

greeese The aggaggagg. K The O

April 2

The Lord His.-II. Ti

How man have ever pa a crowd of I is caring for never forget by thinking tries to the bast of us to for and pouri onthy toward We are such being engross in our limite power is alm

Then again God is ever w that Adam a themselves fre eaten of the do we not try attempt at timenot see God w He cannot see our side and k action.

Although we

s kept Rose f his mind. ne way in the an hide his mes with her r both.

burned

, 1913.

ousness was e," she said wondering Newsome to see you waited for ie and Tobe for you. I go with you

orable Gid there was his eyes as on a small asked his

her lifted "A body ng for twe as a good them toge-ully fond of 'she added one of the 's blue cur-ream in her erert. up from he

fashion o fashion of the her hand s. And as er its blue ent in them ich seemed ning in the last dree lovely, allittle smile he cup. ett quietly. d the milk

Rose Mary she again "It's nice ed of them. I, isn't it?" erett from

n must be as a rose inued Ros pat of 11 Mee too an a roguish

but some vnical tope excitement k eyes and the kit at w what I og over to se the Sen-set a wire et a wire ek)

The Upward Look

The Omnipotent Father

The Lord knoweth them that are this.—II. Tim. 2:19.

How many who read these lines are veer paused when mingling with a crowd of people, to think that God is a winter how simple or yet little have ever paused when mingling with a crowd of people. to think that God is a crowd of people to think that God is a crowd of people. The people of the people with think that God is a crowd of people to think that God is a crowd of people to think that God is a crowd of people to think that God is a crowd of people to think that God is daring for each one and that He never forgets us.

The only way to obtain the company the crowded people to think that God is daring for each one and that He never forgets them even for a moment? Then we can enlarge on this when the company the crowded people to think that God is daring for each one and that He never forgets them even for a moment. Then we can enlarge on this when the company the company the company the company that the company the company the company that the company the company that How many who read these lines have ever paused when mingling with a read of people, to think that God a read of people, to think that God a read of the the state of the think that God a read of the think that the think t power is almost too great for us to

Then again we seem to forget that God is ever-with us when we are tempted to do wrone. We re told in Genesia that Adam and Fre told the shad themselves from God the themselves from God the shad themselves from God the same to the forbidder themselves from God the same attempt at times? Because we cannot see God we appear to think that the cannot see us. But the is ever by our side and knows our every thought and action. Then again we seem to forget that and action.

Although we may be filled with awe

storm, but should be a steady light along our pathway. The Lord knoweth them that are The Lord knoweth them that are His." And are we not all His children? We do not belong to ourselves and we are told that we cannot bring anything into the world, nor can we take anything out. We are but the stewards of God on earth, and He expects us to make the best use possible of the talents He has given us. If our motive in life is to do what is pleasing in God's sight we are living a life that is worth while.—R. M. M.

. . . Before using a new lamp wick, starch and iron it; dry it thoroughly before putting it in the burner. You will get a bright light, and will save nearly half the cost of wicks and

Let built for two and is now occurried built for two and is now occurring the control of the success that control of the success ladder and is elimbing slowly, surely, carefully. He has his eye on the 20 acres adjoining his feed lot and it will be his by and by.

He lows Herself and no other.

The boy and the girl are healthy

The lowe Herself and no other.

The boy and the girl are healthy youngsteen. The boy whistles and the girl sine. The health youngsteen was the second of the nerve Herself never complains of her nerve Herself never complains of her nerve Herself never this woman, "How can this woman, the woman was the property of the

seir-sacrince, unseinshness, and as sure as two and two are four it will bring happiness. Positively the culy way that has ever been discovered by which people can make themselves happy is to make somebody else

Happy little woman!

Happy little woman! If you only knew hew pathos of it all). If you only knew hew hew had bappier you are than the average of the pathos of it all). If you only knew hew are happier you are than the average of the pathography of the pathograp when you were "so he poor."—Western Farmer,



Peep again in your oven. See those loaves, those pleasing loaves you've made.

How fat-rounded-substantial. No, they wont fall when colder.

Because the Manitoba strength that is in FIVE ROSES will hold them up till eaten.

This sturdy elastic gluten has kept them from dropping flat in the oven. No unsightly holes 'twixt crust and crumbnever.

All risen evenly-to stay risen. Never heavy sodden soggy indigestible. Yours are the FIVE ROSES loaves-Crinkly and appetizing of crust, Golden brown and tender. Snowy of crumb - light as thistledown, FIVE ROSES helps a lot. Try it soon.

Five Roses

Not Bleached



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Not Blended

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Kitchen Time-Savera

To the busy mother doing her kitchwork "against time" en work "against time" every step taken, every tick of the clock, counts, says a writer in Successful Farming. en single minutes saved mount up. Here are a few proved aids:

If the jar of fine bread crumbs is empty just when crumbs are needed in a hurry to complete a dish of scalloped meat, fish, potatoes or other vegetables, don't stop to grate fresh bread or roll crackers, but if there is in the house a box of any flaked 'ready to serve' breakfast food, eithcorn or wheat, crumble the flakes well between the hands before strewing over the scallop, and dot the layer well with butter, exactly as when us-ing crumbs. This is especially delicious with salmon or other fish

A food cutter with the largest hole plate on is a boon when one is making family salads. Cabbage for cold slaw can be put through it, care being taken not to cram in too much at one time, and, while not so crisp as when cut by hand, it is yet very delicious to eat. Small bits of meat, and either green or blanched stalks and tops of celery, if put through the coarse cut-ter and mixed with salad dressing, seasoning as liked with finely chopped parsley or a little grated onion, and adding chopped pickles or olives, even with sliced hard boiled eggs to eke out a small quantity, will result in a most appetizing and homey dish for lunch on warm days if served on fresh, crisp lettuce.

crisp lettuce.

Equal parts of meat and celery can
be used for this "hash salad," and
odds and ends thus carefully combined
soldom fail to tempt the daintiest of appetites

Success With Sweet Peas Mrs. Nicholson, Lincoln Co., Ont.

Having met with some success in Having met with some success in the growing of sweet peas, I would like to tell you how our success was obtained. In the first place we secured all the new kinds (that is Spencer's) that we could obtain both in the United States and England. Some 30 varieties in all were pro-cured, no two alike. As they were cured, no two alike. As they were all expensive, and as there were only 10 or 15 seeds of some kinds, we did not like to lose them. We therefore bought a book on sweet peas.

This is one of the things it taught Into is one of the things it taught us — to bury the packets in the ground, and cover them an inch deep for eight or 10 days. This we did, after which they were ready to be planted. We did not dig a trench this time. As the ground was heavily manured, we took out about three sinches of earth and as the sender were inches of earth, and as the seeds were nearly all sprouted, we planted them just where we wanted them to stand. With those that were not sprouted we took a knife and gently cut them. In all I do not think that we lost a dozen seeds. Each kind was kept separate and all were labelled. When ey were coming through the ground we took ashes from the rutbish pile and sprinkled them well on each side of the plants, so that the grubs would not disturb them.

TRELLISING

When the plants were up an inch or more we began to hill them up. As soon as they began to throw out feelers we began to string them. day or two we tied another string. Where there were only one or two we never let a bud flower. We had any number that had four flowers to a stem. We have cut a bouquet eight or 10 inches across and every one with four flowers on, and such beautiful

A couple of days before our fall show we bought cotton sheeting two yards wide that covered the rows. To

stand and look under the covering was a sight too beautiful for descrip-tion. You will never know what some varieties are like until you shade them from the sun, especially in the oranges, reds and pinks. They are simply gorgeous.

simply gorgeous.

If you are wanting to exhibit
them, covering them with cotton will
protect them from the wind and
rain. One Sunday we had the worst
wind and rain storm of the season.
Had we had cheese cloth instead of
cotton we would not have wen any
the state of the season.

The state of the season was held. Duesday, when
the show was held. Duesday, when
the show was held. Duesday we see the season was th sweet peas like soap suds.

Contentment on the Farm Bu Mrs. A. D. C.

If you will come with me to my home I will-show you some labor-saying devices for the housekeeper. One the breadmaker. I am surprised that se many women will continue to stand at the bread board and knead "the staff of life" for a half-hour "the staff of life" for a half-hour every baking day. That time and labor could so easily be saved. The breadmaker does the work in three minutes, and does it well. It mixes and kneads the dough with scientific and kneeds the dough with scientific accuracy, thoroughly and evenly mixing all the ingredients. Then I also have a food chopper. This does away with the drudgery of the chepping bowl. It chops all kinds of food. coarse or fine as wanted, as rapidly as possible. Last spring my husband insisted on my getting a vacuum cleaner. With that the carpets and cleaner. With that the carpets and rugs can be kept free from dust all the time, and the carpets need not be taken up unless you wish to turn them or substitute new ones.

The R. F. D. saves much travel for

country people. How would you like to go back to the time when you had to go back to the time when you had to drive miles to mail a letter or get your weekly paper? Now you can have a daily brought to your home six times a week. Then think of the convenience of a telephone. If there is sickness in the home and a doctor is needed in the night, it is not necessary for the man of the house to drive through darkness and distance the cost medical aid. An M.D. can be cost medical aid. An M.D. can be cost medical aid. to get medical aid. An M. D. can be summoned quickly, and in his lighted automobile can come speedily, perhaps save a precious life. Then you can talk with your friends over the phone and save the time spent in calling at their homes. Our phone has been lowered on the wall, so busing a stool 25 inches high I can see using a scool 20 inches high I can set and rest while answering a call. The stool is also just right when ironing and doing other kinds of work. Another comfort of country life good driving horse and a comfortable to take the eggs to town and get some supplies.

Another feature of farm life is the quietude. Think of the long winter evenings at the farm fireside with good literature and music. good iterature and music. Think of the shaded lamp, the easy chairs, the red apples and home-made candies. How much better these surroundings for the young people than the que-tionable amusements of the town! I was in a farm home yesterday where the daughter plays the piano, her brother has a flute and another member of the family does good work on a violin. Then how they can sing! They are devoted to the farm, and at the same time they are good students the same time they are good senting the developing in body and mind. There is plenty of wholesome, helpful reading in that home. One of the bors was given the privilege of going the city during the holiday season. but he was not anxious to make the trip. Why? Because he was contented at home.—The Farmer.

April A Sa Mrs W

Years a heard som house "When I a no hasty heard the this depa whereby or made tidy

time the of spring a vocated this preferred thereby ho thinking at I often t

more THE ve as most of the n the brill energy, ent.-F

Some much opposi came a house carried out t time went or nerve-racked less, chaotic resting place style,-just w taking on rea all this. Why a dreaded tin surrects quiet sanely at the following natu and vegetable should God's hub-bub, such

for want of th days in which

for the rush.

In the grea there is the an there is the ambish sales, cle things already the old, and ye courteous sales ready to cater dividual custom to the public. this system in when the winte donned, would opportunity to mer surplus cles carding as neces needed supplies ten in January lines may be obt wear and cotto should do the s ding, curtains, ready and wait When one comes eously used in clready for the h clothing, or furs. suffices for clean packing away th

Now for the ac by little, many straightened in stoves are used, h pipes cleaned, n in a dry attic or dampness allows room having been ready to receive t farmer's wives w had the ham sm tables removed made into jelly or glasses filled, and has no maid my a ly, never mind wh

Use

exhibit tton wil he works season.

arm

tinue t n I als oes away chepping

dust al need not to turn ravel for you like you had er or get home six of the If there a doctor not nec house to

on stances. Can be s lighted ly, and Then nds ove ne spen ur phone I can sit ironing A ..

fe is the g winter ide with Think of candies oundin s he ques y where er mem work on

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e to my per. One surprised d knead

ed. The in three It mixes scientific only mixof food husband vacuum pets and

mfortable and get

students. There the boys going o season,

vas con-

A Saner House Cleaning

Mrs. W. R. Munro, Prince Edward Co., Ont. Co., Ont.

Years ago, when but a child, I overheard some ladies discussing methods of housecleaning. One lady said, "When I am mistress of my cwn house there will be no upheaval, no chaos, no hasty meals, etc." Everyone has heard the same remark. This lady would by thought, evolve a system in this department of homemaking, whereby one room at a time would be whereby one room at a time would be this department of homemaking, whereby one room at a time would be made tidy and clean and all in good adopting easier ways just because of spring and sunshine. She alone advocated this plan, the others said they preferred the all-in-a-heap method, thereby hoping to gain time, never thinking at what a cost.

We will suppose that one day you prepare as much as possible for the lunch baskets and the meals of the fellowing day. Next morning get up early, make yourself neat and clean in expressed so emphatically against so

there is the annual stock taking, rubbish sales, cleaning up time, new things already purchased replacing the old, and yet we always find the courteous salesmen and salesladies, ready to cater to the wants of the individual customer and to be pleasant to the public. New why not follow this system in the house? Last year when the winter garments had to be donned, would have been alweldid opportunity to take stock of the sumer surplus cleaning, mending or discarding as necessary, making a list of

mer surplus cleaning, mending or dis-carding as necessary, making a list of needed supplies for next season. Of-ten in January or February these lines may be obtained when the white wear and cotton sales are on. We should do the same with linen bed-ding, curtains, etc. Then we are

anoun do the same with linen, bed-ding, curtains, etc. Then we are ready and waiting for an off day. When one comes it may be advantag-cously used in clearing a cicthes room ready for the heavy bedding, warm clothing, or furs. Thus, a short time suffices for cleaning, fumigating and packing away these things when the warm days come.

Now for the actual cleaning. Little Now for the actual cleaning. Little by little, many small spaces are straightened in perfect order. If stoves are used, have chimneys swept, pipes cleaned, numbered and stored in a dry attic or storeroom where no

in a dry attic or stcreroom where no dampness allows rust to corrode, this room having been cleaned and made ready to receive them. Of course we farmer's wives will before this have had the ham smoked, decayed vege-tables removed from cellar, apples made into legly or canned, marmlade glasses filled, and so forth. If one has no maid my advice is to go slow-

glasses filled, and so forth. If one Next day get busy at another room has no maid my advice is to go slow- and so on until all are done. Don't y, never mind who is done or nearly I beseech of you, leave the re-decorat-

arm days come.

there is the annual stock taking, rub-

done. Just keep in mind that for you and your house you will be neat, sweet and clean always and ever, not just after housecleaning.

DISCARD USELESS ARTICLES

DISCARD USELESS ANTICLES
So many women hoard and handle
many useless and imbeautiful things
year after year. The make extra
work and the idea of the up-to-date
woman is to conserve her require by
every legitimate means of years
provent of the province of

big gingham overall apron and dust

big gingman overall apron and dust cap and away to a dinner quickly and appetizingly laid out as all is ready. Wash up dishes and rest for a few minutes at least, an heur if possible. If you intend to be busy all day va-

this is soul-satisfying and restrict. If you have a son or daughter ask his cr her aid and advice in the work of decorating, for they like to know it is their home too.

is their home too.

FUEC CALLERS WELCOME
Should a stray caller or a belated
Should a stray caller or a belated
traveler drop in during the housecleaning campaign, you with a neat
wash gewn and tidy hair, kept so by
your during cap, may have on your
company manners and need not be
"not a begin a ready and will
have the straight of the straight of the control of the straight of t

velopement and right employment of one is quite as much as most of us can accomplish. And, as a rule, the people who are

of the most service to their generation and climb highest, are not

the brilliantly endowed, but those who put all their efforts, all their

energy, all their enthusiasm, into making the most of a single talent. -F. H. S.

Luceron construction con accessors

THERE are few people who can cultivate ten talents. The de-

Cleanser On Hard Things To Clean MANY USES AND FULL DIRECTIONS ON LARGE SIFTER-CAN 100

SEND \$1.00 Heccive by mail 4 Shirt Waists, one of White Lawn, iace trimmed, and 3 of Print, light, with sky designs; all different; size 32 to 44; add 15e for postage.

STANDARD GARMENT

When Drugs Fail to Cure Constipation

much opposition. Later when I became a housekeeper or hememaker, I carried out these ideas, for I had as time went on, seen so many unitdy, nerve-racked women, so many less, chaotic rooms, husbands witheresting place, children fed in any style—just when everything else was taking on reawakened life. I disliked all this. Why should houseleaning be a dreaded time? Everything else resurrects quietly, systematically and sanely at the first signs of spring, following natural laws in the animal sanely at the first signs of spring, following natural laws in the animal and vagetable kingdom. Then why should foughts. I prefer many days in which to plan, and ene day for want of thought. I prefer many days in which to plan, and ene day for her useh.

In the great departmental stores the came and value of the reals. In the great departmental stores will now he dispense to the control of the reals. In the great departmental stores will now he dispense the store of the prefer hand, and the control of the reals. In the great departmental stores will now he dispense have a decimal and colon of the reals. In the great departmental stores will now he dispense have a decimal and colon of the reals. Thousands of sufferers from Constipa rhousands of sufferers from Consupa-tion and all its attendant ills, strive along from day to day, vainly endeavoring to shake off their affliction by the use of drugs. In the end they are still sufferof drugs. In the chat they are star somer-ers and what is more they are slaves to the drug habit. If only these people could learn for themselves how truly efficient Dr. Charles A. Tyrrell's J. B. L. Cascade treatment is for afflictions of this Cascade treatment is for afflictions of this kind they would shorten their sufferings by many days and soon know again the joy of stalwart, perfect health. If one of these sufferers who has been

vate paint with a woollen cloth, cleaning the woodwork thoroughly. It will now be dinner hour and indeed this may not all be done if there are many things to clean, at that time. When the hour comes remove your cured by the Cascade could speak to you cured by the Cascade could speak to you personally he would in the greatest en-thusiasm talk to you as Mr. E. Nigha-wander, of Green River, Ontario, writes: "For years I have been troubled with constipation, ulcers in the bowels and piles. which all the money and doctors only seemed to relieve temporarily. The J. B. L. Cascade has completely cured these L. Cascade has completely cured these troubles and I feel it a duty I owe to my fellowmen to endorse the Cascade in the very highest terms. No amount of money could estimate the value it has been to me. No home should be without a Cas-

If you intend to be busy all day vacume-clean your rug or your carpet,
actually a second of the second of the second of the
a dusting yet, go over your floor with
a dusting yet go over your floor with
Lo! your room of window glass
and the readjusting of window glass
and the readjusting of react to;
of course if you do not keep a maid
procure a woman to hely you. Put
each piece of furniture in a different
place if utility and harmony will allow of change, for the object to be
obtained is a homey, useful beauty
obtained is a homey, useful beauty
that is soul-satisfying and restful. If
that is soul-satisfying and restful. If Over 300,000 people now use the J. B. L. Over 300,000 people now use the J. B. L. Cascade. Write Dr. Tyrrell to-day. He will be glad to send you his free book, "Why Man of To-day is only of Per Cent. Efficient," and full particulars if you will address him. Charles A. Tyrrell. M.D., Boom 671-8, 200 College St., Toronto, Ont.

CONNOR

(21)

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ERE is a washer that is fully guaranteed. A big manufacturing corporation stands behind it. And the dealers who sell it are piedged to refund the full purchase price if any woman who buys it says she is not completely eatisfied. Under these conditions, you

satisfied. Unde run absolutely no risk in trying the Connor Ball Bearing Washer.
If it doesn't do
the washing 'in
half the usual time,
if it doesn't wash the
clothes spotlessly clean and without injury, ou don't need to keep it. That's fair, isn't it? Write for descrip-tive booklet. 16

J.H. Connor & Son, Ltd., Ottawa, Ont.

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Parties arriving about March 25th and April 7th MAKE APPLICATIONS AT ONCE TO The Guild, 71 Drummond St., Montreal and 47 Pembroke St., - Toronto

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To MANITOBA, SASKATCHEWAN AND ALBERTA ch TUESDAY until Oct. 28 inclusive

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To ALBERTA AND SASKATCHEWAN Every TUESDAY until April 23th in-clusive, from stations in Ontario, Port Hope, Peterboro and West, at very low

Hope, Peterporo and You, as Trates.
Through coaches and Pul'man TourTable ening cars are operated to WINNIBleeping cars are operated to WINNIBleeping cars are operated to WINNITourist of Charles and St. Paul on
Lower dates.
The Grand Trunk Pacific Railway is
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THIS WASHER MUST PAY FOR ITSELF.

MAN tried to sell me a horse once. He sak twas a fine horse and had nothing the matter with it. I wanted a fine horse, but, I didn'thorse much. And I didn't how we have the matter with mow the man very well

borses much. And I didn't know the man very well show the man very well so I told him I wanted to try the horse for a month. For the man was a state of the man

will do. 4 know it will work a mean on several will do. 4 know it will work a rob follow from the continue to the continue to

O. W. MORRIS, Manager, 1900 Washer Co., 367 Yonge St., Toronto, Ont.

ing of the boys' room till the last, lest you weary and it goes for another year and yet another. And again, do not put the things the girls and yourself tire of into the boys' room thinking anything is good enough, on the asing as girls. Fix up the boys' room for soon, ah soon, other voice call and for soon, ah soon, other voics call and your care and thought may not be needed, but happy memory will recall mother's kindness and mother's love. I find it very convenient to have several pairs of curtains fresh laun-

dered or new, ready to replace those in bedrooms and thus a day often sees a room begun and finished. If decorating, papering or painting must be done, speak early for your helper and be ready before the rush.

Avoid tearing up much at once and

when tired or cross stop and rest, for then O Housecleaner! you are show-ing more personal need of stock taking and renovating than your home or environment. The atmosphere is just as your barometer shows it and the feeling is so contagious that it infects feeling is so contagious that it infects children, husband and casual visitor alike, until mole hills are mountains and a Friedmann with a housecleaning serum must be called. But like the Yankees, you won't let him use it in your home, for you think the work must be done and done by you,—not realizing that you have brought this condition of affairs on yourself by lack of method in your madness to be of method in your madness to be clean. Be systematically clean at all times. Keep ahead of your work. Then there will be no housecleaning as most women do it, but just the sane clean-as-you-go method

. . . Hints on Selecting Wall Paper

G. B. Griffin. As spring approaches housecleaning and wall papering must be considered. Although selecting suitable wall paper is largely a matter of personal taste many owners of homes make mistakes, for there are certain rules which should not be overlooked. Ordinarily not enough attention is given to the selection of wall paper. The whole family should have a word on this important subject and a final vote taken on the best four or five that have n sifted down from a possible 15 natterns

Wall paper of a novel gaudy type will spoil the effect of the furniture and should be avoided. Large figured paper should not be used in low rooms nor should small rooms have deep bor ders or ornate friezes. Plain colors and stripes tend to make a room look higher. Rooms occupied by an inand stripes tend to have higher. Rooms occupied by an in-valid should be papered with plain restful colors. A large figured garish paper will set a sick person almost trantic if they have to look at it every day. Dark red tends to absorb light day. Dark red tends to absorb ingui-and therefore should not be used in dark rocms. Yellow, cream and other light colors are very cheerful for such rooms. Very substantial colors should be used in sunny rooms. Light blues and pinks make attractive and artis-tic rooms, but fade se easily that they are very expensive. A plain background is to be desired where pic-tures are to be hung.

Many people foolishly select fine grades of delicate tinted paper which is very expensive and of short duration. As in everything, styles in wallpaper are merely matters of business paper are merely matters of business. One can usually purchase paper of a year old design at a great reduction in price, and if taste is displayed in its selection, results will be just as satisfactory as if the latest patterns were chosen.

Many people paper a whole floor in one color. That is very good taste. It gives an effect of unity and har-mony so much desired in producing an artistic and restful effect.—Successful Farming.

****************************** SPECIAL PATTERN SERVICE

We realise the great interest that all of our readers take in the new spring styles, and have therefore made arrangements whereby we will be able to give many rover patterns in Farm and Dairy than usual during the next few weeks. These will illustrate many of the attractive spring styles. Should you wish patting with a spring styles to week write us and we have to give name and address, size and number of pattern kindly be sure to give name and address, size and number of pattern desired. Address Pattern Dept. Farm and Dairy, Peterbory, Ont. desired. Address Pattern Dept., Parin and Dairy, Paterbore, Ont.



shield and cuffs, with 6 yards of braid.
This pattern is cut es for boys 6, 8 and 10 years of age BOX PLAITED BLOUSE, 7786

BLOUSE, 7786
The fancy blouse that is closed at the which that is closed at the front is one which makes an important feature of the spring and summer styles. This one is eminent-ly chic and so sim-ple that veriest y case and every series of the teries amateur oan make it without difficulty. The sleeves are cut in one with the side portions, and these side portions are joined to the center portions beneath the plaits. The overlapped edges of the sleeves are pretix

platts. The overlap-ped edges of the sleeves are pretty and smart. When arranged under the sleeves arranged under the sleeves the stitched into place, and the chemiette is separate and closed at the back. This pattern is cut in sizes 34, 36, 38 and 40 inches bats measure.



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10, 12 and 14 years of age.

FIVE-GORED SKIRT, 7798



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EMPIRE NIGHT GOWN FOR MISSES AND SMALL WOMEN, 6972

AND SMALL WOMEN. 6972. Every dainty girl likes pretty licrorie. This night gown is sure to appeal to them. The gown consists of front and back portions and little sleeves that as be finished with bands or left loss. The front includes tusis at the shoulder that the gown can be drawn up at the longing line by means of beading and ribban of is can be left losse. The neck is one or square outline. The gown can be drawn up at the longing line by means of beading and ribban of is can be left losse. The neck is one or square outline. The gown is slipped on the square outline. The gown is slipped on the longing of the gown of the gown is slipped on the longing of the gown of the gown is slipped on the longing of the gown of the gown is slipped on the longing of the gown of the gown is slipped on the longing of the gown of the gown is slipped on the gown of the gown

April 24 How to To

H. C. Bla The rush se work horses work and min long period of have been tra have now to given by the horse's should First of all fits properly. collar to one t pecnally in he it unnecessary sweat pads.

meeded.

My horses, a tion, will be "se hair. They will the collars will I clean move the harn off the grime o



Which Stallie difference of 85 it the right kind ed Olyde stallion the country were

oulders. Bathin night with water, as been boiled in toughening ath SPRING

I often find that off during the w ord becomes three ork in the spring pimples and boiled sulphur as a p prefer giving a tor sulphur has a tend impurities of the l mpurities of the hakin and matters ar proved. When boi however, I find sult edy. After the boi with dry flowers of soon scales over.

If a horse developer.

If a horse develop e shoulder, I fit a e collar and cut a the sore touches. pressure on the tend

Laborless Stab Editor, Farm and and Dairy of April 10 re. Mr. George R

Mr. George iner. I am perse: th Mr. Robinson. aning device the ving contrivance I have seen the machi . 1913. *****

the new will be gring the or week ordering pattern

7788 good skirrys a good takes pretty dit is alto satisfactory to is quite it good to be formed and the same over a V. panel. It is will be see, could be continued to the manual the natural the natural to be needed to be needed to be needed to good the same of the same

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MISSES

6972

ty lingerie appeal to front and so that can loose. The ulders that the lapin the Fapire i ribbon or is cut on a slipped of e provided seves could the gown to girls of or girls of

How to Treat Sore Shoulders H. C. Blair, Pictou Co., N. S.

The rush season is now here. Our The rush season is now here. Our work horses are being put to heavy work and mine, at least have had a long period of rest. The colts that have been trained during the winter have now to bear their share of the farm work. Extra attention must be given by the teamster for the next

given by the teamster for the next few weeks to the condition of the horse's aboulders.

First of all, I see that the collar fits properly. I prefer a cloth-faced collar to one that is leather-faced, es-pecially in hot weather. I consider the unnecessary to fill a collar with sweat pads. I plan to have collars that fit and then sweat pads are not seasoful

needed.

My horses, although in good condition, will be "soft" and shedding their
hair. They will perspire freely and
the collars will get hard with dirt and
hair. I clean them frequently. I remove the harness at noon and brush
off the grime collected on the horses'
of Lanark Co., Ont., recently when

paid particular attention to its value. Think of a man cleaning out for four cr five horses, 40 head of cattle, about a dozen loss, and have it loaded in the manufacture of the control of the state of the control of the state of the collar horses, and the state of the collar horses while the operator may stand with his white collar horses of the contemplates building to consider the value of this device. It is true by value of this device. It is true by value of this device. paid particular attention to its value.

value of this device. It is run by a small two horse-power gasoline en-gine, but a horse could be utilized to do the work with as good results. The apparatus is very simple and does the work better than anyone could with

work better than anyone could with shovel and brush. I consider the "Farm and Dairy" a reconsider the "Farm and Dairy" a very good paper. I am myself a breeder of pure bred Holsteins.—A Lanark County Farmer.



Which Stallion in Your Neighberhood Are You Going To Patronize? difference of 85 or even \$10 in the service fee is neither here nor there if we do little from the fee in the right kind of a circ for next season a crops of coils. How of what he will consider the right kind of a circ for next season a crops of coils. How of we have the pure of the country were our ideas on the value of a size more liberal. This one is owned by W. II. Manall, Kent Co., Ont.

aboulders. Bathing the shoulders at discussing the value of this crop with an alight with water, in which oak bark an editor of Farm and Dairy. "Two has been boiled, is the best treatment years ago I seeded my first field of toughening the skin of which I alfalfa,—one and a half acres. I sowed that first field on June 25, using the table state of one of the state of the state of one of the state of the sta

Serve. SPRING TONICS

I often find that after having a layoff during the winter, the horse's
blood becomes thick and will to
work in the spring, the skin print
in pimples and boils. Many farmers
feed sulphur as a preventative, but I
grefer giving a tonic of nux vonics
and sulphate of iron. I believe that
sulphur has a tendency to expel the and sulphate of iron. I believe that sulphur has a tendency to expel she impurities of the blood through the akin and matters are not greatly im-proved. When boils do break out, lowever, I find sulphur a good rem-edy. After the boil breaks I sfil it with dry flowers of sulphur and it with dry flowers of sulphur and it

on scales over.

If a horse develops an open sore on he shoulder, I fit a sweat pad under the collar and cut a hole in it where the sore touches. This relieves the pressure on the tender spot.

Laborless Stable Cleaning

Editor, Farm and Dairy,—In Farm "Yes, they have. Although alfalfa and Dairy of April 10 I see an article and Mr. George Robinson's stable canner. I am persenally acquainted with Mr. Robinson. I consider his claimig device the greatest labor-saving contrivance I have yet seen. have seen the machine in astion and

ed that first field on June 25, using a nurse crop of onts at the rate of one bushel to the acut at the rate of one bushel to the acut at the acut of the first and ran the larrow after the drill. Then I sowethe affair a by hand and harrowed again the alialis by hand and harrowed again to be acut of trouble, but as it was my first attempt it was my first attempt a wanted to make sure of getting the seed all

"Last year I got three cuttings from that small field, which aggregated nine tons.

from that small held, which aggregated nine tons.

'I have a lot of low-lying lend on my farm,'' continued Mr. Glenn, what I sowed the alfalfa on the high ground. I think it does have there. On our heavy clay soils great care care should be exercised in pastirely affall, the crowns split during alfalfa. If pastured too clock in the fall, the crowns split during the winter as the heavy soil heaves more readily than does a light self. "Have your neighbors attempted to grow alfalfa" every extensively grown in Lanark county, I know of several good plots in my neighborhood. This year I am going to sow more of it."

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Because these cattle have the size, vigor and constitution which can only be obtained in Western Canada.

70 HEAD

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In my stable you can see the Dam, Grand-dam, Sire and Sire's Dam of a Bull Calf I now offer for sale.

You know how important it is to see the dam of a bull you buy. You know how desirable it is to see as many of the near ancestors as possible.

Here Is Your Opportunity

One buil cair I now offer for sale (at a very low price, quality and breeding considered is out of Mercena of Campbelltown, 2357 lbs. butter as a 5yr-old. She is a dank of the route of the pour want-big veins another of the property of th

show owe in fact all through—and recently many.

There is a long of good breeding back of this calf. Come and see him and [1], a li you all about it. His sire is my own great Prince Hengerveld of the Come and see his dam (and blees—he a son of but the greatest bull in the line of the Pontiace—he a son of Pontiac Korndyke), and you would pay any price to get his stock.

ou know my bull now has more to his credit. He is brother to the 43-lbs.-butter-in-7-days cow.

I price this calf at only \$158. Come quick for him or some one else will have this great buy.

I offer another Bull Calf out of Queenie L., a 5.2% butter fat cow, 26.76 lbs, butter in 7 days. Sired by same great bull as above. Priced also at only \$159.

GORDON S. GOODERHAM

The Manor Farm - Bedford Park, Ont.

MARKET REVIEW AND FORECAST

Toronto, Menday, Ag-il II.—Warmer week. In grain there is very little movement was the first of the property o

maiting barley, 50: to 5.0; corn, 60: to specific peaks \$10: 81.06.

maiting barley, 50: to 5.0; corn, 60: to specific peaks \$10: 81.06.

Montreal quotations are: Oate, C. W. No. 2, 45% to 5.0; corn, 60: to 7.0; feed, 69.5%; barley, maiting, 75: to 76:; feed, 69.5%; barley, maiting, 76:; feed, 69.5%; barley, maiting

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r No. 21 Plow is one of the most popular general purpose plows on the maroday, and is guaranteed in construction and material. The month board is from best grade soft centre steel, and is especially hardened and pointsed seam is of high carbon channel steel, and has high curve to give ample clear. The handles are of selected stock, well braced and adjusted. Complete with coulder, extra non-account of the property of the country of the

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April 24

A Farm an exponent of ada. Bree all member Breeders' send items ers for publ

RECORD OF The following Ayrshire cows since my last

Evergreen

January Stanes

Bergreen

Oddity—27699— Ont., 19 003.5 lbs per cent fat in Dentonia's Ar Wells, 3,986.5 lb per cent fat in Dentonia's Archeskio Ju Tillsenburg, Ont fatt, 4,79 per cent fat in Hillsenburg, Ont fatt, 4,79 per cent fatt, 4,74 per cent fatt, 4,74 per cent fatt, 4,74 per cent fatt, 4,74 per cent fatt, 4,65 per cent fatt

Springhill W. A. Wells, 25,92,24 456 per cent fat. Violet of Hilly Violet of Hilly Violet of Hilly Springhold Springhold

"F 3 D Roller. It "Bissell"

ported by on the r centre be

the "Biss anle turns

ion to the design of fow at this cost are much to at any other was: Fresh killed 15c to 15c; live owl, 14c to 15c 23c.

EANS market for the twery clearly to longer contains the season is used to aver the season of the cost and the cost and

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or storage pur-n now on will tolesale dealers to 21c, deliver-country points ons at Montreal

24, 1913.

AYRSHIRE NEWS Farm and Dairy is the recognized exponent of the Dairy interests of and ada. Breeders of Ayrahire Cattle all members of the Canadian Ayrahire Dreeders' Association are invited to send items of interest to Ayrahire breeders' are for publication in this column.

RECORD OF PERFORMANCE TEST TO

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RECORD OF PERFORMANCE TEST TO

The following are the records made by
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Four-Year-Old Class

milli, 394 lbs fat. 45 per cent fat in 36 days. Pour Ven-Old Class days. Pour Ven-Old Class oddity-2799-Woodless Fros. Rothway. Oddity-2799-Woodless Fros. Rothway. Oddity-2799-Woodless Fros. Rothway. Oddity-2799-Woodless Fros. Rothway. Dept. 10 days. Arpegra fat-1296-Bedwin A. 19 Dentonias Arpegra fat-1296-Bedwin A. 576 per cent fat in 36 days. Milli, 36 dbs. Arpegra fat-1296-Bedwin A. 576 per cent fat in 36 days. Montrophysics of the state of

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"Bissell" is a 3-drum roller

3 DRUMS make the best Land Roller. It is easy to understand how the "Bissell" Roller with 3 drums and sur orted by 6 heads is a STRONGER ported by 6 neads is a STACHGEA IMPLEMENT than any 2 drum Roller on the market. With 3 drums the centre bearing is not needed. When the "Bissell" Roller is at work, the axle turns with the drums.

It costs more to manufacture the It costs more to manufacture the 3 drum Roller than the 2 drum, but you pay no more for the "Bissell" 3 drum and get BETTER VALUE FOR YOUR MONEY. You get heavier weight in the "Bissell" drums too.

The good points cannot all be told here. Ask your dealer about the "Bissell" Roller and do not be put off

with a Roller unless the name "Bissell" is plainly stencilled thereon.



Grass Seeder Attachment furnished if required. Write Dept. A fer free catalogue.

T. E. BISSELL CO., LIMITED, ELORA, ONT.



FAIRVIEW FARMS HERD

Offers

Bons of FONTIAC KORNDYKE, ready for service in the near future or younger, sons and daughter of SIR JOHANNA COLANTHA GLADI, whose three first daughters to Genficially tested average being an pounds such as junior two year-olds, and sons of RAG AFPLE KORNDYKE BY. Let present be the KORNDYKE BUIL the presents her KORNDYKE BUIL the world. Write me for the property of the control of HEUVELTON, NEW YORK

PRO-FAT MOLASSES MEAL

Dried Malt and Molasses for Dairy Cattle and Horses

Malted Corn and Molasses for Hogs, Sheep, Calves and Poultry

These feeds are both sold at a uniform price of \$28.00 per ton delivered to any station in Ontario. They are sold on THIRTY DAYS' TRIAL WITH GUARANTÉED RESULTS. They are the only COOKED feeds on the market which makes the PROTEIN AND FAT wholly digestible. They are fed as a whole ration or part with proportionate results.

When a Mother lacks nourishment for her new-born Babe, the Medical Man invariably prescribes a MALT PREPARATION, nothing else will produce the desired results. Our PRO-FAT WITH MOLASSES will do the same for cows, horses, sheep and calves which are not thriving, and the price is no higher than ordinary chopped feeds.

Dairymen have an opportunity here of procuring a meal, a ton of which is guaranteed to produce greater results than by any other feed on the market, manufactured or home grown.

Send us the name of the feed merchant in your neighborhood and we will mail you an order to get a ton from him; if he will not handle it we will ship direct to you (with guarantee) on THIRTY DAYS' TRIAL. Can anything be fairer than this?

Dairymen will never get the MAXIMUM AMOUNT of milk from their cows until they use PRO-FAT as a part or whole ration. Try it and be convinced. Analysis: Protein, 20 per cent., Fat, 5 per cent., Fibre, 13 per cent.

FEED PRO-FAT MOLASSES MEAL AND WATCH THE MILK FLOW INCREASE.

DEPT. F.

THE FARMERS FEED CO., LIMITED 108 DON ESPLANADE TORONTO, ONTARIO

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official ergan of The Canadian Hoistein Friesian Association, all of whose members are readers of the paper. Members of the Association are invited to send tems of interest to Hoistein breeders for publication in this column.

wwwwwwan HOLSTEIN OFFICIAL TESTS FROM MARCH IST TO 15TH.

HOLSTEIN OFFICIAL TENTS FROM
Thirty-six official tests were accepted
for entry in the Second of Merit during
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In the lundor four-year-old classes in full of the state
of 26.3 lbs. butter, which places her among the leaders in that devision.
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class. viz., 140. lue. butter.

1 8aims Ruferre Class.

1 8aims Ruferre Class.

59. lim. 9d.; milk. 50% bis.; fait 1662 lis., equal to 20.78 libs. butter. Owner D.

2 Mackeberre Cotwoold, Ont., lim. 6d.; milk. 648 libs., equal to 20.78 libs. butter. Owner W. J. Balley.

2 Milk 643. libs.; fait 1452 libs., equal to 1815 libs. butter. Owner W. J. Balley.

3 DeKol Beauty, 7415, a fay 1602, libs., equal to 1816 libs. butter. Owner Geo. Oliver, of 1816 libs. butter. Owner Geo. Oliver, 604, libs. 648 libs.; fait 1452 libs., equal to 20.50 libs. 1817 libs. 1817 libs. equal to 1816 libs. butter. Owner L. A. Evreut, 651 milk 647 libs. 1817 libs. equal to 1817 libs. 1817 libs. 1817 libs. 1818 l

Sold mile were been at the early of the control of

Cassel, Out.

Cassel, Out.

Library Company Cassell Cass.

1. Buffalo Girl Batter Maid, 1563, at 47. in. 187. i

to 39.9 bis, butter. Owner C. J. Pearce.
Ostrander, Out.
L. Lady Annie Johanna, 1507, at 13, 5 m.
L. Lady Annie Johanna, 1507, at 13, 5 m.
L. Lady Annie Johanna, 1507, at 13, 5 m.
L. Lady Annie John L. Lady L. Lady

1964.5 Bar. foat 6.80 lbs. equal to 196.6 butter. Owner Lakewice Farm. Brotte, Ort. Inner Lakewice Farm. Brotte, Ort. Inner Lakewice Farm. Brotte, Ort. Innerervial Wayne. 1950, at 197. Inn. 1961, milk 695.5 lbs. equal to 150° lbs. butter. Owner Lakewice Farm. Brotte, Ont. 1960.1 1960.2 lbs. equal to 110° lbs. butter. Owner A. O Bardy, in 6d; milk 899.1 lbs. fast 150° lbs. equal to 110° lbs. butter. Owner A. O Bardy, 197. lbs. fast 10.90° lbs. equal to 110° lbs. butter. Owner A. O Bardy, 197. lbs. fast 10.90° lbs. equal to 110° lbs. butter. Owner A. O Lincke, 197. lbs. fast 10.90° lbs. equal to 110° lbs. fast 10.90° lbs. equal to 110° lbs. fast 10.90° lbs. equal to 113° lbs. butter. Owner A. L. Raley, 80° lbs. equal to 113° lbs. butter. Owner A. L. Bley, 90° lbs. butter. Owner Amout Balky, 10° lbs. butter. Owner Amout Balky, 10° lbs. butter. Owner Amout Balky, 10° lbs. lbs. equal to 11.71° lbs. butter. Owner Amout Balky, 10° lbs. equal to 11.71° lbs. butter. Owner Amout Balky, 10° lbs.

20d.; milk 254.9 lbs.; fat 8.23 lbs., eq. al to 16.29 lbs. butter. Owner Elias Ruly, Tavistock, Dutter Two-Year-Old Class. Junior Two-Year-Old Class. 1. Grise da Pietle of Avondale, 15542, 2y, 5m, 34.; milk 44.84 lbs.; fat 15.82

Tavistock, Ont.

Tavistock, Ont.

1. Grainer Two-Year-Old Class.

29. 5m. 5d. Brile of Avondale, 1852, 18

20. 5d. Brile of Avondale, 1856, 184, 185, 184, 185

20. 5d. Brile of Avondale, 185, 184, 185, 184, 185

20. 5d. Brile of Avondale, 185, 185, 185, 185

20. 5d. Brile of Avondale, 185, 185, 185

20. 5d. Brile of Avondale, 185, 185

20. 5d. Brile of Avondale, 185, 185

20. 5d. Brile of Avondale, 185

20.

los. butter. Owner W. J. Bailey, Noter Ont. T. Schulling Maid Girl, 17483, at 19. 17d; milk 318.4 lbs.; fat 9.71 lbs.; equal to 21.4 lbs. butter. Owner Tig. Wood Mitchell, Owner Tig. Wood

Special Tests Made Eight Months Mitor Calving Calving

THE EDMONTON SPRING SHOW.

The following are a list of the award in the dairy cattle classes at the Edmonton live Stock Show, held April 2nd and 3rd:

Buil 2 years and over-left, Amos Book er. W. Lellon and the state of t

Jacombe, Toud swell, W. R. Wirson Lacombe, and the state of the state

ONTARIO CROP RIPORT.

The Ontario Department of Agricultur have cutario Department of the Control of t ONTARIO CROP REPORT.

injury to orchards as did also the ever-sleet storm a week later.

Live stock: A mild winter and abun-dance of fodder have been favora is is the wintering of live stock. Horse have commanded good prices and no rious disease has prevailed. Beef and dair;

MARKET

April 2

Beans here for hand picker pickers are w D.

Dairymen hi themselves to prices are not of with butter of the factoris manufacturing cheese have be meetings star quotations on 269 to 28c; et solids, 30c to 3 Dairy butter cheese new transport of the solids, 30c to 3 Dairy butter was a solids, 30c to 3 Dairy butter was a solids, 30c to 3 Dairy butter was solid to 3 Dairy b

Live stock que been stronger to week previous. week, however, ers, both large well filled up, on this week brisk. A feat strong demand tity of which Calves were het is always a sui son of the year in the oheese f in the oheese f Quotations as Choice export of butcher cattle, good, \$5 to \$6. \$6.15; common to \$5 to \$6; feeder \$3.50 to \$5.85; co \$3.50 to \$5.85; to \$3.75.

The demand for quite keen, ob \$75; poor

A few good ap ered, \$8.50 each Good bacon ho to 89.25 f.o.b. cor 87.75 87.75.
At Montreal pa up early last w prices dropped markets. A few high at 87.25 an down to 85.50 a not in such large as high as \$8 a from \$4 to \$12 ea

E. F. SUMMER

poorer qual \$50 to \$75: c

Editor, Parm a was all that coul was all that coul were paint. About the country of the country

ALBERTA AYRSHII
On Tuesday after meeting of Alberta cre was held in the Richardson's office Grounds, Calgary, f. ganizing an Albert to the need of such means of promoting means of promoting

4. 1913. 8.23 lbs., equal or Elias Ruly,

d Class. ndale, 15342, fat 13.82 Owner A e, 14719, at 12.96 lbs., eq. al t 2y. 4m. 61. lbe., equal to by Lakey.

a, 17690, at 13 fat 12.71 lt ... Owner L. A sch's Faforit 385.3 lbs.; 121 butter. Owner 17566, at 3 fat 11.47 ls. Owner A. C.

ly. 11m. 204 equal to 1 % Bailey, Nober is, at iy. 1 m lbs., equal to Tig. Word

8, 14618, at 37 08 lbs., equal of J. M. \az 2y. 0m. 2sd equal to 112 view Farm at 1y. 11m. 2 lbs., equ., M. L. Haley. 14993, at 2y fat 8.16 be Owner C J

16383, at 2) at 8.12 he. nor J. Leuss lonths After Class, 12436, at 2 at 9.65 He wher J M Clas. 2y. im. 5d s., equal to VanPatter.

Secretary. SHOW. the awards the Edmon ril 2nd and

Amos Hook onton; 2nd atine Hoy years by

odyke Her Lacon bert o Reg Alta. Ind liking years lst. Winslow

8 months broke 2nd Window Window st, Fuster Pearl of rd, Vood slow.

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MARKET REVIEW AND FORE-CAST.

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cheese new twins sell at 18½°C to 18c; sharp, 18½°C, oil delress, twins, 56c to 18c; sharp, 18½°C, oil delress, twins, 56c to 18c; sharp, 18½°C, oil delress, twins, 56c to 18c; sharp, 18½°C, oil delress, 18

Good bacon hogs continue firm at \$9.15 to \$9.25 f.o.b. country points. Sows go at \$7.75

At Montress packers and butthers filled up early last week, and consequently markers and to the final up early last week, and consequently markers and the filled up early last seek, and consequently markers and the filled up early last seek and the filled up early 18 550 a cett. Cows and build early 18 550 a cett. Cows and build an ingress supply, and ingress were not in such large supply, and ingress and large supply as filled to 85 each.

as nign as sa evet and spring imms from 18 and 18 and called the sea for learner ordinary supply at 150 to 8 cach.

I. F. SUMMERS MOSTERN SALE

II. F. SUMMERS MOSTERN SALE

SIGNATURE AND SALE

SALE AND SALE AND SALE

The sale AND SALE

ALBERTA AYRSHIRE BREEDERS' CLUB On Tuesday afternoon. April 9th, a meeting of Alberta Ayrshire cattle breed of the Arrows of the County canning an Alberta Ayrshire Breeders' generate were unanimous as to the need present were unanimous as means of premoting good fellowship and

the general interests of the Ayrahire breed of cattle, by encouraging the entry of cows and helfers in the Record of Performance Test, discussion of the best consistency of the properties of t

Sec. Treas. How land Kees

MORE LIBERAL TERATHENT FOR

MORE LIBERAL TERATHENT FOR

The Execution of States and Later

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From Mr. W. G. Ellis, of Toronto, dealing,

The Execution of States

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The apportion apportion and the states are the states ar

Holstein \$1,200.00 Shorthorn 2,000.00

Ayranire	1,200.00
	1,150.00
Abardoon Asses	
Aberdeen-Angus	960.00
	900.00
Guernsov	
Gullows	500.00
	500.00
Breed Statistics for	1010
Destining for	1912
Registrations	
Holstein Shorthown	7.104
Shorthorn	. 1,109
Annah	6,681
Aberdeen-Angus	1,707
Accountment willing	946
Guernsey	
Challeman	206
Shorthorne by tor	exceed tha
Shorthorns by 423, and also	of all the
st combined by 212.	

st	combined	by	212	with	STRO 4	or will	
	Transfers	in	Here	1 Boo	k Sho	wing	
	Con	nme	rcial	Acti	vity		
						6,705	
	Shorthorn					2,763	
	Ayrshire					1.487	
						301	
	Aberdeen-	A.ng	us			334	
						391	
	Guernsey					39	
	Galloway					94	
10	eHolstei	in f	rane	Forms	eman d		

Note.—Holstein transfers exceed that of all the rest combined, including the Shorthorns by 1,436 Annual Receipts Also Showing Commercial Importance

	Holstein \$15,321.96	
	Shorthorn	
	A week (s. 10,987.32	
	Aberdeen-Angus 2,641.33	
	Jorgan 1,573.66	
	Jersey 1,267.36	
N	ote.—Holstein receipts exceed that	
ho	ob receipts exceed that	N
пе	rest combined by 1 \$2,837.29	6 1.
	Membership	
	Holet- Membership	
	Holstein 1,475	

Ayrebire 988
Hereford 169
Aberdeen Angua 159
Aberdeen Angua 159
Order 200
Order 200
Note—The Holstein membership of the price year was 1,305 showing a 20 per cent increasing the price year was 1,305 showing a 10 per cent increasing the price year was 1,505 showing a 10 per cent increasing the price year.

In this we have not figures to cover all breeds:
In this we have not figures to cover all breeds:
In this we have not figures to cover all breeds:
Shorthorn balance on land, \$14.43, 31

Morey balance on hand... 1,60, 30

Arrabire balance on hand... 1,60, 30

Arrabire balance on hand... 1,60, 30

Arrabire balance on hand... 1,60, 31

Gersey balance on hand... 1,60, 32

Herry balance on the Holater of the Hola

AYRSHIRES

Ger one femos cold fluil, its for service.

His dam's B. O.P. Syr-old record, 5,000 Bs. mili and 357 lbs. butter fat. His sirve Bs. mili and 357 lbs. butter fat. His sirve Bs. mili and 357 lbs. butter fat. His sirve Bs. mili and 357 lbs. for coord 5,058 Bs. mili and 357 lbs. butter fat. His sirve Bs. mili and 35 lbs. mili and 4,55 lbs. mili and 4,55 lbs. mili and 5,55 lbs

AYRSHIRE CATTLE AND YORKSHIRE PIGS
For Sale—Ayrshire Caives and Bulls,
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for Sale—Ayrshire Caives and Bulls,
sale for the control of the cair of the cair
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sale of

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both seems, Imported or Canadian bred, for sale.

Long distance 'Phone in house.

R. R. NESS, HOWICE, QUE.

TANGLEWYLD AYRSHIRES ANGLEWYLD AYRSHIRES

3 YOUNG BULLS (Sept. and Oct. 1912),
street by Boyal Star of Bonnie Bras. 2674.
27 of Genema & Presr-older Alfalfate
press of the milk, 46.69 fbs. fat. average test. 51 cm. 118, 46.69 fbs. fat. average test. 51 cm. 118, 46.69 fbs. fat. average test. 51 cm. 118, 52.69 fbs. fat.
Milk, 55.01 bbs. fat. fat. 118, 52.64 fbs. fat.
WOODISSE BEOS. BOTHSAY, ONT

O. T. Station, Dayton

AYRSHIRE BULLS

AYRSHIRE BULLS.
Two choice bull caires for eale, from
B.O.P. dams. Sired by a son of Queen's
Mossesger and Dewdrop of Menie, qualifiller with 9.78 lbs. milk and 60,46 lbs.
The with 9.78 lbs. milk and 60,46 lbs.
The county of Ingleside with 53,00 lbs. fat as a 4-year-old, and Kaite,
with 50,00 lbs. milk, 350 lbs. fat. Write
for description and prices.
LAURIE BROS. MALVERN, ONT.

Ravensdale Stock Farm

PHILLIPSBURG, QUE. Special offering of Bulls, fit for service.

W. F. KAY, M. P., Proprietor.

MISCELLANEOUS MAXWELTON FARM

Has some of the BEST JERSEY CATTLE in the land. Also BERKSHIRE SWINS. Make your wants known to the Manager,

MAXWELTON FARM STE. ANNE DE BELLEVUE QUE.

Clydesdale Fillies and Stallions We have a choice salection, prise-winners,
and stook of approved
comformation and the the winter
comformation and the the wise for decomformation and the the wise for decomformation and the the wise for decomformation and of successful experisuccess to receive and importer.

Smith & Richardson, Columbus, Ont.

Breeder's Directory
The Feeder's Corner is for the use of our subscribers. Any instead are invited to ask questions, of each items of interest. All quee thousand items of interest. All quee thousand items of interest.

YORESHIRE PIGS, all ages, either sex. Choice Young Boars, fit for service. Also Sows of all ages, bred and heavy with pig.—H. C. Benfield, Woodstock, Ont.

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

FOR TAMWORTH SWINE-Write John W. Todd, Corinth, Ont. R. F. D. No. 1.

HOLSTEINS

LYNDEN HERD

High Testing HOLSTEINS For Sale High results invisiting for service, one a son of Rooted Lady De Kol. 27.86, and all sixed by a son of Lalu Ghaser. E.T. Alse Middle Called Ca

Lyndale Holsteins

We are now offering Bull Calves from 1 month to 7 months old. All are from official record dams and sired by some of of the greatest bulls in Canada.

Brown Bros., Lyn, Ont.

RIVERVIEW HERD

9 Young Bulls, from 2 to 18 months, sired by King Isabella Walker, whose sister, 3 nearest officially tested dams, a sister of his dam, and two sisters of his circ average for the eight 50.34 lbs. from B. O. M. and B. O. P. dams.

P. J. SALLEY. - LACHINE RAPIDS, QUE.

Two Holstein Bulls

Fifteen months old, one from a twenty-one-pound cow. Good individuals. R. F. HICRS, NEWTON BROOK, YORK CO.

North Star Holsteins Bulls ready for service, from R. O. M. dams, sired by a son of Natoye De Kol lbs. in 7 days, 106.23 lbs. in 7 days, 106.23 lbs. in 7 days eight months after calving — largest record in Canada. days eight months after barrens record in Canada. Also Females, any age, excepting heifer

W. STEWART, · · · LYN, ONT.

BULL CALF FOR SALE

BULL CALF FOR SALE

SIRED BY INKA SIVIA REITS POSCH

Webbase the only buil in Ganada to sire.

Webbase the only buil in Ganada to sire.

Webbase the only buil in Ganada to sire.

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How to Run an Auto FREE FOR EXAMINATION

Are you interested in automobiles? If so, let us send you on seven days' free trial—without deposit—this big, new 512 page illustrated manual, entitled

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DAIRY FARM Offers to HEIFERS, rising 1 yr. old.
19 HEIFERS, rising 2 yrs., 5 Bulls,
rising 1 yr. old, sired by son of
PONTIAC KORNDYKE
Also Bull and Heifer Calves. Purnlehed in pairs not akin. Write.
Phone or come and inspect. WM. HIGGINSON, INKERMAN, ONT.

Elmridge Farm Offers Hichly-bred Young Holstein Buil, born Richly-bred Young Holstein Buil, born Jr., 122, aired by Count Segia Walker Ply 14, 122, aired by Count Segia Walker Ply 14, 122, aired by County 14, 122, air



YOUNG COWS AND HEIFERS HOLSTEINS of different

Safe in oalf to a son of the great bull De Kol the 2nd's Butter Boy the 3rd. Also Yearling Heifers. and Heifer and Bull Calves for spring delivery. Write for

W. W. GEORGE. . CRAMPTON. ONT.

Herd King SEGIS PIETERTJE" The dams of these two sires average over 32 lbs. for 7 days, official test. Get your next young bull from my herd-best by rest. One animal or carload lots (Farm only 40 ... ods from station)

or carload lots (Farm only 40 Lods from station Write, L. H. LIPSITT, Straffordville, Oat. Proprietor, Forest Ridge Holstein

Ourvilla Holstein Herd Bulls of servicesable age all sold. If Parameters are all sold servicesable age all sold. If advise and them from here we would advise and them from here we would advise and the servicesable and the servicesable colaraths Sir Abbekirk and from 22.17 calves left. Both are by Dutchland and 23.06 lbs. 4year-olde Grand indi-viduals 4 months old. LAIDLAW BROS. Ayimer, Ont.

MAPLE GROVE, CRESCENT RIDGE and WELCOME STOCK FARMS

and WELCOME STOCK FARMS
Make a special offering in a grandson (in
for service) of the \$1,000.00 kine of the
futer Kings, out of a 2056.b. 3-year-old
Also Buil Galves, sired by our greak King
Lyons Hengrewick, who is beyond dispute
the Dominion, having more over 30 lbs.
butter and over 100 lbs. milk in a day
near ancestors, and being closer related
are an accestors, and being closer related
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H. BOLLERT, R.R. NO. 1. TAVISTOCK, ONT

HAMILTON HOUSE

DAIRY FARM

The Home of Lulu Keyes, the Werld's Record Senior 2 Year Old Cow
WE SELL BULLS AND BULL CALVES ONLY and offer now

A Bull Ready for Service

Write or come to see him. His Pedigree showing High Records

THE PRICE IS RIGHT

D. B. TRACY

COBOURG, ONT.

HOLSTEINS

HOLSTEINS FOR SALE

HOLSTEINS FOR SALE
FERDALE STOCK FARM
2 Good Korndyke Bulls left, also 1913
Calves, which will complete our last lot of
Korndyke K. Schiliaards whose beifers
grade belfers for sale. This lot is nicely
marked and in fine condition. Will fresh
from now on. Come and see them! FIERHELLER BROS., MT. ELGIN, ONT.
Bell 'Phone 167 R. 12. C.P.R. Station.

LAKEVIEW HOLSTEINS

LARLVIEW HOLSTEINS
We are now testing some of the
daughters of Count Hengeweid Fayne
De Koi, and they are running from
10% has with first oalt to 30 has with
10% has with first oalt to 30 has with
order to make promise before that we
are offering at half their value, in
order to make room. They are sired
by Dutchland Colantha Bir Monn. Come
to the farm and see the dame of these
to the farm and see the dame of these
De Foster. BRONTE, ONT.

Elmdale Dairy Holsteins

Elmdale Dairy Holsteins
POR SALE—Two choice Buil Calves,
light colored, sired by Paladin Ormsby,
sire of 30 R. O. M. daughters. Syear-old,
sired of the sired by Paladin Ormsby,
sired of the sired by Paladin Ormsby,
No. 1. Dam. R. O. M. 485 be mills, 192 be
butter in 7 days.
No. 1. Dam. R. O. M. 485 be mills, 192 be
R. O. M. 48 J yrs. 2 mos. 435 be mills, 1621
line butter in 7 days.
No. 8. Dam. R. O. M. 485 be mills, 1621
No. 8. Dam. R. O. M. 485 be mills, 1631
n. M. 50 be mills, 1636 be butter in
7 days at 2 yrs. 1 mo. old. For prices write
PRED CARR. — 80X III, 83. T. HOMAS.

CRACFLAND If the experience Sires "FINDERN KING MAY FAYNE" HOLSTEINS that the cattle 1 have, I would compete with the best R.O. sires only. lias Ruby, R.R. No. 5, Tavistock, Ont.

FOR QUICK SALE

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Two Registered Holstein Friendam bull
calves, 1 month old, from richtly bred
dams, filted by King Rengerveld Korndams, filted by King Rengerveld KornKorndyle, and whose sire is Hengerveld
Korndyle, not whose sire is Hengerveld
Korndyle, notely marked, more white
Online are nicely marked, more white
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animals should be worth \$100 each concidering their rich breeding. Write or
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A few sons of Korndyke Veeman Pontis for sale. Also a number of Cows and Heifers bred to him. Come to Tillsonburg if you want to buy Holsteins and I will see that you get them. Farm, North Broadway, Tillsonburg.

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Offers for sale choice Holstein Cows and Heifers at reasonable prices. 30 head to select from.

Bulls in Service Imperial Mercedes Posch 8349 King Segis Pontiac Koningen 15662

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Avondale Stock Farm A. C. HARDY, PROPRIETOR. HERD SIRES

HERD SIRES

Prince Engerveld Pietle, 529 (56,527).

Dam, Princess Hengerveld De Roi,
Dam, Princess Hengerveld De Roi,
A. R. O., 31.82.

Highest record daughter of Hengerveld

King Peotifies Artis Canada, 18,421 (73,26)

Birs, Ring of the Poortiess.
Dam, Pontiac Artis, 31.7 lbs, butter 7

Daughters of Rengerveld De Roi,
We are offering bulls from these great
strees and high record deams, and also a
tires and high record deams, and also a
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B. LORNE LOGAN, Mgr., BROCKVILLE
B. LORNE LOGAN, Mgr., BROCKVILLE

their right to receive a prize list as liberal as that offered to the Shorthorns. We would therefore respectfully request of which the state of the liberal request. "Signed on behalf of the liberal right and association of Gandad." In a Association of Gandad. "It is a state of the liberal right and builty readers are invited to state of the liberal right and liberal rig

HOLSTEIN OFFICIAL RECORDS FROM MARCH 16TH TO 31ST.

ber aany was ber abendard previously see Mature Class.

1. Aaggie Dekol. 7292, at 69. 9m. 29d.; milk 643. lbs.; fat 20.6 lbs.; equal to 2.0 lbs.; fat 20.6 lbs.; equal to 2.0 lbs.; fat 20.6 lbs.; equal to 2.0 lbs.; fat 20.6 lbs.; equal to 2.2 lbs.; fat 20.6 lbs.; equal to 2.3 lbs. butter. Owner Dr. 1. de L Harris.

2. Belle Bewdrop and 5639, at 39. 3m. 10d.; milk 561 lbs.; fat 1879 lbs.; equal to 2.3 lbs. butter.

2. Belle Bewdrop and 5639, at 39. 3m. 10d.; milk 561 lbs.; fat 1879 lbs.; equal to 3.4 lbs.; butter. Owner Laddaw Bress. 10d.; milk 501 lbs.; butter. Owner Laddaw Bress. 43, lbs.; butter. Owner Laddaw Bress. 43, lbs.; butter. Owner Laddaw Bress. 10d.; milk 501 lbs.; fat 352 lbs.; equal to 2.4 lbs.; lbs.; fat 352 lbs.; equal to 47.5 lbs.; fat 545 lbs.; equal to 47.5 lbs.; fat 545 lbs.; requal to 47.5 lbs.; fat 545 lbs.; equal to 47.5 lbs.; fat 545 lbs.; requal to 47.5 lbs.;

Fourteenday record, at 5c and 5at, Fourteenday record, at 5c and 5at, Fourteenday record, at 5c and 5at, Fourteenday record for the fourteenday record for fourteenday record fourteenday record for fourteenday record for fourteenday record fourteenday records fourteenday record fourteenday record fourteenday reco

ile. butter: Owner Jan. Bettle, Burgesser Wille, Ont.

18. Lillie Mundella. 3746. at 117. 0m. 154: 18. Lillie Mundella. 18. Lilli

Thirty-day record, at 4y. 10m. 5d.; m: 275.0 lbs.; fat 36.76 lbs., equal to 168.45 || butter. Owner Colony Farm, Coquitla

butter. Owner Colony Farm. Cocquiring.

2. Belles beweren 6th. 1033. as 49. y.
56d.; milk 5587 lbs. fat 1758 lbs., equ.
56d.; milk 5587 lbs. fat 1758 lbs., equ.
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3 Runy milk 405 lbs. lbs. bat nro. C. Flatz and lbs. butter. Owner D. C. Flatz and lbs. butter. Owner D. C. Flatz at 49. llm. 264. 4 Wedo Princess, 11899, at 49. llm. 264. 4 Wedo Princess, 11899, ibs. equal to milk 493.1 lbs. fat 157 lbs. butter. Owner Issac Holland. 1972 lbs. butter. Owner Issac Holland. Comparishe data. Queen, 9370, at 49. 9m. cased lbs., equal. milk 693.1 lbs. fat 15 70 lbs. equal ...
1977 lbs. butter. Owner base Holledt.
Brownswills. Ont.
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Brownswills. Owner Silv. at 4 70.
10-21 lbs. butter. Owner Monro & Laviston.
10-19 lbs. butter. Owner Monro & Laviston.
10-19 lbs. butter. Owner Daniel.
10-19 lbs. outer. Owner Daniel.
10-19 lbs. Owner Owner Daniel.
10-19 lbs. Owner D

A South Pourt Venr-Old Clinas.

1. Minnie Poetees, 1983, at 3y, 0m. 25d.

min Minnie Poetees, 1983, at 3y, 0m. 25d.

min Minnie Poetees, 1983, at 3y, 0m. 25d.

min Minnie Poetees, 1983, at 3y, 0m. 25d.

Southlam, B. O.

Southla

1823 1 lbs.; fat 61.92 lbs., equal to 72.65 lbs butter. Owner D. C. Flatt & Son, Heanii ton, Ont. 5. Ferndale Calamity, 11677, at 49, 4m, 19d.; milk 487.5 lbs.; fat 14.61 lbs.; equal to 18.26 lbs. butter. Owner John C. Brown, Stamford, Ont. Senior Three-Year-Old Class.

to 12% blan 1941c.

Senior Three-Year-Old Class.

Senior Three-Year-Old Class.

Senior Three-Year-Old Class.

A control of the control of the

butter. Owner Lakoview Farm, Bronie Ont. 22 Zarlida Glothilde ård, DeKol, 1467: a 3. Zarlida Glothilde ård, DeKol, 1467: a 5. 9 m. 17d. unit. 463; Lie fat 147 lie fat 17d. li

cattle have be in good health the part of fee the part of fee the part of more than suffi hardly up to the Straw also

April 2

Resessans **OUR FA** Essessasas

PRINCE CARDIGAN

CARDIGAN, A), been cold and h week, with a li now turned wa will help dry th up badly this some roads are culverts. Feed o Stock wintered w to be low in pric fat cattle, 5c live, ter, 28c to 30c; e

COMPTON, Apri-weather now but lot of sugar is be will hardly be tyears. Beef is ve a pound for good for poorer ones. for feeding is bri-Butter, 25c to 28c H. G. C. O BRITANNIA HE

BRITANNIA HEI roads are in very result is small m ton: straw, 86 a t butter, 32c a pour potatoes, 75c to 86 \$2.55 a bushel; b J. A. D.

J. A. D. WELLINGT PERGUS April I cold and wet. T The windstorm of the worst ever kn deal of damage to Hired help is sea prices for cattle a but horses are che been for many yea

but horses are che
been for many yea

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HARROW, April 14, slowly. The roads is almost impassable. commenced plowing a is sown with oats. was shipped last wee and corn is plentiful contracting for tom canning factory—W. ESSEX C

, 1913.

at 4y, 9m lbs., equa-

11279, at 4) t 14.86 lbs. wner Danie

14678, at 4; t 14.31 lbs

0168, at 4, 13.03 lbs. wner D. C

y. 0m. 21d. , equal te

7975, at 49 16.31 lbs. wner D. C.

at 4y. 4m L. equal to lel Lemon.

973, at 4y 15.35 lbs.

16d.; milk to 78.65 lbs. on, He.mil

at 4y, 4m lbs.; equal John C

lass. 27. at 3y 1bs., equal L. de L t, 13477, at 14.69 lbs., ner Isaac 818, at 3y 13.95 lbs. nor C J

bs., equal Monro & at 3y. 9m. bs., equal bs., equal

3, at by 11.43 lbs, ner Benj 3y 9m 68, equal

3y. 3y. im 4m. 15d. equal to Lawless. 0m. 18d; equal to Smith a s. 2y. 10m equal to M.; milk 82.11 ibs Broote

14887, at 4.71 hs. Colony

6, at 2y. 185 hs. ier Jaz

5370. at 0.73 the. H. Van

at By 169 Hea. F Henj m. 5d ; to 12.22 Coquit

lass.

to 108.45 || to Coquitia cattle have been well cared for and are in good health. A tendency is noted on more than the cattle much children from the their cattle much children from the their cattle much children from the their cattle much children from the control of the area of the cattle from the control of the cattle from the country of the little from the cattle fro at 4y. 9: y. 9m. 16c 8. equal idlaw Bro y. 8m. 19d qual to 20 % latt & Son y. 11m. 26d to se Hollend

Meereeeeeeeeeeeeee OUR FARMERS' CLUB Correspondence Invited

Reseaseseseseseseses PRINCE EDWARD ISLAND

PRINCE EDWARD ISLAND

CAHDIGIAN. April 14.—The weather has been coid and backward during the past been coid and backward during the past of the past o

OUEBEC

OMPTON CO., QUE.

OMPTON CO., QUE.

OMPTON, April II.—We are having fine weather now but very bad roads. Quite a possible of the process and process and process and process are processed on the process of the process

ONTARIO

B. U. C.

BRITANNIA HEIGHTS CO. ONT.

BRITANNIA HEIGHTS April 12.— The rouds are made the result is small mayor shape, and the result is small mayor shape. and the result is small mayor shape. The product of the prod

but horsee are clean long still keep upbeen for many years.—W. And Rey have
been for many years.—W. and Rey have
been for many years.—W. work yet done
on the land April M.—Ne work yet done
on the land April M.—Ne work yet done
on the land the land the land the land the land the
much water. There is quite an agitation
in this county for better roads. Experts
would increase the draw permanent road
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times the population it now has.—D. N. A.
HARROW, April 14.—The soil is drying
slowly. The roads in some sections are
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ANOTHER AVENIER HERD ESTAB-LISHED.

A herd of pure bred Ayrshire cattle is being stablished by Mr. Frederick T. Howell to the having recently purchased four he having recently purchased four from Mesors. W. W. Ballantyne & Sons, of the Neidaukh Farm, Straford, Ont. of the Neidaukh Farm, Straford, Ont. farmers that entered his farmer greater farmers that entered his farmers with the price Farmer and Dairy's Price Farmer and Dairy's not that the cattle is a parsieworthy one that any well be followed by many others classwhere

. . The Louden Reason Why

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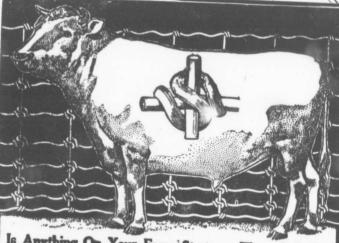
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Your Milk but--Raise Your Calves as well

Caldwell's Substitute Calf-Meal

makes this possible and shows a profit of 100 per cent.

Every farmer and stockman knows that the sale and slaughter of practically newly born calves is a tremendous waste. Both would have raised or vealed up their calves long ago, but for the reason that this meant the consuming of all the whole milk produced. So they killed their calves and sold the milk as you have been doing for years and like you they have often wished for a substitute for whole milk, They have said so-your neighbors have said so and you have said so, too.

Hence Feed Manufacturers have been striving for years to find a substitute for whole milk as a Feed for raising and vealing up calves-

The market was as wide as the world and of course dozens of fake "Feeds" were rushed to the farmer and stockman-

But not a single one of these approached the nutritive qualities of whole milk as a feed for calves: until Caldwell's Cream Substitute Calf-Meal was placed on the market - a prepared feed so similar to whole milk that actual analysis shows it to contain almost the same nutriment and as such is guaranteed to the Canadian Government. Here's the certified analysis of the finished product:

> Protein 19% to 20% Carbo-hydrates56% Fibre5%

Caldwell's Cream Substitute Calf-Meal contains Linseed, Wheat, Oat, Corn, Locust Bean, Pea and Molasses Meal. We print the ingredients of our Calf-Meal as well as the guarantee on every tag.

Now you understand why we saykeep on selling your cream or whole milk, but raise or veal up your calves. Our Calf-Meal is sure to become as widely used and as much relied on as Caldwell's Famous Molasses Meal.

Tell your Feedman that you intend to raise your calves or veal them up. It will pay you handsomely to do so. Because it's cheaper to raise your dairy herd this way than to buy-and you might as well keep the calves you want to sell long enough to make something out of them.

With Caldwell's Cream Substitute Calf-Meal this is easy, economical and profitable.

N. B.—If your Dealer cannot supply you write to us, giving his name and address.

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