Ninth Annual Dairy Magazine Number

FARM AND DAIRY RURAL HOME



BETTER FARMING
AND CANADIAN
COUNTRY LIFE None

Toronto, Ont. April 5, 1917



IN PASTURES GREEN-A SCENE IN WESTERN ONTARIO

WE WILL
HELP YOU
GET THIS CROPP AND LABOR

Why not get 20% MORE GRAIN Per Acre in 1917

"More grain—more grain"—the Empire Calls. This year, 1917, must be one of supreme effort in the British Empire. You Ontario Farmers are called upon for a 20% increased grain crop. It is sorely needed. You can get it without extra labor. Let brain power help you out.

Fan 3 Bushels of Grain to Get 1 Bushel of Seed

"What's the first thing to do to get your seed right?" a successful Ontario farmer was asked. "Use the fanning mill," said he. "Alright, then what?" "Use the fanning mill," he replied. "Well, and after that?" "Use the fanning mill," was the answer.

Prices for your grain crop will probably be abnormally high this year. Are you willing to help the Empire in her life and death struggle by producing more food stuffs?

Remember, you go through practically the same labor in sowing weak, dirty seed that you do in sowing clean seed. And—remember—practically the same labor at Harvest. CLEAN SEED—there's the answer to the 20% increase.

Perhaps you have not been able to get pedigreed seed. If you can get it—pay the price. It will pay YOU again and again.

Otherwise—we suggest this: Go to your granary, select three times the amount of grain required for seed purposes. By use of the fanning mill, clean it once—clean it twice—clean it three times, or until you have just sufficient for seed purposes. If you want 100 bushels of seed you should fan it out of 300.

Use proper sieves and plenty of wind in the mill, and the onethird part remaining will be the largest and plumpest seeds which are naturally the most vigorous. Vigor in seed is just as important as in live stock.

This may seem troublesome. Perhaps it is. But do it for your Country's sake. Do it for those gallant Canadian lads in France. If for no other reason do it because it will pay you more handsomely than anything else you can do.

Two bushels of oats will sow an acre. The extra return from good seed will be from 5 to 10 bushels per acre—decidedly more in some cases. Supposing it brings only 60e, per bushel. There's a pretty safe extra \$6 per acre—with practically no extra labor either at seeding or harves.

Twenty per cent, increase from clean seed is not guess work. It's a proven, scientific fact.



ONTARIO

Just think of the enormous extra tonnage that will go to help defeat the barbarous $\operatorname{Hun-from}$ $\operatorname{Ontario}\colon$

Yield 1915, Bushels.		20%	Increase Bushels	1917.
(heat 28, ats 120, arley 19, cas 20,	217,952 Oats 393,129 Barle	y		33,812,352 144,261,542 23,871,755 24,516,588

A mighty stroke for the Empire. Remember, its a food struggle as much as a military one. The best fed Empire is the one most likely to win.

More labor is coming—we are getting you thousands of enthusiastic helipers from amongst the business men, retired farmers, high school boys, town and city women, etc., etc. Last week's advertisement in this paper told you all about it.

Get the Smut Out of Your Oats

Many tens of thousands of bushels of oats are lost annually, due to the ravages of smut. This waste can be largely eliminated by proper treatment of the seed.

Secure 1 pint of formalin for every 20 to 30 bushels of oats required for seed purposes. Dilute with 42 gals, of water and use a barrel in which the bags of grain may be immersed for 20 minutes. Spread out to dry and then place in new bags or in bags that have been treated in a similar manner and thoroughly dried, thus preventing recontamination.

Consult the nearest District Representative of the Department of Agriculture it you are not familiar with this work, or communicate with the Department of Agriculture at Toronto. We are keen to help you with labor—with suggestions—with the names and particulars of those who have seed for sale—with advice on any point that may be troubling you. Don't hesitate to write us fully at any time.

Ontario Department of Agriculture

SIR WILLIAM H. HEARST, Minister of Agriculture

> Parliament Buildings TORONTO

The Empire calls for bigger GRAIN CROPS from ONTARIO

DON'T PUT UP WITH THIS THIN CROP



JAS. R.

VOL.

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A. L'THOU decreas

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Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land.—Lord Chatham

TORONTO, ONT., APRIL 5, 1917

The Milking Machine --- An Experience Meeting

Eighteen Months Experience JAS, R. ANDERSON, Prince Edward Co., Ont.

FE installed a Sharples Milker and used it about one year and a half before our barns burned. We found it quite satisfactory. We are installing a new Sharples Milker now. Possibly the Sharples costs more to instal than any other make, but once you get it in you have an outfit that will cost you very little to keep in repair. We used ours one year and a half and the cost for repairs was practically nothing.

We had four single units and two men would milk 36 cows in about one hour. If we were milking by hand it would take five milkers to milk them in one hour. A man that keeps 10 cows or more would make no mistake in buying a mechanical milker. Any dairyman, however, who is not a good, clean milker by hand, and is inclined to he careless, should never have a mechanical milker; above everything else the machine must be kept perfectly clean and well looked after in every way,

When we installed our milker we had a contract with the Belleville Creamery to furnish sweet cream from the creamery for table use in their city trade. We never had a complaint after we installed the milker. But we took every precaution we possibly could to keep everything per-

Machine Milked Champions G. A. BRETHEN, Peterboro Co., Ont.

LTHOUGH virtually compelled by present conditions to instal a milker (or materially decrease my herd, a sacrifice I was loth to make after breeding, developing and specializing on a couple of families that were proving very promising), I did not do so without careful con sideration of the possible injurious effects on a herd of valuable producers, the possibility of decreased production and the question of any material saving of time in an average herd of 12 to 20 cows. I therefore took every means available to not only learn something of milkers in general. but also of the virtues and defects of the different machines upon the market. After a careful can-

vass of the experience of several well known breeders in whom I had every confidence, who were using different types of machines, to my surprise I learned with but one exception every man was an enthusiast for the particular make of machine he was working with. It would seem that when properly operated, almost any of the different machines on the market will give a good account of themselves if the proper care and attention is given to keep the machine in proper working con-

While our experience with milking machines is too limited to say that any particular machine can claim superiority over all others, we have found the one we are using, the Empire, doing the work as satisfactorily as we had hoped for, and, in our judgment, reaching a state of perfection in performing the work it is intended to do quite approaching that of our other farm machines that we have long looked to as an absolute necessity upon the farm. While 10 months' experience with the milker we believe to be rather short to go wildly enthusiastic over a machine, I may say that as several of our cows have now freshened for the second time after having been milked with the machine for a season, we are in a fair way to judge of effects upon the herd.

No Injurious Effects Whatever.

In the past year we have had no lost quarters or serious cases of garget, etc. On the contrary, we find the cows' udders in better shape than a year ago. While, with one or two exceptions, we



CHOICE HOLSTEINS-MECHANICALLY

MILKED.

These three cows are descendents of "Rauwerd," the 29,000 pound cow. Above is a daughter of Rauwerd, with a record of 34.06 lbs. of butter as a Fauwerd, with a record of 34.08 lbs. of butter as a s. 3-yr.-old; to the left a daughter's daughter with 27.77 lbs. as a sr. 3-yr.-old, and to the right a daughter's daughter with 30.10 lbs. as sr. 3-yr.-old. These "ows are all owned by Q. A. Brethen, Peterbero Co., Ont., who does not hesitate to use a mechanical milizer on them. hesitate to use a mechanical milker on them, Other breeders of pure bred cattle testify in this issue of Farm and Dairy that the mechanical milker is now an approved success.

found the cows' production showing an increase after installing the milker, we have this season been getting splendid results as the first five we have had freshen in official test have averaged over 30 lbs. of butter each (three of them threeyear-olds with second calf), and all have milked above 92 lbs. in best day. The five averaged over 96.5 lbs. in highest day. As some of these had been milked by hand as well we were in a good position to judge of the efficiency of the machine. Three of the five showed a marked increase over the hand milking, one three-year-old breaking the Canadian record for milk in one day, seven-day and 30-day period, and raising 30-day butter record from 125.24 lbs, to nearly 135 lbs., her best seven days for milk and butter being made by the milker. Somewhat similar results were obtained upon two more while No. 4 remained about the same and the other did not seem to respond quite as freely to the milker as to hand milking, although she is hardly as uniform in her milking as the others in any case.

Sacrifice Speed to Efficiency,

Some conclusions I have reached: It pays to sacrifice speed to efficiency. Time taken to get the cow's milk "down" before attaching the milker results in a more rapid flow of milk in the machine with, we believe, consequent ease on udder and greater production. A little moving up and down of the teat cups on the udder before attaching also serves to draw milk more cleanly and make a more perfect job of it. We haven't much faith as yet in the claims of any machine milker to do the work so perfectly that no stripping is required. In fact, the most serious objection I heard against any machine was from a user of one supposed to milk the cow dry. Again, I think if as in many cases there is only a cupful left, it is time well spent with valuable cows at least to push on machine to another cow a little earlier and draw the last by hand. While we have seen no injurious effect from milker being on a little longer than it should, still it is a waste of time and the hand milking proves a check on the machine, so you know exactly just the condition of your cows and can govern yourself accordingly.

(Continued on page 28.)







The Milking Herd at the Asylum for the Insane, London, Ont.

What Type of Corn Do You Grow?

It's a Choice Between More Silage or Richer Silage

A Sentinel of the Modern Farm

WHEN corn was first grown in Canadian dairy districts, the large southern varieties were popular. These varieties gave tremendous crops of big stalk corn. There were then no silos in the country, and as the large stalks could not be handled to advantage, public favor swung over to the smaller Flint varieties which attained a greater degree of maturity and were more relished by cattle when fed as corn fodder. In recent years the Dent varieties, yielding more ensilage per acre, have become very popular, and now, in the the past couple of years, the whole question of choice of variety is again before the farming public, for, with the greatly increased number of silos, the old Mammoth varleties, once tried in Ontario and discarded, are again finding advocates, and among the very best

class of dairy farmers at that. An out-and-out advocate of large southern corn is Mr. D. B. Tracy, Holstein breeder and farmer, of Cobourg, Ont. In reply to an enquiry as to the variety of corn that he prefers Mr. Tracey writes Farm and Dairy as follows:

"For the last five years we have been growing a variety of corn called Eureka ensilage. When the object is to raise a great tonnage on a small acreage, it cannot be beaten. In a good corn year we have filled two 12 x 30 foot siles and one 10 x 30 feet, re-filling all the silos three times off 10 acres of corn. In many places the corn was over 15 feet tall and the stalks larger that, a man's wrist, Where the object is to have plenty of succulent feed the year round, and make up for the lack of cobs by a heavier grain ration, which we do here, I think this is the right variety to grow.

"We drill our corn in .

rows three feet six incnes apart, dropping the kernels about four linches apart in the row. We have found only one binder that will cut this corn for us, and it is a type used in the corn belt of the United States."

Mr. Mallory's Practice.

Mr. F. R. Mallory, of Frankford, who will be beet known to Farm and Dairy readers as the man who has bred and developed the May Echo strain of Holsteins, advises a half-way course in the selection of corn varieties. "Our Western Ontario corn mea," he writes, "have been striving for early maturity. They have made wonderful strides towards success, so far as maturity is concerned, but they have done it at the expense of stalk. I find that Wisconsin No. 7, for instance, is not as large in the stalk as it was five years

ago, but earlier in maturity. It does not fill the silos fast enough. White Cap Yellow Dent is worse vet. Leaming is not quite so bad. To offset this ten dency, I have been growing for two years an American corn called Eureka ensilage. It will yield three tons to one of Wisconsin No. 7, but it is shy on ears. To offset this we have been using one-half of each and planting in alternate rows but not mixing seed. We have had this corn 16 feet bigh with ears 10 feet from the ground. Sounds big, but can be vouched for by our district representative, A S. McIntosh, of Stirling.

"We use hills or drills according to the cleanliness of the ground. Drills give a little bigger yield, but you never can properly destroy weeds."

As Hy. Glendinning Sees It.

Mr. Henry Glendinning, well known to all Farm and Dairy readers, considers proper degree of maturity as one of the first requisites of good ensilage corn. He states his

"Of late years we have been growing Learning and Wisconsin No. 7. These varieties mature at the same time with us, some years sufficiently for seed, but not every year. They will average nine to 10 feet high. There is more leaf on the Wisconsin than the Learning, and a bigger cob. We have not noticed any tendency for these varieties to go all to grain, and we generally secure our seed from Essex county. I grew the large southern varieties 35 years ago, had them 15 feet tall and actually had mature ears. This, however, occurred only once, and was due to the hens thinning out the corn and no fall frosts till well on in October. When it came to growing corn for profit, however, we had to abandon the southern sorts, as there was not a sile in the province at that time. With the introduction of the silo we changed from Flint to Dent corns, but even with the silo I would not yet like to adopt southern corn. We are always partial to getting a good supply of grain in our ensilage. It reduces the ration of purchased milifeeds that we have to feed. I may be wrong in my analysis but I prefer a richer silage from the smailer corns "

Here are three diverse opinions from three successful dairy farmers. Fortunately all three meth-



"Where the Sait Sea Breezes Blow."

The dairy barns on two Nova Scotla farms, the property of the Semple brothers, Colchester County. The water is an injet of the sea.

ods can be tested side by side without extra expense, and every farmer decide for himself just what types of corn are most profitable under his special conditions.

Silage Crops for Nova Scotia A Comparison of O.P. V. and Corn Silage PROF. J. M. TRUEMAN, N.S.A.C., Truro, N.S.

A LMOST ever gardener in Nova Scotia grows with success the common Canada Yellow, or one of the sweet varieties of corn for domestic purposes. Corn has been grown for enslage on the College farm at Truro for something over 20 years, but at the end of this period we would hesitate to recommend farmers throughout the greater part of the province to build silos and grow ensilage corn. The seasons are generally too short. Looking over our results for a period of over two decades, I find that only about one year in four have the ears of such varieties as Compton's Early or Longfellow reached the glazed stage.

The best success has been obtained with the Flint varieties, such as Compton's Early and Longstellow, but so frequently have these comparatively, early sorts failed to come to maturity that, for a number of years, the farm manager has made a practice of planting from one-third to one-half of the acres grown with the common Canada Yellow. The mixture of this well matured corn with the larger growing but less matured varieties, has proven very satisfactory. The average yield, however, has only been about 1:

(Continued on page 8.)

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In Training for Future Responsibilities

Sons of Prominent Breeders Who Are Laying the Foundation of Future Success

UR sons." What a pride parents feel in the young chaps as they develop in knowledge and stature. Their lives fairly centre around the lads. They want to give them the best of opportunities for development. Perhaps they desire to spare them much of the hard and rocky road that they themselves had to travel to attain the independence they now enjoy. Perhaps in their desire to spare their children, they are not altogether wise. Too much hard work is never to be commended; it would dult the brightest intellect and is the surest way to kill all am-

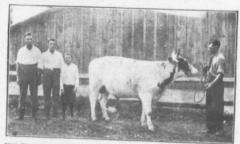
bition and initiative. A moderate amount of work however, is good for the boys, and a certain amount of responsibility is necessary to their best development. Where can we find the happy medium between too much work and too little, and just how much responsibility should the growing boy be allowed! This little story has to do with the families of a couple of Our Folks wherein the boys are given the responsibility for certain parts of the business according to age and talents; unless a cording to age and talents; and the suppose the proposition of the pusiness according to age and talents; of every Canadian boy and girl.

Our first illustration we will take from the old province of Quebec, where R. R. Ness has developed one of the finest herds of Ayrshire cattle on the continent, and has around him a fine bunch of growing boys. Earl, the eldest, has always been interested in his father's valuable herd, and particularly in their preparation and treatment for and on the show-rins circuit.

circuit. When 14 years old Earl went as assistant to Wm. Gibson on a tour of the western Canada Fairs. The education and experience gleaned on this trip has enabled him to take complete charge of this well known exhibition herd ever since. This is no small responsibility, as the animals are worth thousands of dollars, and require the most expert care, that they may always be at their best when throught out before the judge. It means much in time, work and ability to see and execute the things which have to be done without referring them to other shoulders. The success that has followed the Burnside herd at the leading Canadian exhibitions is the best evidence of Earl's successful manage.

For further proof of the ready response of boys to this training, the case of Earl's two brothers might be cited. On one occasion is was impossible for Earl to get away to take the herd to Valleyfield Fair. Bruce and Douglas, 15 and 11 years, respectively, made the entries and took a carload of animals to this show, with the result that most of the prizes came their way. In speaking of the younger boy, the father said, "He is more useful at the shows than a man, because, he is so interested." These boys now have almost complete charge of the herd and each own some choice young animals in their own right.

Travelling over much the same annual show



Will Their Names be Written Large in Ayrshire History of the Future?
They are making a good start. Holding a show Ayrshire that he had fitted himself is Earl Ness. The other three lads, from left to right, are Willie Hume and Bruce and Douglas Ness. The fit training for future responsibilities as the adjoint article hammanity testifies.

—Photo by an Editor of Parm and Dairy.

route of the larger fairs as the Ness herd, is another Ayrshire herd in competition with them, which is managed by the younger members of the family. In 1906, Thomas Hume, son of Alex. Hume, Northumberland Co., Ont., went with his father for one week on the Ontario show circuit. The following year the second boy Willie, had his turn with the herd. For several years these two boys were with the herd for part of or for the whole circuit, picking up things of value and learning the business from end to end. In 1914, when they were 18 and 16 years old, they took entire charge of the herd at several of the leading shows, including the Winter Fair at Guelph. That same season, Thomas, the elder, took three cows to Ottawa Winter Fair and won first, second and third prizes in their respective classes. Since then the boys have been responsible for most of

the show work, and in the absence of the father and one son at the shows, the other boy had the added responsibility of the farm at home. This last autumn, Thoms, who is sergeant in the 25th battalion, was not able to follow the herd, but Wille, now 18 years old, took charge, with the assistance of a cousin, R. N. Bissonnette, 16 years old, who had been helping for the last three years. The animals they showed won several championships at Toronto, including the herd championship.

The question might be asked if the risk was not great in allowing boys so young to control and manage animals so valuable? In answer 50 this, let me quote Mr. Hume, who wrote to Farm and Dairy on this point: "I had no fear but that they would manage all right." This confidence in

their sons' ability must be a great fund of comfort and pleasure to the parents, especially so when they realize that the business for which they have fought, worked and denied themselves, is going into the hands of heir own lads with every prospect that under their management it will not only maintain the high standards of the past, but, better still, establish new ones.

Ayrshires in Quebec J. C. CARTER, N.Y. State.

THREE years ago I ran to Montral with a touring party by motor car. We passed through How-ick, Ormstown, etc., and I am prone to confess that I never saw getter farming country. I certainly never, no, not even in the best districts of my own state, saw such splendid buildings and such general evidences of prosperity. The farm buildings very

prosperity. The farm buildings very generally painted. The fences were good. I did not need to be told that it was a dairy country. Such prosperity is found nowhere else. And being of Scotch descent, I was more than pleased to hear that it was an Ayrshire country.

At Howick I got in conversation with a young chap who readily confessed to being a farmer and an Ayrshire breeder. "Yes," he said, "Ayrshires are what put this place on the map. We have sold stock to go all over America. We send carboads of grande Ayrshires, to dairy farms in the U. S., Ayrshires have lifted the mortragaes from our farms, built our home and given the most of us a competence."

Now, what do you know about that! Talk about confidence in a breeder! And, say, isn't confidence in our line, whether it be hardware or cattle, one of the principles of success?



A Typical Pasture Scene in a District where Good Ayrshires and Lots of Them are the Rule—the Chateauguay District, Quebec.

—Photo on farm of Jno Logan, Howick, Que.

THE first week in June, 1916, we cut six acres of sweet clover. This was a good crop fully three feet high and was as thick as it would stand. Weather conditions were unfavorable for curing hay, and we put four acres in the silo, making a bulk of 12 feet in a 12 foot silo The clover became too dry before we finished filling the silo, and we were afraid it would fire fang. We found, however, that where the air was kept a vay from it, it kept as perfectly as corn silage We expect to put seven acres in this year, but will aim to have it placed in silo the same day as it is cut in the field.

When the silage is taken out it looks like

molasses meal, and has a sweet odor and is dark brown in color. The stock eat it readily. The best results were obtained by mixing corn silage and sweet clover silage together at the rate of 40 lbs. of corn to 30 lbs. of clover. A number of farmers are sowing sweet clover this spring with the object in view of mixing it with corn when the silo is being filled. We believe this to be an excellent idea, as the carbohydrates in the corn would insure the keeping of the clover and would be practical for the man with one sile. It would also help for he following reasons: (1) The cutting down of the corn acreage would save labor; (2) the clover being rich in protein makes it a very economical feed; (3) the roots make an excellent fertilizer, and as they decay rapidly in the soil, plowing operations are easy even in dry weather: (4) we figure that 30 lbs. of sweet clover silage equals 12 lbs. cat chop. If eight tons of green weight can be produced on an acre, an idea can be gained as to its feeding value

Believes in Sweet Clover But Advocates Sowing It Alone

GOWEET clover is coming into its own as a roughage on the farm." said Mr. W. C. Hogg, Ontario Co., Ont., as we chatted over the feed situation in Uxbridge recently. "But it must be sown alone," he continued. "I started sowing it two years ago, using a mixture of two pounds each of red

clover, timothy, alsike and sweet clover. I have found out, however, that it is a mistake to mix it with these other hay crops. Not that it does not yield well when sown with them. Last year we got 36 tons of this mixture from 10 acres at one cutting. The animals eat it all right, the horses in particular seeming to relish even the large woody stalks. I believe, however, that it would be better feed if sown alone, so that it would be out earlier in the season than when it is sown in mixture, where the cutting is deferred until the usual time for mowing the other crops,

"Last year we sowed 16 acres of sweet clever. using 18 lbs. of seed per acre. It came on fast and by narvest time had made such a strong growth that there was about one foot of it in the butts of the oat sheaves. For this reason the oat straw from the field in which it was sown is making better feed for our stock this winter. We are looking for great things from sweet clover. We expect to get two crops from it, the first one cut about the middle of June before the stalks get large and woody, and the other about silo filling time. It is our intention to try mixing it with the

silage next season."

Mr. Hogg prefers sweet clover to alfalfa because the seed is comparatively easy to obtain. Obtain ing good seed is almost an impossibility with alfalfa this year. He also claims that it is easier to get a stand with sweet clover in his district Last year the fields seeded were so badly water logged that the oats killed out, but the sweet clover came along as well as could be expected even in the most favorable of years.-R. D. C.

Intensive Farming at Ottawa More Than a Cow to the Acre

HEN we speak of intensive farming, we usually think of the thorough working of a small area. A large farm, however, may be as intensely worked as a small one. The Central Experimental Farm at Ottawa is an example



Ideall A Good Herd, a Pasture with Shady Corners, Corn for the Silo Background. Alfalfa is also Grown on a Large Acreage. -On farm of J. W. Richardson, Haldimand Co., Ont.

On this farm of 190 acres are maintained 180 head of cattle, 84 sheep, 175 hogs and 30 horses. The greater part of the feed for this stock was produced on the farm. "How do you do it," an editor of Farm and Dairy recently asked Mr. Grey, the farm foreman

"We depend on pastures practically not at all," said Mr. Grey. "We have lots of silo capacity, grow lots of corn and feed ensilage twice a day practically the year round. Occasionally we feed green peas and oats as a change, and occasionally green alfalfa. We have a piece of alfalfa near the barn. We cut some of it four times last year I wish we had kept track of the yields on that small area; it was enormous. All of this feeding, of course, is done in the stable, and along with the succulent feed we give a little grain through the whole summer season."

Mr. Grey informed us further that they will have 150 tons of hay left over this year, but that they bought some timothy hay for the horses. At the time of our conversation, early in March, they were just starting at Ottawa to use the 1916 crop of ensilage. This is intensive farming as they do it in older lands.

Why Not a Grade Bull?

There Is Always the Danger of Reversion By "HERDSMAN"

HY not use a grade bull?" I have often been asked this question, and frequently the views of the questioner were backed up by some pretty substantial figures. For instance, at the National Dairy Show at Chicago a few years ago I saw exhibited the grade Guernsey cow "Jerry," bred in Wisconsin. Her record was 15.744 lbs, of milk and 729.89 lbs, of butter fat: over 900 lbs. of butter as our Holstein friends figure it. Thousands of pure-bred cows with pedigrees as long as a city sidewalk have no such records as this to their credit. In fact, there are few pure-bred cows of the Guernsey breed

that have done better. As an individual, too, "Jerry" was a wonderful cow dairy temperament, wonderful capacity and beautiful to look at. And many who looked at her would have jumped at the chance to have gotten one of her bull calves had they then been in the land of the living.

"Jerry" inherited her wonderful performing powers from her ancestors, Her blood was from two sources; one fountain was a long line of pure-bred sires of the richest breeding; the other source was a common scrub or native cow back in the early days of Wisconsin breeding, and back of that scrub was a long line of scrubs; just as long a line of scrubs as there were aristocrats in the family of "Jerry's" sire, "Jerry's" veins flowed these two lines of breeding. In her progeny either line might come to the front. would be the danger of using a grade bull even from so good a cow as "Jerry." In a good strain of pure-bred cattle there is no scrub blood to assert itself. Hence the greater prepotency of the pure-bred sire. And viewing the question in the larger light, I never saw a good herd of grade dairy cows that had been developed by the use of grade bulls. Did you?

Our Experience With Grimm

It is Ideal for Our Climate W. O. MORSE, Halton Co., Ont.

E have been growing alfalfa on a small scale for many years, and almost with unvarying success. In dry seasons our crop may be shorter than in seasons when conditions are more favorable, but always there is a good paying crop of hay to be harvested. Our oldest stand at present was seeded eight or nine years ago on a steep gravel bank that did not seem to offer a hospitable seed bed for any crop. Last season the first cutting of alfalfa must have yielded almost four tons to the acre. The variety, I believe, is Ontario variegated, a good variety, but now we believe we have found a better one,

Three years ago we purchased our first seed of Grimm alfalfa, just a couple of pounds, and seeded it in drills 32 inches apart. The first season we cultivated and weeded just as we would a hoe crop. The latter operation was reduced to a minimum by thorough summer fallowing up to July. when the seed was sown. It made a good growth and came through the winter in perfect condition as it has come through every winter since. This is the greatestmerit that we see in Grimm

(Concluded on page 8.)

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Every Cow a Profit Maker

Our Herd Accounting System Insures This-Ey J. Lee Alexander

When the common the common to the common to

During haying, all hay suitable for dairy cown was stored by itself, and measured. Each cow was charged with her proportion. This also applied to the ensilage. We took our hay at the highest price paid in the locality, and counted our ensilage at the rate of 2½ tons at the same value as a ton of hay. The roots were measured and fed. The concentrated ration was made up of home-grown grains, ground, and other meals, such as bran, cotton seed meal, oil cake meal, gluten meal, etc., bought and mixed to make a balanced ration. This mixture was fed to the cows at about the ration of seven pounds for each

pound of butter fat, when the hay was mostly timothy, and less when clover. We had a sheet with each cow's name and the amount she was receiving over the meal box, and whenever it was necessary to change a note was made of this, and at the end of the month the amount footed and charged up in the ledger.

In this way we knew how each cow was doing and it is needless to say changes came often for

After three years we increased our profit required to \$50, and think this is plenty low enough. Any cow that fails to show this amount (without some good reason) on the credit side of the ledger goes for beef. Our herd has increased from 28 at the beginning to from 60 to 90 milking cows, and the average production from a little less than 200 lbs. first-year to 456 lbs. of butter for 1916, and the net profit per cow from \$17.80 to \$90.60.

\$137.61

It was through our cost accounting system that we came to notice the difference in profit between the high and low testing cows and on that ground I take exception to the R.O.P. standard for Jerseys. Too much emphasis is placed on milk. In our herd we had cows showing a yearly net profit of \$125 that could not enter the R.O.P., while others that could, we were selling for beef. This is something which our records have established to our satisfaction, anyway, that where the profit is hased on the Babcock a high testing cow is

A Few Members of the Jersey Herd of A. H. Menzies & Sons, Pender Island, B.C.

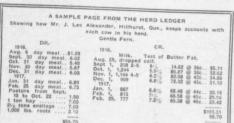
more profitable than a low testing one. I have yet to own a cow that will make 500 lbs. of butter as cheaply from 12,000 lbs. of milk as one that will make it from 8,000 lbs., and right here I would like to call attention to dairy type.

We Show Our Producers.

All of our most profitable cows are those that would please the eye of a dairy judge, and instead of the blue ribbon cows giving a man the blues, ours are the most profitable in our herd. We note with pleasure as the typey show-ring cows get more numerous, our net profit per cow increases.

In regard to the time required to do the bookkeeping I am sure I cannot say as for the first 10 years I did it all myself after my day's work, but for the last five years I should say that the time taken for all extra work about the dairy, that is, the work that the average farmer does not do, might require one day per week, but any one who tries it for a year or two will agree with me that it is the most profitable work ever done on a farm. Perhaps a copy of one of our cow's accounts for six months might be of interest 1 am sending that of Gentle Fern, 6339. This cow has won more first prizes and grand championships than any other female we own. been shown all over eastern Canada for the last two years, and has only been placed second once, and that to her stable mate Imp. Brampton Petal, No. 3699, who won over her at Sherbrooke last fall. This very promising young four-year-old has a record of 405 lbs, fat in her first or two-year-old lactation period, and will certainly make a large record this year if nothing prevents. Gentle Fern dropped a calf on the fair grounds at Quebec August 25, 1916, the next day winning first and grand championship. She was shipped from there to Sherbrooke, and from there home, on September 8th. She won a little over \$80 in individual prizes, besides being one of the winning mature at every exhibition shown. The record she made will be the best proof we can offer that so milk our show cows, and show our milkers.

The high price of potatoes is due to a worldwide shortage, not to illegal combinations among growers and dealers. Prosecution of potato exchanges and imposition of an embargo on exports could not, therefore, reduce prices to a normal level. The most notable effect of such drastic measures would be to discourage production another year.



feed for a year could not stay in our herd. At that very modest demand we had to replace 22 out of 28; and this herd was considered one of the best grade herds in this locality.

Our method of bookkeeping was to keep a cow ledger, each cow having a page and being credited with what she produced and charged with what she consumed. Her milk credits were tabulated on a sheet of cardboard ruled into 31 squares, each divided into two parts for morning and evening milking. In this way we kept record of every pound of milk produced by each cow. A sample from four milkings taken each month was tested and the amount of butter at the selling price credited each cow. I will add that we made our own butter, and the variations between Babcock and churn carefully noted, and amounts subtracted or added as the case might be, but on the whole there was very little difference after adding an 18 per cent, overrun.



Black and White Cattle will Always Find Favor Among City Milk Producers.

Silage Crops for Nova Scotia (Continued from page 4.)

tons per acre, the Compton's Early and Longfellow giving about 15 tons and the Canada Yellow eight to 10

Corn Desirable in Some Districts. In the Annapolis Valley and in some of the counties along the South Shore of Nova Scotia very much better results have been secured than at Truro and in the eastern parts of the

province. In the more southern parts quite surprised to see a little larger province. In the more southern parts quite surprised to see a little larger of the privince, the season is longer growth and more maturity than in the and fall frosts are often delayed a flint varieties which were grown on month or more after they have destricted the college Faulch were grown on troyed the corn of the East and North. to grow some of this variety next year. troyed the corn of the East and North.

In those parts of the province corn For several year, we have made the for ensilage purposes is grown in attempt to green our own seed corn altered quantities each year and should and so aim through the process of the Agricultural College grew of the Agricu

corn crop for ensilage purposes, we grew last year on the College Farm some five acres of peas, oats, and srow hat year on the College Farms some five arress of .eas. and yeaches, which was cut an only a college of the silo. This crop yielded he silo. This crop yielded he silo. Stage of about 11 tons per nere and college of about 11 tons per nere and college of the silo. Stage of the silo. Stage of the silo. Stage of dry matter, in comparison with 13% dry matter, in comparison with 13% of dry matter is an adjoining field or corn which yielded at the rate of about cight tons per acre. The labor expended upon this crop was less than lant that spent on the corn and the ensiliage produced is now being fed most satisfactorily. At the present most satisfactorily, At the present time we are of the opinion that this erroy will prove a most valuable, poscrop will prove a most valuable, possibly the most valuable, ensilage crop which can be grown in the Eastern and Northern parts of the province of Nova Scotia.

The complete analysis of the ensilage from oats, peas and ver from the corn is given below: vetch and

O. P. V. Silage Corn Silage Water . 80.00 2.31 Carbohydrates 23.42 15.22 1.59 1.42 100.00

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It will be seen from this analysis that the oat, pea and vetch silage contains 26.56% of total nutrients, while the corn silage contains only 18.58%. The yield of dry matter per acre was 6,193 be, on the oats, peas and vetch and 3,200 in corn silage. It is true that this was a poor corn year, but it shows the condition in this section

about three years out of four.

The protein in the oats, and peas is not any higher than in the corn, which is surprising at the first glance. will be noted, however, that the co was very green and evidently contact the contact was very green and evidently contact and one nitrogen than would be case for mature corn. This would be partly amide nitrogen and not as valuable as that in the mature crop.

valuable as that in the mature crop. The protein in mature corn slage is about 1.4. It would seem, therefore, that the oats and peas are more valuable for this section than corn. The results of three years trials with O. P. V. and corn, 1914-16, have given us an average yield of nine tons of corn and 10 tons of C. P. V. per acre, with about eight per cent. more dry matter in the G. P. V. The O. P. V. cures perfectly in the silo and the cows set it as readily as they do the corn.

they do the corn.

The O. P. V. is sown on grass land The O. P. V. is sown on grass tanu (clover and timothy sod) plowed in the fall. The seed is put in as early as the land can be worked—two bushels of outs, three-quarters of a bushel of Golden Vine field peas, and one-third bushel of common vetch. one-third bushel of common vetch. This is cut when the oats are just beginning to enter the dough stage, before much yellow shows in the straw.

If left too late it will not pack well in
the silo and will mould. We cut it with a mowing maching pick it up as cut from the swath veth forks, and haul it directly to the silo, where it is run through the cutter.

Our Experience with Grimm (Continued from page 6.)

As far as we can judge our

affair. As far as we can judge our Canadian winters and springs have no effect on it whatever. This is more than we can say for the variegated affaifa, though it, too, is hardy.

The yield of the Grimm has been equally satisfying. When ready to out fout we allowed ours to go to seed) one would not know that it was planted in rows, so dense was the growth. It stood waist high all over the field; a better showing than we have ever had with any other we have ever had with any other variety of akaifa. The cost of seed is still high, but if a stand will last for even six years, the cost of seed per year is trifling; cheaper than

Massey-Harris Service

Talk No. 2.-A Helping Hand.

CATISFIED Customers are the foundation of any permanent business. We have been in the business of manufacturing and selling Farm Implements for seventy years and are in it to stay. We have supplied three generations of farmers with their requirements in this line, and our steadily increasing business is sufficient proof that our Customers are receiving full value, both in the implements themselves and in the service rendered.

The past is a good index of the future-Massey-Harris Service will always be a prominent factor in the business.

Satisfactory service cannot be rendered by a middleman. He does not have the necessary knowledge and experience, and may this year handle the products of one factory and next year be handling a different line, so that no continuous service of any kind is to be had.

We are represented in several thousand towns and villages throughout Canada by Local Agents backed up by our factories and branches located at convenient points. In dealing

with one of our Agents, you are dealing with Massey-Harris Company, Limited, and should there be any change in your Local Agent, this does not in any way affect the situation, for Massey-Harris service is always availableright in your neighborhood there is a Massey-Harris Representative ready to extend a helping hand.

Is it not worth while to know that when you buy a Massey-Harris Implement it will be carefully erected, a reliable man will see that it is properly started, and that further service will be available at any time on short notice?

In an early number of this publication we shall have more to say regarding Massey-Harris Service which is of such vital interest to every farmer.

MASSEY-HARRIS CO., LIMITED

Head Offices-Toronto. Factories at Toronto, Brantford and Woodstock. Branches at:-Montreal, Moncton, Winnipeg, Ragina, Saakatoon, Yorkton, Caigary, Edmonton. Swift Current, AGENCIES EVERYWHERE

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The Dairyman's Friend



UPPOSE one of your most valuable cows valuable cows gets seri-ously injured or sick and you need a veterinary in a hurry. If you have a telephone you can call him immediately and save an animal that might

There is more than one use for a telephone on the farm. Our handsomely illustrated book, "Canada and the Telephone, gives numerous uses. Send for copy. It's free.

The Provincial Governments recognize the advantage of telephones in rural districts and practically all of them have done something to encourage the construction of independent telephone systems. In Ontario, the Government

given municipalities the right to build and operate Indeendent telephone lines. In Nova Scotia, the Government onuses independent rural telephone systems. In Saskatchewan, the Government lends Its And so on.

If your community is without telephone service it is high time to get busy and secure it. Call a meeting of the residents and organize. We will supply you with all necessary information free. Our experience in assisting in the organization of the majority of independent local and municipal, telephone systems in Ontario is worth money to any prospective tele-phone system and insures getting started on a paying basis.

Our telephones are of the very highest quality and most modern design. Our construction materials are guaranteed first quality. Our prices are In many instances, we can do unusually well for our customers because we were fortunate to make large contracts some time ago at exceedingly some time ago at exceedingly favorable rates. The raw materials entering into the manual rate of the properties of the p

Canadian Independent Telephone Company, Ltd.

269 Adelaide St. W., Toronto

the seed cost might be for a less hardy variety.

Alfalfa is the ideal crop for much of our soil, which is stony. Every time the soil is stirred stones have to be picked and hauled off and cultivating operations are always hard on both machinery and horses. It is our plan to get the most of our land into alfalfa and leave it there as long as possible. We have yet to hear of a more profitable or suitable crop.

Experiments With Flax for Fibre

ULING the year 1915 a number of plots of flax were grown at or plots or max were given at the Central Experimental Farm, Ottawa, the seed having been obtained from Holland. The samples were pulled at various stages of ripeness, setted under water, and afterwards setted under water, and afterwards contained by the Ontario Flax Co. Ltd. The West Co. Ltd. The Co. L the Central Experimental Farm, some of the doubtful points and to determine—in so far as this was possible in a single year—whether the highest grade of fibre-flax could be successfully grown in Canada.

Successfully grown in Canada.

The seed used in 1916 was harvested from some of the plots sown with Dutch seed in 1915. The rate of sowing per acre varied between 1½ bushels and 2½ bushels of seed germinating 100 per cent. This means that where it was decided to sow 2 bushels per acre of seed with a ger-Dushess per acre of seed with a ger-mination of 100 per cent and the sam-ple of seed available gave, when test-ed, a germination of 96 per cent, it was necessary to sow a somewhat has necessary to sow a sow a sow a sow a sow a has necessary to sow a sow a sow a sow a sow a has necessary to sow a sow a sow a sow a sow a sow a has necessary to sow a has necessary to sow a has necessary to sow a s the latter—as a matter of fact, two and one-half bushels.

As very early sowing is an important factor in achieving success should the summer turn out to be unusually dry (as actually happened in 1916), seven plots were sown on the 26th of April, one on the 28th of April and seven on the 12th of May.

The soil was a heavy clay and at the first date of sowing was rather wet, consequently it was decided to make several shallow trenches about six inches deep between some of the ski there's deep detween some of the plots. For several weeks after sow-ing wet weather continued with very little interruption, and the system of surface trenches undoubtedly saved the situation.

The crop was pulled on various dates between the 14th of July and the dates between the 14th or July and the 27th cf July, the capsules being fully grown. In some cases the seeds were-pale in color and unripe; in others the plot was pulled when the first seeds on each plant were ripe; in those on each plant were ripe; in those pulled last about half the seeds were

The average height of the seven plots first sown was 30½ inches, and the average of the last seven was 29

The flax was put into water on the same day on which it was pulled, and was allowed to remain immersed from three to three and three-quarters days. It was then taken out and spread on It was then taken out and spread on the grass for a period of one to two days. The scutching was done by the same firm as in 1915; and the final re-port, made by the same gentlemen who examined the previous year's

who examined the previous year's crop, was as follows:

"The flax is a good length, well retted, and strong. It is the best flax I have seep in Canada yet. According to flax values here it should be worth 40c a pound or more."

RENNIE'S SURE High Grade Tested Seeds

Rennie's Market Garden Table Carrot ... Pkg. 10c, oz. 25c, 4 oz. 75c, lb. \$2.25.

Cardinal Globe Table Beet .. Pkg. 10c, oz. 20c, 4 oz. 50c, lb. \$1.50 Glory Enkhuizen Cabbage (hard head). Pkg. 5c, oz. 30c, 4 oz. \$1.00 Rennie's Spinach Beet (for table greens). Pkg. 10c, oz. 30c,

Stringless Refugee Wax (Butter) Beans . . 4 oz. 15c, lb. 50c, 5 lbs. \$2.25

Rennie's XXX Early Table Corn (sweetest) Pkg. 10c, lb. 40c, 5 lbs. \$1.90.

Davis Perfect Cucumber, for table or pickles Pkg. 5c, oz. 20c, 4 oz. 50c. XXX Pink Skin Tomato, solid fruit, big cropper . Pkg. 15c,

1/2 oz. 35c, oz. 60c. Mammoth Green Squash, specimen 403 lbs. weight, Pkg. 10 seeds 25c.

XXX Scarlet Round Radish (white tipped) . Pkg. 10c, oz. 20c, 4 ozs. 50c.

Quaker Pie Pumpkin, popular for pies. Pkg. 10c, oz. 25c, 4 oz. 75c Laxtonian Bush Table Peas, extra early ... 40z. 15c, lb. 45c, 5 lbs. \$1.90.

Champion Moss Curled Parsley . Pkg. 5c, oz. 20c, 4 ozs. 50c, Select Yellow Dutch Onion Setts lb. 35c, 5 lbs. \$1.70 Rennie's Selected Yellow Globe Danvers Onion (black seed),

Pkg. 5c, oz. 25c. Extra Early Red Onion (black Seed) Pkg. 5c, oz. 25c,

Select Nonpareil Lettuce, large heads. Pkg. 5c, oz. 20c, 4 oz. 60c Giant White Feeding Sugar Beet, for stock 4 ozs. 15c, 1/2 lb. 25c, lb. 45c.

Rennie's Prize Swede for table or stock . 4 oz. 20c, 1/2 lb. 35c, lb. 65c XXX Climbing Mixture, Nasturtiums . . . Pkg. 10c, oz. 20c,

Sweet Mignonette, fragrant, large flowers. Pkg. 5c, oz. 25c Giant Trimardeau Pansy, all colors mixed Pkg. 10c, ½ oz. 40c Spencer Choice Mixed Sweet Feas Pkg. 10c, oz. 30c, 4 ozs. 90c, 1b. \$3.00.

"Pakro" Seedtape. "You plant it by the yard." 2 pkts. for 25c. Ask for descriptive list. Rennie's Seed Annual Free to All. Delivery Free in Canada. Order through your LOCAL DEALER or direct from

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MONTREAL WINNIPEG VANCOUVER



Are you using Scythes or a Reaper?

A machine reaper of course.

Primarily because it saves labor, and labor wages with labor-keep is extremely high.

That—the reaping of profits by labor saving-is only one reason for milking with



Burrell (B-L-K) Milker Good for the Herd

One man, operating two 2-cow Burrell Mikers, milks 24 to 30 cows an hour, according to conditions, does the work of three hand-milkers.

Labor is source and hard to keep. Good labor is more content with Burrell Milkers than with the tedi-ous, exasperating hand-milking.

Sickness among hand-milkers means extra work, other farm work

neglected. A woman can operate Burrell Milkers. Labor wages saved in less than a year pay for entire Burrell outfit. It becomes part of the farm's valuable, paid-for invest-

If you milk 20 cows or more, let us send you free our eye-opening Burrell Book on milking profits. Profits once gone are

D. Derbyshire Co., Ltd., Brockville, Ont.

Branches: Peterboro, Ont.; Montreal, P.Q.; Quebec, P.Q.





Canadian Dairying from Coast to Coast

ducts exported from Canada for the season of 1916 will exceed all previous records. When the final returns are available, the total value roturns are available, the total value will be found to be approximately \$40,000,000, or about \$3,000,000 more than ever received before in a single year. I also be than ever received before in a single year. Canada for the surplus exported. Although the large increase in value is chiefly due to higher prices, value is chiefly due to higher prices, thousand a substrated increase in

value is chiefly the to higher prices, there was a substantial increase in quantities on well. The exports of cheese will probably be the largest since 1908, although in 1911 the quantity was practically the same. The quantity who butter exported in 1916 was the largest since 1907, and the quantity of condensed milk exported was the largest in the history of that industry. All this shows an upward tendency in production at the present tendency in production at the present time.

With the production of butter in the Western Provinces now large enough to supply all local demands,

enough to supply all local demands, any further increases in that section—and there will be further increases—and there will be further increases—the same so much more to export.

I seem of the section of the section of the section between the section of the section section section in the section section of the section s

butter from the Pragre Provinces.

The creamery industry continues to thrive in Nova Scotia, and while the growth is not rapid it is substantial, and is being built up on a good founda-

I am pleased to say that we have

I am pleased to say that we have never had so many inquiries respect-ing cow testing as we are having this apring. This indicates further im-provement in production. With the large decreases in the live stock of important dairying coun-tries of Europe there is bound to be a good demand for dairy produce from Canada for some years to come, and those who find themselvee in a post-Canada for some years to come, those who find themselves in a position to maintain the present rate of maintain or to increase it, have production, or to increase it, have every reason to believe that they will

every reason to believe that they will get a good return.

The prevailing high prices have stimulated inquiry set to the relative values of different foods, and milk and its products will gain in the es-timation of the public, rather than suffer by any properly conducted in-veetigation of this kind.

Dairying in P.E.I.

meeting of the Provincial Dairymen's in the manterure of the fluidshed production held recently. This figure is the provincial part of th

The Dairy Outlook for the Season was said to be one to the shortage of labor, owing to so many farmers enlisting and also to the abnormally listing and also to the abnormally high prices of raw materials, such as pointees and oats, which led a number of farmers to follow the line of land resistance and give less attentions. least resistance and give less atten-

From Eastern Ontario

G. G. Publow, Chief Dairy Instructor for Eastern Ontario.

DROBABLY dairymen have never had such favorable conditions sur-rounding the approach of a manufacturing season as those prevailmanufacturing season as those prevailing at the present time. Dairy products at any time, who or good quality, are always staple products and profitable commodities to produce the product of the produc ied by such extraordinary prices. Therefore it seems most fitting that sil those connected with this particular branch of agriculture should start the year with a clear understanding of the needs of the industry and the opportunities, awaiting the standing of the needs of the industry and the opportunities awaiting the individual to secure for himself and his countrymen at large the most beneficial results.

It is already at this date none too early for producers and manufactur-ers to make a careful inspection of their buildings and equipments with their buildings and equipments with the idea of placing them in a suitable condition for obtaining the best results. The Dairy Azi of Canada states specifically that all places surround-ing the production and manufacture of dairs products must be maintained. ing the production and manufacture of dairy products must be maintained of dairy products must be maintained in a clean, sanitary state, and it is the in a clean, sanitary state, and it is the intention of those in charrier of the inspection of these places to see that the regulations are compiled with even more fully than ever, because all have now had sufficient time to make necessary preparations or alterations. essary preparations or alferations

T

Let us first refer to the work of the producer of milk at the farm, and producer of milk at the farm, and without going into a long discussion of details we can touch at the most vital part by simply repeating what we have said in varying rays before, namely, that the farmer outrois in almost every conceivable way both the quality and quantity of the manu the district and quantity or the manuer and condition in which he produces the raw material, which in this business is clean sweet milk. And let us repeat also, for it is not yet too hare, for all districts of the condition of

The 40 creameries and factories in Prince Edward Island last year as in compilance with the laws of manufactured butter and cheese as in compilance with the laws of malitation, put their places of manufacture in suitable shape for the assatisties made public at the annual surnone of cleanliness and efficiency according to the Provincial Dairymen's in the manufacture of the finished pro-

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on the part of the men who suffer. Feed is high in price, but most second from its practice. No effort itons of Western Ontario had excellented by the part of the

The Western Ontario Outlook Frank Herns, Chief Dairy Instructor. F. M. Logan, Ass't. Dairy Commis-

M OST of the annual factory meetings have been held and arrangements made for the coming season's work. Owing the increased cost of dairy supplies an accessary for cheese factory owners to raise the price for manufacturing to raise the price for manufacturing to raise the price for manufacturing cheese. The patrons, realising the situation, have, in most cases, readily agreed to the increase. Since the first of January the instructors and the writer have attended a large number of annual meetings of cheese factories and grammerles. The attender of the state tories and creameries. The attendance at most of these meetings was large, and the patrons were optimisregarding the future of the dairy industry

Several factories have recently Several factories have recently changed hands. The patrons of at least one factory are evidently not satisfied to change from cheesemaking to supplying milk for other purposes, with no by-products returned to the farm, and are proposeding to build a farm, and are proceeding to build a new factory.

It is not expected that any shortage of cheese boxes will develop this season as was the case last year. Substitutes will be on the market to relieve the anticipated scarcity of commercial rennet.

Some herds, especially in certain sections, have been reduced in number, but the cows sacrificed have been chiefly poor producers.

Chieny poor proqueers.

A number of cheuse factories and creameries continued operation during the winter months and there is some increase in winter dairying. Greater attention is being given cow testing and a wider interest taken is unpulsing a good uniform unality. in supplying a good, uniform quality of mink and cream to the factories. Sev-eral additional cheese factories will pay for milk by test this coming seapay for mire by test this column sea-son, and those formerly doing so will continue this method of distributing the proceeds. Considerable interest is shown in the problem of grading cream and butter and making some distinction, in price in accordance with distinction in price in accordance with quality.

The high price of dairy products has lessened consumption somewhat, especially milk in the larger cities.

Dairying in Saskatchewan

sioner, Sask.

THE question then is, "What will its future be?" This province possesses some features which will always be a detriment to the in-

possesses some features which as will always be a detriment to the list will always be a detriment to the list will always be a detriment to the list of the list will always be a detriment to the list of the list will always be a detriment to the list of the list will be a list will be a list of the list will be a list will be a list of the list of the list will be a list of the list of the list will be a list of the list of These will all have a tendency to make dairying one of the most import-

thate carrying one of the most important branches of agriculture.

As to the market for a large output, we need have no fear so long as the quality is right. There will be a good market in British Columbia for some years to come and when that good market in Billish Columnia for some years to come, and when that market is supplied we can turn our attention to England, which is usually in a position to purchase an unlimited quantity. I look forward then to the day when Saskatchewan will produce cow testing and a winter interest taken only when establishment will produce in supplying a good, uniform quality of 50,000,000 pounds of butter each year mink and cream to the factories. Sev. instead of 5,000,000 pounds, as she is instead of 5,000,000 pounds, as sne is now doing. All that is necessary to bring this about is a willingness on the part of the individual farmers to do their share, and a continuation of the businessike methods of manufacthe businessike methods of manufac-turing, which have alray done so much for the industry output has reached 50,000,000 pounds, there will be no further used for moratoriums or Government and poverty-stricken farmers. It is poverty-stricken farmers. of the best occupations that men and

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and germination)	4.00
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mustard)	13.00
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grown)	13.00
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The Now Sories



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ONTARIO Western Service and Distributing Branch: REGINA, SASK.

SEND FOR DESCRIPTIVE LITERATURE

Of the two m stakes made in feeding, under-feeding is the most com-

women can be engaged in. We all have a part to perform in this work.

The question is, "Will each one do T. A. F. Wiancke, Provincial Dairy instructor,"

Instructor, "Instructor,"

Lowed by a late, backward apring and the consequent shortage of dairy feeds were responsible for the cowe coming Instructor.

URING a large part of the year usual heavy flow or omittion. The 1916, the climatic conditions of and May was largely reduced owing British Columbia were united and May was largely reduced owing British Columbia were united to the of early apring pasture. Wet. The severe winter of 1916, fol- weather during the haying season is

most of the dairying sections resulted in much damage to the hay crop and in his is being severely felt during the present feeding season. The increaspresent reeding season. The increased production from young stock was largely offset by these conditions and therefore the total dairy production does not show the increase that might have been expected under more favorable climatic conditions.

able climatic conditions.

Prices for dairy products were never higher, and even with higher prices for feeds and a general ccarcity of labor, the returns the milk and ocean producer were for the most part quite satisfactor. Given a normal season as 10 weather and crops for the current feed, a substantial increase in total dairy production should be noted.

New Creameries.

During the year new creameries established at Cranbrook, Revelstoke and Heffley Creek.

Armstrong and Abbotatord Those at Armstrong and Abbotatord Those are condensed and evaporated drining to the war, was followed by the re-opening of the condense at Ladner and a large quantity of milk that and a large quantity of milk that otherwise would have found a market in Yancouver was evaporated for export trade. The condensers in the Chilliwack and Comox districts also show a year, astisfactory increase. show a very satisfactory increase in annual output of evaporated milk.

Our creamerymen are becoming alive to the fact that a system of alive to the fact that a system of cream grading, with payments for raw material according to quality, is the shortest cut toward a permanent improvement in the quality of B. C. butter. Already a number of creame-ies have begun systematic grading and we hope soon to be in a position to report many others falling into line.

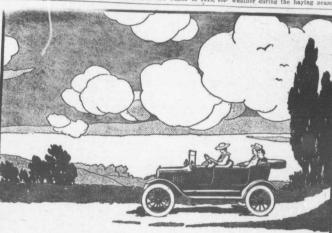
Cow Testing Progressing

Cow testing associations have re-Cow feeting associations have re-ceived considerable attention and with very gratifying results. Four associa-tions in the coast dairy sensor are in a very flourishing condition. present time some 2,000 cows are un-der test. We follow the Daniels yield tem; the test supervisor visits a farm of each member once per month. He stays at the farm over night, weighs, samples and tests the milk from each individual cow in the herd and leaves a record with the farmer. This record includes not only the ap-proximate milk and butter fat yield, but also the cost of the food consumed by each cow, the cost of producing by each cow, the cost of producing ceived considerable attention and with but also the cost of the food consumed by each cow, the tost of producing 100 lbs, of milk, of 1 lb. of butter fat and the returns from one dollar ex-pended in feed. No speed of keeping herd records is so complete astist factory as that in which food satist factory as that in which food as are considered, and for this reason the results obtained in B.C. are parti-cularly wallable. Remarkshle im-provement has been noted in the sec-tions where cow testing is being agprovement has been noted in the sec-tions where cow testing is being air-ried on, and this is not noticeable amongst the members alone, as many others are profiting by the expectation and example of the testing sections and example of the testing between the sec-directly due to the work of these as-sociations may be noted briefly the fol-lowing:

1. The study of the individual cow in each herd, and feeding her according to her milk production.

2. The provision of more and better dairy feeds, with particular attention to succulence and palatability. The number of silos for both winter and summer feeding is increasing at a very existance; rate. satisfactory rate. 3. The selection and rearing of bet-

ter caives. Marked improvement in this regard is noted after the first couple of years of systematic testing. 4. Early stabling in the fall, better ousing and attention to cleanliness,



Good-bye to Dull Days

Touring advantages with a Ford car lift farm life out of the rut of hard work. Good-bye to dull days if you have a Ford on the farm. The stay-at-home family craves the pleasures of town life—the jolly parties, the entertainments, the lectures, shopping in townthe change that's better than a

Away, five, ten fifteen miles in the evening! Back before 10 o'clock, up early and fresh for work next day with a new enthusiasm that livens up everybody. Nothing can take the place of the automobile on the farm for healthy, wholesome, invigorating enjoyment.

Thousands of farmers in Canada use Ford cars with satisfaction. Donald Murray, Kennedy, Sask., says:-"A Ford is a necessity on every farm. I would not be without one as long as I have money to buy one."

But there are other reasons than recreation for adopting the Ford. It takes its place in the day's work. It is your strongest help and time-saver for emergency trips to town. It cuts the cost of running and repairs to the minimum. You can use it profitably and enjoy it constantly. Buy one now.



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Farm Management

Annual Hay Crops

E will be slort of hay next year, as the hot dry weather of last sum-relief or the stilled our clover stands of thinned them seriously. Will you suggest annual spring to suphat we might seed in spring to suphat we might seed in L., York Co., Ont.

Millet is a crop that is often used for this purpose. The land may be cultivated at frequent interval up to cultivated at frequent intervals up to July 1st, or perhaps a critical the land the double object of cleanful the land and conserving moisture, and the land millet at the rate of 30 Rbs. of the acre. The crop can not be cut for hay in September. If common millet is the variety sown, and this is millet is the variety sown, and this is the best variety for Ontario, it should be out after it flowers and before the the best variety for Ontario, it should be cut after it flowers and before the seed sets. If the seed is set the mil-let gets too hard. Millet is said to be hard on land, and perhaps it is, in the sense that it is a close feeder.

If your rotation will allow, peas and oats might be seeded early in the sea-son, the seed being mixed in equal quantities by weight and sown at the quantities by weight and sown at the rate of four measured husbe to the acre. This mixture should be cut for larger than your as soon as the forms and when the oats are in an account of the control of e plowed and surface worked through

Crop Diseases Preventable

N a recent address, the Dominion Minister of Agriculture, Honor-able Martin Burrell, stated that last year's epidemic of rust in the Prairie Provinces had cost this coun-try fifty million dollars. That repre-sents \$143 for every farmer in Canada. other diseases and drought oc-casioned the country a loss of another fifty million dellars. No specific remedy for rust has yet been dis-covered. This much is known, that a late maturing crop is more subject to the disease than one that ripens early. It therefore follows that while early. It therefore follows that while no variety of grain is immune, the early maturing varieties will have the best chance of escuring. A reason-ably early spring, early sowing, and a quick maturing variety of grain con-stitutes the best insurance against such an outbreak as was experienced last year.

Among other diseases which cause Among other assesses which cause have among growing grains, smut is perhaps the most widespread. It is stated that the annual loss due to smut in oats, wheat and barley amounts, in an ordinary year, to seventeen million dollars, or 6.2 per cent, of the capital invested in those corps. This enormous loss is almost entirely measured to the corps. entirely preventable by treating the seed before the sowing in a solution seed before the sowing in a solution made from one pound of formalin to 35 gallons of water. Prevention of this kind is most necessary in these days of high cost of labor and seed, Wherever there is a danger of smut attacking either of these crope, farm-ers will do well to take this simple ers will do well to take this simple precaution.—Food Production Campaign, Ottawa.

Grain Grinders, Water Boyes, Steel Sew Frames, Pumps, Tanks, Ste. 690LD, SHAPLEY & MUIR CO., LID. Brantlerd, Winnipeg, Regina, Calgary, DEAL WITH

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Farm & Dairy's Advertisers

An American visitor to England w. States and the Country, "said he boastfully, "the soil is or lich that if you stick a nail into the ground, the next merging it has grown into a cowbar!" "Yes, I know," said the Englishman, "but in this country we use a tack for that purpose!"

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Clean milk commands top prices. But, to pro-uce "Class A" milk, duce you must have sanitary stables and milk houses.
Natco Hollow Tile walls are the last word
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Can be easily seen if you will study these three pictures for a minute. They show three pictures for a minute. They show three great big advantages of O.K. Stanchions.

Just notice the construction of the lock. The wide mouth makes it easy to insert the swing bar. The catch is simple yet secure. Made of the best malleable iron and constructed on the combination spring and gravity plan. This ensures perfect service, even after years of use—one of the main reasons for the popularity of

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Stratford, Ontario

HORTICULTURE

Orchard and Garden Notes

Don't plant seed too deep

Don't plant seed too deep.

Watch the ventilating and watering
of the hotbed closely these days.

Plum trees do well in the poultry
yard and chickens enjoy their shade

on hot summer days. Start a few pots of sweet peas for field planting as soon as the weather

Be sure all cuts made in pruning trees or shrubs are clean, smooth cuts. They will heal easier.

Sow parsley in a box or pot for transplanting outside when the weather permits. sure that you have good strains struce, onions or cabbage if you

of lettuce, onions or want the best yields. Look over plum and cherry trees for signs of black knot or other dis-ease. Remove the disease as soon as

Go over the orchard and lawn trees and take out all dead wood and do other needed pruning.

Bird houses should be made and

bird houses should be made and put up this month. Keep a few near the house. The birds seem to prefer these, since they feel that they are protected.

Nearly all the large cities are paying more attention to vacant lot gar-dening this year than ever. The wise farmer will also have a good garden

Plan for a fall garden as well as one in early summer. Radishes, let-tuce, beets, rutabagas, tomatoes, cabbage, etc., are relished just as much just before the ground freezes as in early spring. Plan to have them.

The McIntosh Apple

THE McIntosh apple was originated with John McIntosh, Dundala, Dundas Co., Ont., in 1796, the first tree remaining alive until 1908. The fruit is above medium, roundish, slightly ribbed; skin, pale roundish, signby reboed; skin, pale yellow, almost entirely covered with crimson, dark on sunny side and brighter on rest of fruit; dots few, small, yellow, distinct, but not con-spicuous; cavity of medium depth and width; stem short, stout, someand width; stem short, stout, some-times medium length and moderately stout; basin narrow, almost smooth, medium depth; cally partly open; flesh white and yellow, crisp, very tender, medium, depth, with a prightly, with a pleasant aromatic flavor; core of medium airs, open; quality very good to best; has a strong aroma: season November to strong aroma; season November to February, or later, and earlier in the season in the warmest parts of Canada; tree, hardy, and a strong, moderately upright grower.

Spring Work on the Lawn

WITH the opening of spring many people find their lawns in poor condition, due to the winter killing and the heaving caused by freezing and thawing throughout the win-ter months. The trouble may be eas-ily remedied if taken in time. It is necessary that any work done on the lawn should be done very early in order to have the best results, other-wise, the seed is likely to fail to germinate.

During April, the ground, when During April, the ground, when free from snow, will contain a considerable amount of moisture, and at this time the lawn should be thor-oughly raked to remove all the dead grass and refuse from it. The grass seed may then be sown over the bare spaces, or as many people prefer spread a little over the whole area. The seed should then be rolled in.

Doing this work early is essential,

as it assures moisture. snows that we have from April on, will in no way injure the seed.

A cood lawn mixture may be pur-chased, or the seed may be purchased separately and mixed. A good mixseparately and mixed. A good mix-ture is one part white clover to three parts of Kentucky bluegrass .- J. J.

An Orchard That Pays

NEIGHBOR of mine last year sold \$10,000 worth of fruit, chiefly apples, from ten acres of ground. He is a good cultivator. He prunes and sprays according to the well-known rules, that is all. His land is good land, but no better than tens of thousands of acres in Ontario. He took from 60 Northern Spy apple trees an average of \$50 a tree. A friend of mine rented an orchard of Northern Spies, 12 acres, from the farmer who had reared it and became discouraged when the orchard was about 20 years of age because it had not paid. had not cared for it. My friend pruned and sprayed it, and in the second year of his lease sold \$6,000 of Spies from it, and has taken repeated crops since of equal value.

What finer asset can a father leave his son than a 20-acre orchard planted his son than a 20-acre orchard planted with fine sorts of apples, of which the Spies only get to their best at the age of 30 and will produce for genera-tions, conditions being right? Such an asset would be worth more than a very large life insurance policy, and would also be a source of revenue instead of a constant drain all one's life, to be realized upon only by one's heirs, and perhaps then dissipated in some risky venture .- E. D. S.



Leg Weakness in Chicks

ROOD chicks that are closely housed and fed too heavily are very likely to develop weight too fast in proportion to their strength. Unsteadiness in the walk is first visthis teaches in the walk resting and ible, followed by frequent resting and sitting, particularly while eating.

A change from a forcing ration to

non-forcing ration, as well as change from a heavy feed to a light change from a nearly reed to a light one, is essential. The substitution of bran, wheat, and oat meal for corn meal and corn, and the addition of bone-strengthening materials, such as skim milk, green feed, and commer-cial dried bone, remedy the ration. exercise and more room must also be given

Care of Young Turkeys

ACK of vitality and hardiness in the stock is one of the greatest difficulties in successfully handling turkeys. Bronze turkeys are the largest and hardiest of all domestic varieties

Here are some pointers for turkey raisers:

1. Lice cause great loss in turkeys. i. Here cause great toss in turkeys. Kill them on the hens and on the young turkeys with insect powder, applying once a week when cooped

2. Turkeys do best when kept sep-arate from chickens. If the two are kept together the turkeys are likely to take chicken diseases.

3. The growth of turkeys is rapid.
Give plenty of nutritious and easily digested food. For the first five days feed four parts of bread crumbs and one part of boiled eggs. Feed one meal a day of rolled oats and give all the sour milk they will drink. Change

gradue parts o with ro until m parts in parts. 4. Ac whells o stry. 5. Giv

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prevent food or coming trouble Plenty gether food, most car 7. If y them to oughly v Always weather 9. Dan ly foes t

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N some eggs c not ge to them, grain, and has to go breeding and there the pen fellow, an hens, he they so d advances. ly fertilize the male r unable to tention, condition of

It will cos to raise the will to gro will not onl wholesale r ily in shri say that th ment in th that now co and say th been influer collect poul can pay a quality of more money

More Wy broilers espe try farms th Rhode Island factory broil Plymouth Re for roasting broilers. Le looking broile cockerels are purpose and gaining the Brahma chi-broilers at tw after that the and are too feathers on th market appea

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gradually and in three weeks feed six parts of wheat and two parts of corn, with rolled oats once a day. From the time the birds are ten weeks old until maturity, give: Wheat, 10 parts; whole oats, 2 parts—increasing to 10 parts in two weeks; cracked corn, 10 marts.

4. Access to fine gravel, crushed

shills and broken enarconi is neces-stry.
5. Give plenty of green food. It prevents digestry troubles.
6. Black or red pepper and ginger in food or drinking water aids in over-coming chills and prevents bowel trouble, especially on cold, damp days. Plenty of grit and oyster shells, to-gether with well-selected, wholesome food, eliminates this necessity in worst cases.

most cases.

7. If young turkeys get wet, take them to a warm room until thoroughly warm and dry.

8. The more exercise the better.

Always give free range in dry weather if nossible.

Always give free weather if possible. Dampness, lice and filth are dead-ly foes to young turkeys.

Breeds and Breeding

In some cases the cause of infertile eggs can be traced to the male bird not getting sufficient food. In his care for the hens and his gallantry to them, he allows them to eat the erain, and if the supply is short, he supply is short, he made in the same that the supply is short, he fault may short rations. Again, the fault may short rations. Again, the fault may be too few and there may be too few and there may be too few the pen. If the male is a vgr the fellow, and he be allowed too few hens, he will so harass them, and they so determined to fight off his advances, that the eggs will be poorly fertilized. On the other hand, if y fertilized. On the other hand, if the male rate of the same the proper attention. It is the massary to study the condition of the male bird in mating.

It will cost the farmer no more money It will cost the farmer no more money to raise thoroughbred poultry than it will to grow scubs. The purebreds will not only bring more money in the wholesale market, but it is a fact that poorly graded poultry lose more heavily in shrinkars than do those the poorly graded poultry lose more heavily in shrinkage than do those that are of pure blood. Commission men are of pure blood. The poultry is a marked improvement in the quality of the poultry that now copies to the city markets, that now copies to the city markets, that now copies to the city markets, that now copies to the cut of the poultry that now copies to the collect poultry from the farmers and collect poultry from the farmers and put it to the market. The shippers can juy a higher price for a better can ally a higher price for a better come money, for the reason that they get better returns.

More Wyandottes are used for broilers eapecially on the large pouttry farms than any other breed. The Rhode Island Reds make very satisfactory broilers and roasters. The Plymouth Rocks are better adapted Plymouth Rocks are better adapted to the state of the proposed of the proposed of the state of the proposed of the

We get Farm and Dairy every week and think it is a fine farm paper. There is a little of everything in it. I do most of my own sewing and usually farm and Dairy patterns. They sure are a perfect fit—Mrs. Alex. Me-Cormack, Addington Co., Ont.

IN ENGLAND

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By George A. Gall, Manager of Circulation, Farm and Dairy.

anxious were they to get along that hard with their hands they have no they both worked almost night and energy jeft to think or plan. They day. The young farmer was up and, are tired physically, their brains re-at it before daylight, with seldom an fuse to work. Consequently, much evening's rest or recreation.

At thirty he was an old man, and went to his grave without a realiss. Planning. No time is taken to become work," and a neighbor in extended of a young farmer in Eastern Ontario had been too busy with his hands to recently. Forest accessing revealed the fact that a few yoars ago this He was one of the mount of the work of the sudden death of a young farmer in Eastern Ontario had been too busy with his hands to seh is brain to find out such things could have good farm Journal should young fellow, with his bride, had "no time to read." Many others are week. The dairy farmers' trade paper moved onto a wornout farm. So repeating his mistake. They work so is Farm and Dairy. Any person who

work is done in the poorest way

induces a dairy farmer to take and read Farm and Dairy is conferring an inestimable benealt on that farmer and his family. No better reading can be placed before all the members of the farm home. He benefit and farm home. Its honest and sane opinions on better farming, bet-ter homes, and cooperation, are well worth the time taken to read them

The following statement included in a letter from one of our Maritime readers is to the point: "Farm and reacters is to the point: "Farm and Dairy is the best paper I ever saw, and I should like to write you a page combinementing you, but will content myself with saying that your ideas on all economic questions seem to me to be just what we need now. Your distribution is a page of the saying that you'll be saying the property of the saying the property of the saying the sayi to be just what we need now. Your coltorists in regard to the tariff meet the issue fairly and honestly, and if we could only get more of that doctrine preached it would be the salvation of the la.d. The people will find it out one of these days, and I hope then will come the day of "reckoning."—E. P. Weltcomb. Garacters. N.P. -E. P. Whitcomb, Gagetown, N.B.

The department devoted to the United Farmers' Association is one of the important features of Farm and Dairy. The linking up of the different provincial associations into different provincial associations into an organization known as the Canadian Council of Agriculture, and the aims and objects of this Council is one of the most important things in Canada today. This is a great forward movement of farmers for farmers and warve progressive wast needs ers, and every progressive man needs to keep well posted on what is doing in this connection. Farm and Dairy has always been an ardent advocate has aways need an arrent advocate of cooperation among farmers, and ever since the inception of the United Farmers of Ontario some three years ago has given that farmer organization its whole-hearted support.

The women folk are finding the Household Department of Farm and Dairy more and more interesting. The serial story now running is sold in book form at \$1.25 to \$1.50; more than the entire price of a year's sub-scription to Farm and Dairy. The other features of the Household De partment, dealing with discussion of the individual problems of everyday life, farm recreation, tested and eco nomical recipes, the work of women's organizations, etc., are warmly welcomed by the women in the rural

But the biggest feature of this paper is the Dairy Department. The business of dairying will never be business of fair and Dairy. It is the business of the majority of its readers. The other departments, with new ideas, new ways of saving with new lucas, new ways of saving and making money, and the splendid articles of general and special inter-est, are valuable, but always first and foremost is dairying. Full reports of what is done in the different breeders' associations—Holstein, Ayrshire, Jersey, etc.—are fully recorded in Farm

Our experience has been that the Our experience has been that the price of the publication does not make much difference, provided we give the reader what he wanta. This is the aim of every person in every department of Farm and Dairy. We make every reader of Farm and Dairy to constitute himself or herself a "win one" club and introduce Farm and Dairy winto the lives of chers who will Dairy into the lives of others who will be benefited by it.

Cooperation is the watchword of the farmers of Ontario to-day, and why should the dairymen not organize in handling their products after the same handling their products after the same manner as the grain growers of the west? Why not store our cheese and butter cooperatively; sell cooperative ly and thus bring the producer in Can-ada and the consumer in Great Britain Logather, and aliminate to a certain together and eliminate to a certain extent the greatest factor in the high cost of living—the undue profits of the middlemen?—L. A. Pearson, Thames-

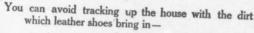


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A D H Ow shot Our or From n roots, perhap eil cake \$50, 70 to 75 cents ance a ration the roots fall, by soaking dins forward three weeks restless, and them.—R. W.,

It is extre

milk product Buch prices. urchased in 1916 when preasonable. dairy cows bran two part finely ground ton seed mea pound for eve duced, should cows yielding milk. If a hi grains can be able figure I feed be used t oats and cotto mixture bran, one pr tillers' grains, and one part these meal mi conjunction w ed, approximate out straw five 1,000 pound ee Soaked, dried fair substitute

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Feeding Cows for the Dairy Test

A Successful Competitor's Methods---W. H. Cherry Haldimand Co., Ont.

It is extremely difficult to make milk production profitable with meals to be purchased at present market or swine there still is an excellent prices. Bisuh feeds shumer and fail of the summer and fail of t

M Successful Competitor's Melhods—W. Pl. Cherry Flaidimand Co., Ont.

WING to the fact that I have had ensulage. It might be advisable to add considerable experience in hand. a little molasses to this pulp. The little goes while in competition feeding of your dairy cows in the barn at the Gleight and Ottawa Dairy Tests for two or three weeks in May is an Falira at these places, I thought a few milk flow, but even more so to give milk flow, but even more so to give the pastures a good start and thus good with the willing cows while in test would not come successful the pastures a good start and thus halles. ensure greater carrying power for the balance of the summer.—E. S. A.

PLEASE give me some advice on the care and feeding of a pure bred Clyde stallion for the next few months.—Jockey, Ontario Co., Ont.

suggreations as places, I thought a few bing even while to the medibods of feet ing even while to the medibods of the companies.

Before going to the trouble of shipping eows to Guelph or Ottawa, it is well to know that you have a good, heavy producer, and also that a was in good condition, because the cultion is generally so keen that conditions used to be as right as possible, and are competitioned to be as right as possible, and the competition is generally so keen that condition, it is made to be a good test and the state of the competition of the competition of the condition, it is an ecompetition of the competition of the comp The overfed, over fat stallion is not The overfed, over fat stallion is not only subject to many aliments, but is usually an uncertain breeder. The high percentage of mortality amongst stallions due to this cause alone. On the other hand the over worked thin stallion along the sirrility and generally produces foals deficient both in size and vitality. Every stallion should be and vitality. Every stallion should be yearful feeding and regular expressions of the stalling of the sta well prepared for the orecome sensor, by careful feeding and regular exercise. The best ration for this purpose is composed of clean hay, oats and have together with a regular, but is composed of clean hay, oats and bran, together with a regular, but limited supply of salt. Many stallion owners flud it advisable to crush the oats for this purpose. Also many feeders prefer cutting the hay and sprakings with molasses. The feeding, of bran mashes or soaked grain once of bran mashes or soaked grain once of wise a week with an addition of

A Dairy Grain Ration

How should we feed our dairy herd?

Almost 442 a ton. Weight a dament 442 a ton.



HINMAN **MILKERS**

MEET ALL REQUIREMENTS Of a Good Milking Machine

These are as follows:-

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The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

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

Will You Want Labor?

HE Ontario Department of Agriculture is going to deal vigorously with the labor situation in rural Ontario. Already they have established a Public Employment Bureau Through advertisements in farm papers and other mediums of circulation, this Bureau is endeavoring to find just where labor is needed on the farms of the province. Any of Our Folks who are in need of additional help are urged to fill in the blank form as found on the back cover of our issue of last week and mail It to the Department.

To secure the help that will be necessary to fill the numerous applications that will be received, every available source will be drawn upon. Experienced farm help will be limited. The Bureau, however, proposes to make itself the clearing house for high school boys, business men on their holidays, and help that may be brought in from the United States. No matter how willing the citizens of our towns and cities might be to help, this will to serve would be of little avail were there not some way of pringing the farmer and the worker together, and the Provincial Employment Bureau seems to be the model instrument for this purpose.

The Dairy Standards Act

HE Ontario Dairy Standards Act failed of acceptance among the dairymen of the province, partly because of the manner in which it was introduced and partly, too, perhaps, because the time was not yet opportune for its adoption. It was noticeable, however, that at district dairy meetings, where the act was at first bitterly opposed, when the justice of its measures had been explained, it met with the ready acceptance of the meeting. The majority of cheese factory patrons however, were not at these meetings, and before the act will meet with ready

acceptance these patrons who seldom attend meetings of any kind must be reached in some manner and given a correct understanding of the provisions of the act. How is this to be done?

Elsewhere in this issue, Mr. J. N. Paget, of Haldimand Co., Ont., makes an excellent suggestion. According to Mr Paget's plan, all cheese factories in the province will be required to purchase sampling outfits, which cost but little, and take samples of each patron's milk for several months during the summer. The dairy instructors in the course of their visits to the factories would test these samples and each patron would then be given a statement showing just how much money he would get were he operating under the Dairy Standards Act. Such a practical demonstration of the working of the Act, were it in force, would do more to remove prejudice and educate the dairy public generally than any number of meetings. It might lead many factories to adopt the test voluntarily that are now following the old pooling method. It would prove to thousands that the principles underlying the Dairy Standards Act are essentially right and just.

Cost Accounting

OST accounting has played a prominent part in the development of one of the most profitable dairy herds in the province of Quebec, that of Edwards and Alexander at Hillhurst. This herd is well known in the show-ring of eastern Canada, and there are few herds of the same size that can boast of as high an average butter fat production. Fifteen years ago, however, this was an ordinary grade herd of mixed breeding. In the intervening period the herd has been steadily improved with the best sires of Jersey blood, purebred females have been added, the annual profits per cow have been increased from \$17.80 to \$90.10, and the annual production per cow from 200 lbs of butter to 456 lbs.

Good breeding and proper feeding, of course, had much to do with the improvement of this now well known Jersey herd. Of almost equal importance, however, was the system of cost accounting. In the herd ledger there is a separate account kept with every cow, in which she is debited with her feed and credited for milk and fat production. Breeding selections are made on the basis of profits, and all that do not show an annual profit of \$50 a year or over, go to the butcher. Elsewhere in this issue Mr. Alexander. who is now proprietor and manager, tells of the? cost accounting system in detail. His letter is worthy of the careful consideration of every dairy farmer who is striving for herd excellence.

Notes and Views

HE British Government is going to develop British agriculture. Britain is to be made to feed herself. If the effort is successful, and we see no reason why it should not be, where will Canadian farmers dispose of their surplus of dairy products and grain which heretofore have gone largely to Britain? Will not Reciprocity then become a vital necessity.

Canadian millionaires with fortunes of mushroom growth are afraid that farmers are making too much out of the war-blood money they call it. Farmers who work from early morning to late night for returns that have not increased in greater proportion than the labor expended are more apt to call the surplus-sweat money.

Combinations that really restrain trade are numerous enough in Canada to make living higher here than in any other country in the world. Our protective tariff is likewise one of the highest in the world. Does the second fact explain the first?

Standing by the United Farmers

O question is being more keenly debated in the local organizations of the United Farmers of Ontario than whether or not locals should do all their buying through the United Farmers' Company, or through private concerns or local merchants, when they find that they are able to purchase goods to better advantage by so doing. A considerable percentage of the membership is in favor of all the business of the locals being done with the Central. Others feel that it is unfair to expect their members to pay higher prices for goods that can be purchased to better advantage elsewhere.

The question is an important one. It affects the welfare of the whole movement. Experience has shown that not infrequently, in fact very often, local dealers and even large provincial companies offer locals better prices than the locals can purchase the same goods for through their own company. This is done for the purpose of winning the trade of the farmers away from their Central, and thus injuring and possibly killing the united farmers' movement. It would be folly, therefore, for farmers to let themselves be caught in such a trap again. They have been so caught on too many occasions in the past. On the other hand, it sometimes happens that the local dealers or other business concerns are so situated that they are able to give better service and better prices to locals than the Central Company can furnish. It would hardly seem right under such circumstances to ask the locals to penalize themselves in order to support the Central.

The following is probably the best solution of the difficulty. Whenever a local finds that it can purchase goods to better advantage in some other quarter than it can through the provincial farmers' company it should, whenever possible, send the order direct to the provincial company and ask them to make the purchase for them. In nine cases out of ten such action would show clearly whether or not the lower price was offered with the object of injuring the movement. If it was a competing firm it would hesitate and probably refuse to recognize the order when sent through the Central Company. A refusal on their part would reveal their real object in making the low offer to the local. If, however, they filled the order, the Central would naturally expect to be able to purchase additional goods at the same prices, or approximately the same prices, for other clubs. This would enable the Central to improve its purchasing connections and, thereby, to assist other locals. Action of this kind would be of great assistance in developing the work of the Provincial Farmers' Company.

Another method has been suggested by an officer of a farmers' club in Wellington county. His proposal is that when a club finds that it can make \$25 or so more by ordering a car of corn or oats from some business concern other than the farmers' company, it should use this extra profit to purchase extra shares of stock in the provincial company. This is an excellent suggestion. If these low prices were offered with the object of injuring the provincial company the action of the local in using the profit to strengthen the Central Company would ensure the defeat of the purpose and result in the action of the competing firms building up the Central Company in stead of weakening it.

Whether or not clubs adopt either of these suggested methods it will confer a real service on the Central organization if they will always advise it whenever they can purchase goods cheaper elsewhere than they can through it, and at the same time given the Central the prices they have been quoted, and also the names of the firms who have made the quotations. This would keep the Central Company constantly informed as to what its competitors were doing and enable it to meet their competition to better advantage.

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In Union There is Strength

More Locals Formed

HE deep interest the farmers of Ontario are taking in the United Farmers' their willingness to support it is shown by the readiness of farmers in districts where meetings have not aldistricts where meetings have not al-ready sheen falt, to organize when-ever addressed by speakers represent-ing the U.S.O. On Monday of last week President R. H. Halbert, of the U.F.O., addressed a meeting at Hut-tonville, Feel county, in the after-noon, and at Stewart Town, in Halton county, in the evening. 44 both solitate noon, and at Stewart Town, in Hallon county, in the evening. At both policy, in Hallon county, in the evening. At both policy were formed. Huttonville local starts off with a membership of \$4\$, and Stowart Town with a membership of \$3\$. Both locals purchased share of stock in the United Farmers' Company, The same evening Secretary J. J. Morrison and Mr. L. H. Blatch ord, of the United Farmers' Company, addressed a meeting at Wexperior, where another local was formed ford, where another local was formed with 21 members. Similar meetings with 21 members. Similar meetings are being held at numerous points are and with practically similar results

One interesting feature of the meetings that are held is the readiness with which the farmers who attend the meetings contribute towards the the meetings contribute rowards the expenses of the speakers. At several meetings addressed by President Halbert during his recent trip in Essex and Kent counties collections were taken towards defraying his expenses, with the result that count money taken towards defraying his expenses, with the result that enough money was raised in this way to pay his enter expenses for the trip. This, naturally, is a big help to the provincial corganization, and makes it possible to estand out more speakers, and therefore send out more speakers, and therefore to organize more locals. Such action to organize more locals. Such action to organize more locals. to organize more locals. Such action is all the more appreciated because the U.F.O. does not receive any government grant, and thus is free from government control of any kind. It is the farmers' own organization.

Legislative Matters and the U.F.O.

A T a mectury of the executive committee of the United Farmers of Ontario held in Toronto, Marce 7, a number of Important matter and the control of Important which the interests of the farmers of the province are closely identified, were considered. It was thought well that a committee about wait on Premier Heart limself in reference to the Government's bill relating to Premier Hearst himself in reference to the Government's bill relating to cooperative societies, which had had its second reading and was about ready for its third reading. A depu-tation, therefore, waited on Premier Hearst and were much pleased with the recording they resolved. They the reception they received. They found Premier Hearst reasonable in his attitude, pleased to obtain their views and apparently willing to make any reasonable amendments to the bill. He stated that the bill had not

been drafted by himself but by offibeen drafted by hinnelf but by offi-cials of the Department of Agricul-ture and it was introduced by the Government on their recommenda-tion. He did not promise that the would be withdrawn at this session of the Legislature, but stated that he would see withdrawn at this session of the commendation of the considered in putation were carefully considered in connection with the final reading of connection with the final reading of

the bill decide to should be Government decide to showed with the passing of the bill at this session of the Legislature it at this session of the Legislature it may become necessary for the United Farmers, through their locals in all parts of the Province, to interview their local members and urge that the bill she held over for at least one session. While the Government has sion. While the Government has oil oe heid over for at least one session. While the Government has amended the bill so that it will not apply to the United Farmers' Cooperative Company, Limited, this amendant is a constant of the company of the co tive Company, Limited, this amendment is not entirely scattered; in assume has it will apply to all new companies that will be organized hereafter. If the farmers of Ontario follow the example of the farmers in western Canada it is almether likely that a considerable method for the farmer of the companies of the United Farmers' company will be considerable or instance, the United Farmer or instance, the United Farmer or instance, the United Farmer of the considerable of the conside ment is not entirely satisfactory, inpose another subsidiary company may need to be formed. All these sub-sidiary companies would come under sidiary companies would come under the objectionable features of the proposed new here the control of the proposed new here the control of the proposed new here the company itself has been climater? Company itself has been climater? Company itself has been climater that he had does not overcomed to the here the here the companies of the here the proposed of the companies of the companies of the companies of the control of the companies of the controlled as to how their surplus funds shall be expended and be controlled in other similar ways.

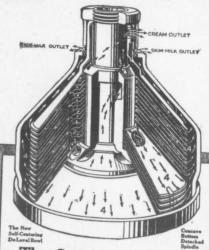
After the deputation had waited on the Government the following resolu tion was passed and sent to Premier

"Whereas we realize the need for comprehensive legislation providing for cooperative societies and appreciate the good intentions of the Proate the good intentions of the Pro-vincial Government in proposing the present bill, and whereas we object very emphatically to certain clauses in the bill as now drafted, which obin the blir as how draited, which object very emphatically to certain clauses in the bill as now drafted, which objections have been fully explained to the Department of Agricul-

"Be it therefore resolved that we (Continued on page 27.)

Enlist -

The Provincial Government is making every effort to supply our Ontario farms with labor during the coming season that our production may be as great as possible. Enlist their co-operation in helping to man your farm. Use the coupon on the back cover of last week's issue, placing the information in their hands just as early as possible. Do it now. Be on their list early so that when the busy season comes you will be provided.



The Supremacy of the

HERE may be some question as to who makes the best wagon or the best plow or the best watch, but when it comes to cream separators the supremacy of the De Laval is acknowledged at once by every fair minded and impartial man who is familiar with the cream separator situation.

It outlasts and outwears all other makes by fsr, and can be run with much less cost for repairs,

Thousands and thousands of tests, the world over, have proven that the De Laval sizing and the cleanest. The construction of the New De, Laval sizing it is class by hield.

Laval keeps it in a class by hield.

Laval keeps and outsease all tabor.

The New De Laval has greater capacity than the 1916 style, is simpler in construction, has fewer and interchangeable discs, is easier to wash, and the skimming efficiency is even greater.

Each New De Laval is equipped with a Bell Speed Indicator.

Order your De Laval now and let it begin saving cream for you tight away. Remember that a De Laval may be bought for each or on sold liberal terms as to save it no sun cot. See the local De Laval agent, or if you don't know him, write to the nearest De Laval office as below.

New Catalog will be mailed upon request

THE DE LAVAL COMPANY,

LARGEST MANUFACTURES OF DARRY SUPPLIES IN CANADA SALE AND ASSALE A MONTREAL. 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

DON'T ADVERTISE IN FARM AND DAIRY Unless You Actually Want to Sell

"Dear Sire:

"Please discontinue my ad. In your paper as I have sold both the buil calves and also the heifer which you advertised for me In your Issue of February 22nd.

"Yours sincerely, "(Sgd.) ANTHONY GIES."

Such results as these have been coming through to our Live Stock Departbetter than week to week during the present winter season. It tells you
there than we could in any other way the rearm and Dairy is reaching
of dairymen and dairy stock breeders require females for
foundation cock and good airse as herd beaders. For our make sales for
what you have to ofter by getting in touch with our Live Stock Department.

FARM AND DAIRY PETERBOROUGH, ONTARIO

FARM HOMES

(20)



RUE education always must have the thought of God in it.

Winning the Wilderness

(Continued from last week.)

for fording.

only a short distance when Asher, who was nearest the creek, halted The bank was steep and several feet above

Asher pointed to a carcass lying out of the water on a pile of drift where the stream was narrow, but too deep

for fording,
"Maybe some dog killed it and the
carcass got into the creek. My sheep
can't get to the water because
pasture is fenced. That's on Wyker's
side, anyhow. I won't risk fording to
get over there. It's as dead right now
as it will ever be," Jacobs asserted.
Their trail grew marrower and more
secluded, winding up a steep hill be

Synapsis of Preceding Continued for On Riersturn forecasting Continued for Aydeot, the hero of the stuff War, Ashe of a settle down on his father's farm and any active down on his father's farm and any active forecast of the stuff of the stuff of the stuff of a little enemy of the Aydeother. If father dishinerist him, but he made the stuff of the stuff of the stuff of the stuff of the Aydeother. If father dishinerist him, but he westward to the K. June Shirley, have the stuff of th

AM hoping to have only thoroughbreds some day. That's a good horse you ride," Jacobs re-

Dited.
"Yes, he has a strain of Kentucky blue-blood. My wife owned a thoroughbred when we came West We keep the descent still. We've never been without a black horse in the stable since that time. Do we turn here:"

They were following the lower trais by the willows, when Jacobs turned abruptly to a rough roadway leading up a shadowy hollow.

"Yes. It's an ugly climb, but much shorter to the sheep range and the cattle are near."

"How much land have you here.
"How much land have you here.
"Thow much land have you here.
"From Little Wolf to the corporation line of Wykerton. Five hundred
tacobs added. "This creek divides
Wyker's ground from mine. All the
nt is measured by links and chains.
Wyker's ground from mine. All the
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and made a swift movement toward this opening in the bank, as if to clamber down from their sight. She was not quick enough, however, and when she found she had been seen, she waited by the roadside until the men had passed on. Asher, who was next to her, looked keenly at her as he bade her good norning but John Jacobs merely lifted his hat without giving her more

than a glance.
The woman stared at both, but made The woman stared at both, but made no response to their greetings. She was plainly feeased, with a black scarf tied over her tow-colored hair. She had a short club in one hand and a big battered tin can in the other, which she seemed anxious to conceal which she seemed anxious to conceal when the men had passed; she looked when the men had passed; she looked when the mid, an upt's expression of

When the men had passed, she looked after them with an ugly expression of malice in her little pale gray eyes. "That's a bad face," Asher said, when they were out of her hearing's wonder why she tried to hide that cld sait et.1"

cld sall ct.1"
"How do you know it was a salt can?" Jacobs asked.
"Because it is exactly like a salt can I saw at Pryor Gaines' old cabin, and because some salt fell out as she tipped it over," Asher replied.

bank was steep and several teet above the water.

"Does anybody else keep sheep around here;" he inquired.

"Not here," John Jacobs answered.

"Look over there. Isn't that a tipped it over," Asher replied.
"You have an eye for details,"
Jacobs returned. "Phat was directed of dimple, Hans Wyker's give married his bartender, and is relamily of little bartenders back in the family of little bartenders back in the helps Hans run a perfectly respect able tavern in town."
"Well I may misinder her. but if I was misinder her. but if I was misinder her. but if I was misinder her.

"Well, I may misjudge her, but if ! "Well, I may misjudge her, but if I had any interest near here. I should want her to keep on her own side of the creek." Aher declared.

And somehow both remembered the dead sheep down in the deep pool at the foot of the hill.

The live sheep were crowding along the fence on the creek side of the big range when the two men entered it. "What alls the flock?" Asher asled. ey saw it following the fence line eagerly.

"Let's ride across and meet them," Jacobs suggested.

The creek side was rough with many little dips and draws hiding the boundary line in places. The men rode quietly toward the flock by the charteness of the place of the control of the co

rode quietly toward the flock by the shortest way. As they faced a hollow deeping to a draw toward the shortest way to the flow deeping to a draw toward the creek Arhen and the flow deeping to the flow of the flow and the face to the flow deeping to the flow divise had been dragged out of place, the ground was lowest that the barbod wires had been dragged out of place, leaving an opening big composite by ground through at a time. As they neared this point, Asher said:

"It's a pretty clear case, Jacobs. See "It's a pretty clear case, Jacobs. See that line of salt running up the bare scound, and here is an opening. The flock is coming down on that line. They will have a chance to drink after taking their salt,"

John Jacobs sild from his horse, and giving the salt of the sa

John Jacobs slid from his horse, and giving the rein to Asher, he climbed through the hole in the fence and hastily examined the ground beyond it. "It's a friendly act on somebody e prit," he said grimly. "The creek cuts a deep ade under the bank here. The except a print of the price of the said grimly and the cuts a deep and the many control of the cuts of the cu

rush ahead."
"They swim well, too, especially if
they happen to fall into the water
just before shearing time them their
wool is long." Asher said ironically.
"What did you say forten Glimpke
had in that tin can?" Jacobs Inquired
handly.

blandly.

"Oll of sassafras, I think," Asher re-sponded, as he fied the horse and helped to med the weakened fence.

"Nebody prospers long after such tricks. It not lose sleep over lost sheep," John Jacobs declared. "Let's sheep," John Jacobs declared. "Let's sheep," John and the scary little twist the woman and the scary little twist

sheep," John Jacobs deciareu. "Let's sheep," John Jacobs direct trail "
when the would have been the sary little twist in the creek trail"
"Why scary?" Asher asked. "Aro you so afraid of women? No wonder you are a bachelor."
Jacobs did not smile as he said:
"Once when I was a child I read a story of a man being killed at Just such an out-of-the-way place. Every time I go up that crooked, Ionescore hill road, I remember the picture in hook. It always makes me think of that story."
When the fence was made secure the two rode away to look after the cattle. And if a Shadow rode beside them, it was merefully unseen, and in owise dimning to the clear light of the spring day.

the spring day.

It was high noon when they reached
Wykerton, where Hans Wyker stifl
fed the travelling public, although the
flourishing hotel where Vi all April
flourishing hotel where Vi all April
flourishing hotel where Vi all
flourishing hotel where Vi
self all
flourishing hotel where Vi
self all
flourishing hotel where
some of the companies of the
some of the companies of the
some of the companies of the
flourishing of a narrow section across the
flux off a narrow section across the two parts, a blind partition wall cut-ting off a harrow section across the farther end. Ordinary diners went through the store into the dining room and were supplied from the long kitchen running parallel with this room.

There were some guests, however, There were some guests, however, who entered the farther room by a rear door and were likewire supplied from the kitchen on the side. But as there was no opening between the two rooms, many who ate at Wyn the rever knew of the narrow room benever the control of the narrow room benever the narrow room by the narrow room benever th yond their own eating-place and of the yond their own sating-place and of the two entrance to the kitchen covering the side of each room. Of course, the prime reason for such an arrangement lens which which willingness to evade the law and supply customers with contraband drinks. But the infraction of one law is a breach in the wall through which many lawless elewalt through the wall through which many lawless elewalthrough the wall through the wall through

When



"It's a friendly act on somebody's part," he said, grimly.

What Sort of Man

is Your

Boy Going to Be?

REMEMBER the days when youth spread out for you the accompliations of life, how often out wished you could play the property of the young the youn

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1917

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and ond it. oody & creek t the time flock for it fater, down wade them heep sever

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"I earn 2 a

When You Write-Mention Farm and Dairy

The Upward Look

An Easter Thought

ORGETTING those things which are behind and reaching forth unto those things which are be-I press towards the mark. Phil.

3:13-14

I was much impressed by what an old gardener told me yesterday. In the corner of his garden was an old covered wed, which was a most been used for many years and the content of the corner o

away, had struggled and forced their way to the rice, moister ground.

This reminds us of the miracle of fresh creating that is taking place this glorious spring. Everywhere growth is pushing on and upward to better conditions, kight and sunchine.

If this law for bettering of conditions is so strong and as general in the raw.

better conditions, light and sunshine. If this law for bettering of conditions is so strong and so seneral in the natural world, he much more so should it be in the spiritual?

No one should be satisfied unless he feels that he possess the best and the highest an life in suffers spiritual, of all that God holds in him, which is his for the simple taken him, which is his for the simple taken him, and holding. Just as naturally as those roots down there in early as those roots down there in early as the best, so naturally should we are not best, so naturally should we have the course of the sum of

How I Grow My Begonias

How I Grow My Begonias

Elizabeth Beaman, Durham Co., Ont.

A BUIT the lat of April I place

the bulbs (rough end up) in pans
of dried moss, lot when the moist.

In two or three weeks, the moist had not be a moist.

In two did not have the moist had not be a moss, lot then in rich loam.

In the moist, lot them in rich loam.

I day the the moist had not be a moist.

If they are large, a seven inch one.

When the same sunny window until the cut of the moist.

When the weather comes.

When the weather of the pots, placed in pans or dry they are ready to be taken of the pots, placed in pans or dry the pots, plac Elizabeth Beaman, Durham Co., Ont.

flowers from the dauble ones measure from seven to eight inches across. I like this kind of begond very much, for while it gives one no trouble during wind, it will bloom continuously from their city flower than the first of June until the end of September, usually reaching perfection by the mindle of July.

Lich with a good bulb (planting it light wit

"It Might Have Been

That is the disappointed cry of many a woman when she realizes that her bread or pastry with which she has taken such pains has been a failure. "It would have been all right, had I only used the right flour," she says. Is it not better to be safe-to be sure that



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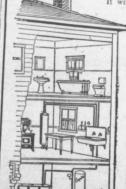
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The Message of Easter By Orison Sweet Marden.

H, the glory of the returning Spring, answering the resurrec-tion call of the great Sun god! Standing in the midst of God's great laboratory, after the awakening laboratory, after the awakening breath of Spring has swept through it, breath of Spring has the soul that is dull indeed must be the soul that is not moved by the wonder, the miracle, the beauty of it all. Cold and dead the beauty of it all. Cold and dead must be the heart that has never thrilled in response to the great diapason of Nature, when, in awakening year,

"The woods were filled so full with

Spring is the angel that rolls away the stone from the tomb in which all life has been sleeping in the grip of death. It is the call to the buried roll in the earth, to the tree, to the plant, to burst their grave clothes, cast off the Winter death shroud, and come forth to new life, to blossom forth into new beauty.

'How fitting it is that Easter, the great festival great festival of the resurrection, should be celebrated in Spring!

There is a marvel of significance for all humanity in Easter Day. It re minds us that death is not the end that life has triumphed over death.

The rebirth of Nature, the struggling toward the light, the vigorous

effort for self-expression of the my-riads of seeds which have been buried in the earth for months, is symbol of our ascending life.

As Spring awakens the seeds of new promise, new hopes, new expec-tations, new joys, new growth, new beauty in Nature, so Easter comes to song
There seemed no room for sense of and fuller life.

Spring!

C. W. Jakes, Grenville Co., Ont.

OME away to the meadows, frolic and sing!

Hark to the sounds that awaken and

At noon-tide, and even, and flush Bursting with songs of joy, triumof the morn!
Telling of Spring! Telling of Trilling and warbling in rolleking

Skies of soft asure, of blue opales-

Crossed by wee cloudlets, balmy Skies of Cloudlets of leisure of soft adoles-

That linger and flutter and pass out of sight, Telling of Spring! Telling of

Spring! Balmy and sweet are the warm winds

that hover Breathing of uplands now fast growing green;

Whispering the story from forest and cover, Of wakening flowerlets, and gay,

gurgling streams.
Telling of Spring! Telling of

Cold winter's fetters are broken From thicket and hedges, from treetops spread o'er us

Sings the bold robin, so happy and

glee! Telling of Spring! Telling of Spring!

soft azure, breezes that whisper.

whasper,
The singing of birds, and the murmur of streams;
These are heralds of Winter's
fair Sister,
Awakening old Nature from long,
Areamy drawns dreamy dreams,
Telling of Spring! Telling of
Spring!

So, come away to the meadows, frolic

and sing! old winter's fetters are broken and torn; Cold Hark to the sounds that awaken and

ring, t noon-tide, and even, and flush of the morn! Telling of Spring! Telling of Spring!

HOME CLUB

When Dreams "Come" True

OR a long time it has been my desire to have a shirtwaist box for my bedroom. Even though I have a good-sized clothe closet and a dresser with several drawers, in my room, I have felt the need of such a box and just recently my dreams came true.

One reason why I have not had this one reason way I days not man this box sooner has been that in looking around I had never come ccross one which I considered the right size. Finally I made a trip to our garret.

"Whenever you are absolutely stuck
for something you need, go to the garret," is not my motto, but it seems to work very well at times. My findto work very well at times. My find-ings in the garret proved to be even better than a box. I located an old-fashioned trunk about four feet long and 18 inches deep with a flat top, and I decided it would fill the bill nice-ly.

Cretonne makes the best kind of covering for a bedroom box and I se-cured some which harmonized with the wall paper and side curtains. When putting on the cretonne a little fullness is necessary around the sides and ends of the box or trunk, so I bought enough material to go just twice around the three sides and this twice around the three sides and this allowed for the necessary fulness. I box plaited the material, but not very full, plaiting and tacking with brass-headed tacks as I went along. Padding the top is not necessary, but I padded mine a little and also tacked a heavy usee of cotton year it before a heavy usee of cotton year it before padded mine a little and also tacked a heavy piece of cotton over it before putting on the cover, to prevent wear. The top piece was also tacked on with brass-headed tacks. Some people line the inside of their boxes with the same material as the

outside, but I have been told that it is rather difficult to do it neatly. Others paint the inside white. I took new sheets of brown paper and lined mine, first sprinkling in a little lavender, and it looks very well indeed.

Last of all, I purchased a brass handle, so that the top is easily raised and lowered.

and lowered.

Taking everything into consideration, I am quite proud of my new
shirtwaist box—so proud, in fact, that
I wanted to tell Home Club members
all about it.—"Sister Mac."

Celery may be blanched (whitened) Coury may be blanched (whitened) by leaving dirt up around the stalks or by placing boards along the rows. Sometimes drain tiles neet over each plant to advantage. These are also several kinds of patent paper or wood bleachers.



Canada's Standard - Car

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Plan of

set and seve cate china a neath are for board space built the apa er day that I ium

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A Glimpse of City Life

R. M. McKee, Household Editor. RECENTLY, new apartments were receted adjoining the offices of Farm and Dairy, and naturally

nection with apert-ments of course is the conservation of space. If we who are accustomed to the large farm houses were suddenhouses were sudden-ly transplanted to a small suite of rooms, it would take us some time to get ac-customed to what we would consider "graymed quarters" "cramped quarters." Are there not times, however, when we wish that our farm houses were not quite so large and thus eliminate great deal of hard work which is necesin order to sary order to The apartments adjoin our are not an offices exception to the rule by any means in re-gard to the conserving of space and yet they are quite homein appearance.

like The first thing to attract one's attention upon entering these ments is the built-in buffet. ments is the built-in buffet. When we saw it we stepped across the hall to our offices, got a camera and tood the picture shown herewith. Since we snapped it, leaded glass has been put, in the doors of the terrority the picture snown nerewith. Since we snapped it, leaded glass has been put in the doors of the top cupboard and the china does not show quite so plainly, the effect is good. As (3) If shallow pans are used, they will be noted, there is quite a deep must be shelf or table below the top cupboard shelf or table below the top cupboard and free from dust. be attractively arranged. In lustration a cut glass set, a In the il-



Plan of a Modern City Home.

set and several other pieces of deli-cate china are tastefully placed. Be-neath are four drawers and more cup-board space. The contractor built in built the apartments told us the oth-er day that he considered that bur

one of the nicest pieces of furniture he had seen for some time. It is fin-ished, of course, to match the other woodwork in the room.

received adjoining the offices of Farm and Dairy, and naturally we were rather interested in watching their progress and completion. Several times we "peeked" in the door at least of how they are laid out. No watch developments and finally window is down in the dining room, were allowed to go in and look were allowed to go in and look of the main features in confidence.

"The first thing to attract one's attention upon entering these apartments is the built-in buffet."

21 Points on Butter Making

apart Alex. McArthur, Simcoe Co., Ont. In the care and use of milk, the first great essential is cleanli-

and free from dust.

(1) Separator cream must be cooled before being added to the cold cream already collected.

already collected, (5) No cream should be added within 12 hours in summer and 24 hours in winter before churning, be-cause all the butter fat cannot be ex-tracted from cream that is not fully thorough.

(6) Stir cream from bottom to top

(6) Stir cream from bottom to top every time fresh cream is added to that in the crock or can.
(7) In riping cream for churning, let us develop a mild acid flavor rather than one too sour. The public taste demands the mild flavor. than one too sour. The demands the mild flavor.

(8) If using a starter to assist in (8) If using a starter to assist in the ripening, use only well-flavored buttermilk, or fresh skim milk heated to 70 degrees and kept warm till sour. When enough cream is gathered for the company of the company of the company and starter. (9) Avoid the use of too much but-

(9). Avoid the use of too much but-ter color. A pale June color is pre-ferable to a too highly colored butter. (10) Buttermilk should never be left standing in churn. The wood become-saaked with milk and aborbs bad odors and flavors.

(11) The churn should be thoroughly scalded, and in summer cooled ith water, before putting in the

(12) Cream should be strained through a fine perforated tin strainer before churning, that any bits of

before the ling, that any bits of curls may be moved.

Gurds may be removed.

(13) The emperature at which cream should churred varies according to circum characteristics, the average being from, 61 to .45 eagrees. This should bring the butternites.

(14) Drain buttermitk off butter and



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You can travel comfortably and swiftly on this road with a light buggy, a heavy wagon or an automobile, regardless of the state of the weather. The firm, durable surface is free from dust or mud.

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wash it twice in the churn, using plenty of clear cold water. In winter, enough warder should be used to take the chill off.

(15) Use the best quality of salt—planend Crystal or Window program.

Diamond Crystal or Windsor more or

Diamond Crystal or Windsor more or less suit the tasks of your customers. About three-quarters an ounce to the pound is the usual quantity. (16) Work well so the sail is thoroughly mixed through died through the butter. If not thoroughly worked, it will be motified through the butter. It make, work twice with some hours between workings.

workings.

(17) For printing, pack butter in a compact mass, smooth on top. Be sure and have but well scalded and cooled. Press will filled. Level off with lade. The square-cornered print is preferred.

(18) The best white parchment paper should be used for wrapping to the straight, fold carefully about the block of the printing the printing of the printing (17) For printing, pack butter in a

COOK'S CORNER

Use Lemons More Liberally

WHILE temons are no doubt used Mills is mones are no doubt used in many homes, still they are considered by the majority of people as a luxury rather than a necessity. But according to medical authority the lemon should hold a prominant place in our delle many on the prominant place in our delle many our delle many on the place in our delle many on the place in our delle many on the place in our delle many our delle majority of the majority of people in the majorit authority the lemon should noid a prominent place in our daily menu on account of its health-giving properties. A professional nurse once A professional nurse once told me that 29 ills were cured by igmons, so in that case we should all partake of this tropical fruit which by means of exportation and importation has been placed within easy reach of all, at a comparatively low price fo the con-

We know that a glass of hot lemonade (unsweetened) will often break up a severe cold, the juice of a lemon in a little water will sometimes cure in a little water will sometimes cure a sick headache. What a delicious, refreshing drink is lemonade, especretreating drink is remonade, espec-ially during warm weather. Space will not permit me to enumerate the many uses of the lemon; but below are a few recipes in which it is used:

One ounce gelatine, one-half pint cold water, one-half cupil sugar, juice of one large lemon, with a little more cold water. Soak gelatine in water, dissolve by placing bowl in boiling water on stow When James on the water of water on stove. When dissolved add other ingredients. Stir well and pour into mould.

Lemon Icing.

One egg yolk, one cup sugar, one lemon (grated rind and julce). Mix all ingredients thoroughly and put in double boiler. Cook 15 to 20 minutes. Let cool and spread between cakes.

One lemon, one cup sugar, four tablespoons water, four teaspoons corn starch, one tablespoon butter, boil sugar, then add corn starch and butter, lastly the lemon, also grated find. Serve at once. Vinegar is sometimes added to season.

Lemon Biscuits.

One-half pound butter, three eggs, One-half pound butter, three eggs, two cups white sugar, one pint sweet milk, five cents worth baking anmonia (pulverized), five cents worth oil of lemon, six cups of flour. Cream



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WANTED.—Two men; one with one or two years' experience in Creamery or Cheese Factory, and other no experience necessary. Belleville Creamery, Idmited, 118 Front St., Belleville.

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T is a have Yet growing bake bre cake, all of their o tasks mu by learni home if the

It has b makes en one way truth, for mother de the house quite hand she butter and augar, add the eggs well beaten. Sift the ammonia several times in four, then add to mixture. If not a stiff enough, add more four, as they should be quite stiff, and mix with the hands. Add the oil of lemon last. Cut in oblong shape about one-quarter inch thick, and bake no rather hot oven. Will keep a long time.

One more hint: A little lemon juice thrown into boiling rice will whiten it and separate the grains.

Good Vegetable Garden Possible

Mrs. W. McCrae, Essex Co., Ont.

Mrs. W. McCrae, Essex Co., Ont.

THERE should be a good vecetable garden on every farm. I imagine I hear some busy farmer's wife express herself somewhat after this fashion: "It's easy enough in theory, but not so easy to put into practice. I would like nothing better than to have a real good garden every summer, but father is always too busy to give it the attention necessary, and I never seem to have any time to pend on it either, so how that was a good garden?"

That summer is quite logical too, I believe of course it is always the busiest people who accomplish most and the ones to can usually find time to equeese in one more task to earlie and the ones to can the control that working in the summer of the already that working the summer of the s

hard in the vegetable gardon is just the thing for a woman, unless she has a plenty of time and only the work. Being out in the fresh good for one, but if we have a flow garden to look after, we can employ garden to look after, we can employ garding the most profitably working among the

But what about the vegetable gar-den? Why not hand it over into the charge of that boy or boys of yours who are now old enough to take a certain amount of responsibility charge of that boy or boys of yours who are now old enough to take a certain amount of responsibility around the farm. Special inducements might be offer of or a collection of vegetables, or for the specially good garden, for a collection of vegetables, or for the specially good garden, for a collection of vegetables, or for the specially good garden, for the specially good garden, for the special garden gard somewhat arter the tashion I have outlined should prove successful, and we should not only have better gar-dens, but more important still, the boys will feel they have an interest in the farm business.

Responsibility, Good for Our Girls Mrs. David Caughell, Haldimand Co., Ont.

T is a great opportunity we mothers have to be teachers of our children have to be teachers of our candidate.

Yet it is hard to realize that the growing girl of 12 is old enough to growing gart of 12 % old enough to bake bread, cookies, or turn a pan-cake, all of which have a little knack case, sat of which have a fittle anaca of their own. Suggestions as to how these things should be done make the tasks much easier for the girls than by learning through experience. How much easier it is for everyone in the home if the girls can keep the house-hold running for a few days in case of sickness or while mother makes a

It has been said that a lazy mother makes smart children. Perhaps in one way this is not so far from the truth, for in the homes where the mother does fancy work and the girls the housework, they grow up to be the housework, they grow up to be quite handy, and the mother is more





READY

FOR EMERGENC

"Is that you, Bob? Well I'm phoning from Bill Parker's place. I got as far as Clover Hill when I developed engine trouble. She doesn't spark properly. I wish you would go to that big box in the far corner of the deem t sparts properly. I want you would go to that big box in the lar corner of the Garage, pick out a couple of those Plugs marked "Jumbo Molite" and fetch them to me on your Bike. You'll have to hustle because I've only half an hour to get this Milk on the 5.15 train."

¶ That's the way it goes. Just little time saving incidents like this in the every day life of the 130,000 progressive Canadian Farmers who have Telephones, is what is helping to keep the Business of Agriculture at the top of the Nation's Industries.

To the woman on the Farm, the Telephone has proved the greatest boon. It keeps her in touch with her neighbors and the various social activities of her community. It

q But its greatest value comes in a case of emergency—when time is the greatest factor and the doctor or vet is wanted. The Telephone will reach them quicker than any other known method and it only takes one such incident to make it pay for itself

¶ "How the Telephone Helps the Farmer" is a Book you should read if you have no Telephone. A Copy will gladly be mailed you without cost or obligation. Clip the Coupon and mail to-day.

WE SUPPLY everything a Telephone Company needs from the organi-sation of a Company to the complete plant -inside apparatus and batteries as well as line unstruction material and soils. Our business is the neighbor business.

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LIMITED Makers of the Nations' Telephones

MONTREAL HALIFAX OTTAWA

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Please send me your Free Book on

How the Telephone Helps the Farmer" F. & D. -714

13

loved if she does not slave away all

ls loved if she does not slave away all day by herself. There are unusly pleaty of "extras" for mother to do in the home. Here is the experience of one mother about whom I read, and which impressed me very much.

The mother had a daughter 16 years. The mother had a daughter 16 years of the state of the



This Engine Will Cost You Nothing

You need an angine—get a Gilson on our new easy payment plan, and the will pay for leaft. You have the will pay for leaft. You have the help is some do this fall and winter, yourself a lot of worry and enjoy the control of the payment of the staunch, reliable (illinon grant and the work of the staunch, reliable (illinon grant gr

Gliann Engines have long enjoyed an indicate protestion for dependability, power, simplicity and economy. This year finds us with an even more attractive proposition for the discriming the year finds us with an even more attractive proposition for the discriming buyer. Prices of everyty you have been buying have been searing, and pure the proposition of units of the protesting the proposition of the propositi

GILSON MFG. CO., LIMITED, 257 York St., Guelph, Ont.

DEAL WITH Farm & Dairy's Advertisers

Winning the Wilderness

(26)

Aydeior asked, as the two men wanted for their meal.

"I had the chance once. I turned it down. How would you like to keep a tavern in such a place?" Jacobs re-

Winning the Wilderness

(Continued from page 29.)

(Continued from page 29.

bunch of sunflowers then, and except for Jim's little corn patch and mine, not a furrow turned in the Grass River Valley. We have accomplished something since then. Why not the whole thing!"

"You have vesses for your fails.

"You have reason for your faith, I admit. But you are right, Shirley is a dreamer. What's the matter with

him?"
"An artistic temperament, more heart than head, a neglected home life in his boyhood, and a light for health to do his work. He dismortsaged but he has helped so my other fellows to lift theirs, I envy the shaped ant outrance? by and by the head to head to

yard is a picture, while the weeds sometimes close his garden."
"Yes, he'll de mortsaged. He's never paid met mottaged. He's never paid met mottaged in mortage in mortow if he saked me to do it! John Jacobs declared.
"You are a bloodsucking Shylock, sure enough," asher said with sure enough," is her said with sure enough, "is her maid with the said. With Jim would take admit the boem and his dreams of what it might do for him."
"How soon will you be platting your "How soon will you be platting your "How soon will you be platting your mill with the property of the said when the bound his possible property of the said with the

"How soon will you be platting your Sunflower Ranch into town lots for the new town that I hear is to be started down your way?" John Jacobs

the new town than I near in the control of the cont

politician," Asher observed.
"You are a grub, Aydelot. You have
no ambition at all. Why, I've heard
your name mentioned favorably several times for the legislature next
winter," Jacobs insisted jokingly,
"Which reminds me of that rhyme
of Hosea Bigelow:

'If you're arter folks o' gumption You've a darned long row to hoe.'

"I'm not an office seeker," Asher replied "Do I understand you won't sell lots

"Do I understand you won't sell lots off that ranch of yours to start a new town and you won't run for the legislature when you're dead sure to be elected. May I ask how you propose to put in the fall after wheat har vest?" Jacobs asked, with a twinkle in his black eya.

(Continued Next Week.)

Gladys' beau took her younger sis-ter Mabel aside and confided in her as follows:

as follows:
"Now, I am going to tell you something, Mabel. Do you know that last
night, at your party, your sister promised to marry me? I hop-ail forgive me for taking her away?".
"Forgive you, Mr. Sparks," said
Mabel. "Of course, I will. Why, that's
what the party was for!"

turned. "I turned down a bigger tavern than "You seem to know what's ahead came a bride one to be a farmer. I have pretty well," Jacobs remarked. "I know what's in the prairie soil elims and locust trees abading our "I know what's in the prairie soil elims and locust trees abading our "The Sundower Ranch has always" pretty well. I know that crops will house now where there was only a WANTS Your Help!! \$510.00 in Cash Prizes to be Awarded



MARY'S letter is surely a puzzler. She has so mixed up the letters in the names of things she would like berry to give her for her birthings she would like spell some the state of the sta

\$510.00 in Cash Prizes

Jeff Prize 5.00 in Gash 15th Prize 5.00 in Gash 17th Prize 5.00 in Gash 17th Prize 5.00 in Gash 19th Prize 3.00 in Gash 20th Prize 2.00 in Gash 20th Prize 2.00 in Gash 25th 2 1st Prize \$150.00 in Cash Jat Prize \$150.00 in Cash
2nd Prize \$75.00 in Cash
3rd Prize \$50.00 in Cash
4th Prize \$50.00 in Cash
4th Prize \$50.00 in Cash
5th Prize \$25.00 in Cash
7th Prize \$25.00 in Cash
7th Prize \$25.00 in Cash
8th Prize \$10.00 in Cash
9th Prize \$10.00 in Cash
1th Prize \$10.00 in Cash
1th Prize \$10.00 in Cash
1th Prize \$5.00 in Cash
3th Prize \$5.00 in Cash

Fifty Cash Prizes of \$1.00 each

FILTY CASH Prizes of \$1.00 each Prizes of \$1.00 eac

nd paper and try!

How to Send Your Answers

How to Send Your Answers

NO EXPENSE IS ATTACHED TO THIS GREAT CONTEST
ANY ONE CAN WIN A FINE CASH PRIZE

MAY ONE CAN WIN A FINE CASH PRIZE

THIS interesting context in recoverage was a construction of the property o

P.S. I have

words so that you can read Bem

printed the

AND CAMBRIC BESTATE AND A PARTICLE WILL DE ATTENDE WILL DE ATTENDE WILL DE ATTENDE WILL DE ATTENDE DE ATTENDE

MAGNIFIED COPY OF MARY'S LETTER

Kindly asked me to suggest a

birthday present that I would like

I am sending you a little list to think over. If you can puzzle

Birk over. If you can proper this out in time for my bushday I would just love to receive any of the following:

1. BALL RUME. 5 BELT CARE.

2. OH C ROB. 6. SCARE CAD.

3. DEVILS KOG 7. GRANSIRE.

4. SORE STUFF. 8. C CAN LEEK.

9. DO MI DARNING.

10. TRAINE MUSEC.

Since you have so

\$150

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FIRST

PRIZE

Dear Percy.

winners of mg prime from Eventvoller's vollar. Four answer no-be Contest Editor, EVERYWOMAN'S WORLD, CONTINENTAL PUBLISHING CO., LTD, 121 Continental Bidd., Toronto, Ont.

Gran It of a were range W. B and i count poultr on th place garde:

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Elgin County Grange Annual Meeting

Meeting
LGIN County Division Grange
held its annual meeting in St.
Thomas on March 24th, with a
large tradenace of delegates and
members from the three splendidGranges, occupied the chair and
master, M. Wm. Pranglin, of Forest
Rose Grange, occupied the chair and
expeditionely, giving ample time for
the talks and discussion which followed.

lowed.

Reports of the annual meetings of the Dominion Grange, The United Farmers of Ontario, United Farmers of Ontario, United Farmers of Cooperative Co., and Kined Farmers. Occupantive Co., and Kined Farmers. Miss Robinson W. E. Wardell. The veteran Granger, Mr. Palmer, Miss Robinson Frank Hunt, addressed meeting on the value of cooperation, which is the cooperation of the Dominion new secretary of the Dominion new secretary of the Dominion new secretary of the Company of Canage, N. E. Burton, of Port Stanley. It was decided to hold a county picture.

Grange, N. E. Burton, of Port Stanley, It was decided to hold a county pic-nic in the summer. The secretaries of all granges with a committee, were named to make all necessary ar-rangements. District Representative W. Buchana, 2009. W. Buchanan gave a very interesting and instructive address on town and and instructive address on town and country gardens, seed selection and poultry, and also answered questions pountry, and asso answered questions on these subjects. A discussion took place on having a grange contest of gardens, which will be brought be-fore the subordinate granges for action.

A resolution was passed unanimous A resolution was passed unanimously and enthus: "As the grange from its inception has always given the same equal rights at the women of its membership as to the men, and as a grange cannot be considered a perfect one without her presence, it being the first organization to make this decree, beit resolved that this county grange place on record its appreciation of the

first organization to make this decree, be it resolved that this county grange place on record its appreciation of the bill lately passed by the Legislature in giving women the franchise." The elyction of officers resulted as follows: Past master, W. Pranglin; master, W. E. Wardell, Middlemarch; overseer, A. McCallum, Glanworth; sec-treas, Miss Robinson, St. Thomselberg, Miss Robinson, St. Thomselberg, Miss Robinson, St. Thomselberg, Charles Saywell, Town Line; A. Charles Saywell, Town Line; A. Charles, Meniven, Apple Grove Grange: Ratkeeper, C. P. Weitschwardes, Miss Robinson, D. Pound, Dufferin; Pomoná, Miss Clara Humphries; Flora, Miss Lena Hill, Forest Rose.

Legislative Matters and the U.F.O. (Continued from Page 19.)

the executive officers of the United Farmers of Ontario and of the Uni-ted Farmers' Cooperative Company, Limited, urgently request the Govern-ment to amend the bill in accordance

Limitee, tigently request the vover-ment to amend the bill in accordance with our suggestions or lay it over till next session. In case it is laid over we will gladly cooperate with the Government to draft a bill which will meet with general approval."

A Good Roads Legislation.

A Good Roads Legislation.

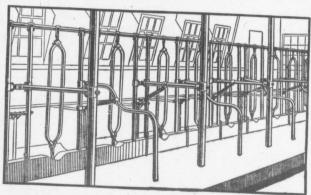
A Good Roads Legislation of the proposal of the provincial light ment to construct provincial high ment t

This would necessitate its enactment being somewhat delayed. The following resolution was therefore passed:

Whereas the provincial Government has drafted a bill with regard to provincial lighways, and whereas we are of the opinion that it would be highly injudicious and unwise at famine and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the familie and misery is told in a detailed the families and misery is a detailed the families and misery is a detailed the families and misery is a detailed the famili

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What it means to you

MODERN, Sanitary Stables at a reasonable outlay of time and money.

Convenience in looking after your cows, and a saving of time and labour in tieing, feeding and cleaning them.

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LOUDEN MACHINERY CO. OF CANADA, Ltd.

Dept. 123

GUELPH, Ont.

"Everything for the Bern"

outlays of public money for a purpose that would benefit a comparatively few people;

"And whereas this matter has not been discussed or considered to any extent by the people of the province in general:

it resolved that this meeting of representatives of the United Farmers of Ontario desire to place on record their emphatic disapproval of the whole project and would call upon the people to place their seal of disapproval upon it in every manner possible."

ner possible."
Clubs which have an opportunity of speaking to their members in the provincial Legislature on these matters should do so immediately, as the House is likely to adjourn very

spatch to the Dominion Department of Trade and Commerce from its repre-sentative at Valparaiso, Chile. He

says:

The crops which had succeeded in The crops which have been cleaned up by an invading army of locusts, the like of which was never known. La Epoca reports that rapid and energetic intervention of the Argusting Charagment is importative in gentine Government is imperative in

gentine Government is imperative in order to avoid general disaster. From Buenos Aires, Entre Rios, Santa Fe, Cordoba and San Luis comes the alarming news of thou-sands of homes threatened with mis-

To the north of the Province of To the north of the Province of Buenos Aires agriculturists have been the victims of the drought, the plague of locusts and a host of minor scourges

of locusts and a host of minor scourges which follow in their train.
South of Santa Fe, after the almost total loss of the wheat and flax, the disaster has been crowned with the total loss of the maize. Dead stocks, such as implements, furniture and plant, are being sold to provide

necessaries for necessaries for the coming winter. But no one will buy horses because of the inability to provide food. Ow-ing to the custom of paying farm rents on the basis of a percentage on crops the landowners are also in the capacity vertex. the coming winter.

crops the landowners are also in the general vortex.

A veritable panic is raging in Rio Cuarto, where the starving cattle can-not be sold at any price.

The Fourth Canadian International Good Roads Congress will hold its seasons in the Horticutural Building, Lanedowne Park, Ottans, April 10–14. A very complete and the Congress of Epad materials and road building chinery will be on exhibition of the Congress of the Congr

Beans, potatoes—here are the two crops that yield most largely of human nutriment per acre and therefore the crops that we should regard with favor this year. The latter crop grows anywhere in Ontario.—C. Jamea.

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bility of being disappointed. ders of \$25.00 or more in Ontario SEED CORN Ontario Grown. On Cob. Rack Crib cured cured in in crates. bags. Per Bushei

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ADVERTISE in these popular col-umns, which others find so profitable— costs you only \$1.68 an inch.

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British feeders send 4,000 miles to procure Linseed Oil Cake and feed it to all their stock—sheep, hogs, and cattle. Oil Cake Meal should be mixed regularly with all other foods, on account of its high percentage of protein.

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THE CANADA LINSEED OILMILLS TORONTO & MONTREAL

CANADA Start INSTED DILA Now Feed

The Milking Machine--An Experience Meeting

(Continued from page 3.)

while engine is running milker. But when I read nearly every article on this subject an announcement of milk-ing 20 cown in 34 minutes, etc., etc., I just word if it wouldn't pay well to spend 20 or 30 minutes longer in many cases and thereby increase the efficiency of the machine.

Holstein Breeder Endorses Milker A. D. Foster and Sons, Prince Edward Co., Ont.

Hinman milker on Nov. 18, 1915, and have used it ever since with good results. One single unit since with good results. One single unit will milk as fast as one man. Our cows took to the milker and we get cows took to the milker and we get more milk with milker per cow than with maintain and the milk as clean and free of bacteria. In June of 1916, added another single unit, making three single units on a row of 17 cows. The upkeep of 1916 was \$2.50, while we think is very moder-ate. We would not advise a milker on a her of cess than 10 cows. We like the milker and are going to in-stal two more units this coming win-ter.

Pleased for Two Reasons Donald Brown, Prince Edward Co.,

HE mechanical milker has proved to be a successful purchase for me. I have used it for two sea-

This price includes a first class two and one-half horse power gasoline or coaloil engine. It has not cost over \$10 in the two years for repairs. It \$10 in the two years for repairs. It is most important to change at once any leaky rubbers, as the machine must be air tight to give satisfaction.

is most important to change at once any leaky rubbers, as the machine make any leaky rubbers, as the machine milks as clean as another. It must be air tight to give satisfaction, you want to make time you cannot lam milking 28 clows with the maleave the milker on every cow until the pect to put any another double unit sand ex-she is dry. Some cows have badly and milk all microst about the way and the person should have that way. A behind and on such udders no milker cows, or the more the fetcr, but with been used to hand milking will somecows, and the present situation in re-out. These have to be weeded out, also the price of all dairy products, I our cows.

(Continued from page 3.)

In a few cases for instance, we have think it would pay better to buy a found one of the teats, due to slight inachine, as a boy or girl with a little end of the teats, due to slight inachine, as a boy or girl with a little end of the state of the stat

A Double Unit Enough Geo. S. Wallbridge, Prince Edward Co., Ont.

ARM and Dairy has asked me for my experience with the milking machine. I have always appre-ciated the manner in which Farm and Dairy has endeavored to help the clated the manner in which Farm and Dairy has endeavored to help the farmer and it is in the same spirit and for the same reason that I will tell of my experience with the milking ma-machine. I willed other farmers who had milking machines and saw them in and machine. I visited other farmers who is, had milking machines and saw them in recoperation. Finally we made our sent lection. We have a trye made our sent lection. We have a trye made our sent lection when a machine is all the tone man can look after We use an our two and one-half horse power is sasoline engine. The pail in our machine is a same to the pail in our machines are the same our two and one-half horse power of cline holds 50 lbs. We have one set, it was to the holds 50 lbs. We have one set, it was to the holds 50 lbs. We have one set, it was a pail of the holds 50 lbs. We have one set, it was a pail of the holds one pail, in the holds 50 lbs. We have one applied to the pail of the holds of the ho had milking machines and saw them in

Any milking machine will fail in the source of the surface of the Any milking machine will fail in the ing and the gas engine can be used to other work. New repairs do not amount to much. Gasoline is high now, but it does not take much, run-ning about an hour night and morn-

GR

Just fi smith, farmer a grinding not just \$2.25 pai months? a small months? grinding days—bu too! If get anot! A rema been disc London,

been disc London, Cloths a them, you ter how he they are

Semi-Annual Meeting

The Semi-Annual meeting of the TORONTO MILK AND CREAM PRODUCERS' ASSOCIATION, for deciding prices for the summer season, will be held in FORESTERS' HALL, 22 College Street, Toronto, on SATURDAY, 7th APRIL, 1917, at 1 o'clock p.m.

1917.

eting

buy a a little rate a in can

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ABSORBINE

will remove them and leave no blemishes, Reduces any puff or swelling. Does not blister or remove the hair, and horse can be worked. \$2 a bottle delivered. Book 6 K free. WOIRCE, \$\(\xi \) a DULUE OFFICE OF INTEGER IN MEMORY ABSORBINE, JR., the antisepte liniment for man-dade, Fred Boils, Bruines, Old Soers, Swellings, Valicous Velan, Artifologities, Allaya Pain, Price \$1 and \$2 a bottle at drugger deliversed. Will tell more if you will be the office of the off



Write to-day for our big FREE CATALOGUE showing our full line of Bicycles for Men and Women, Boys and Girla-Tires, Coaster Brakes, Wheels, Inner Tubes, Lamps, Bells, Cyclometers, Saddles, Equipment and Parts for Bicycles. You can buy your supplies from us at wholesale prices.

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(Advt.)

The Makers' Corner

Butter and Cheese Makers are In-vited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-sion.

Continue Educational Work J. N. Paget, Haldimand Co., Ont. J. N. Paget, Haldimand Co., Ont.

Since the Dairy Standards Act
will not come into force for another year at least, it is my opinion that ecvernment should require that each cheese factory
throughout the province that continues to follow the pooling system
this year, should secure a sufficient
this year, should secure a sufficient
this year, should secure as sufficient
and the province of the province o number or sample outles to the day samples from each patron, each day for a month. During the months of for a month. for a month. During the months of say, June, August and October, sam-ples could be taken from each pat-ron's milk act the end of each of these months the instructors who visit the factories would test said sam-ples and leave with the owner or sec-retary the result of the tests. Then the owner of secordary of each fac-tory could make a comparative state-ment for each patron, showing what tory could make a comparative state-ment for each patron, showing what he had received under the pooling sys-tem and what he would have received if he had been paid for the butter fat content or by test.

I feel that unless some such work

as this is carried out in the factories this season, a year from now the views which now prevail will not have views which now prevail will not have changed. The government may do all the educational work possible at the dairy schools, but it will fall to impress the individual patrons of our factories, unless the products from their own herds are used in making the demonstration. I believe, too, that the most important work that the instructors are called uson to do do. structors are called upon to do at nine-tenths of our cheese factories, is hine-tentas of our cheese factories, is to help the patrons to take better care of their milk. The pooling system certainly is not helpful in bringing about this important condition.

Problems of the Creamery Man Wm. Newman, Victoria Co., Ont.

HERE are a few, some of them
time only will solve, yet problems
are the best things we have,

without them we would be poor men indeed.

indeed.

The problem of the past was to interest the man who cared for horses, stockers and grain crops, in profitable dairying; to even get him to understand that dairying was not beneath his dignity; that men in other places wilked cover and be accounted. his dignity; that men in other places milked cows, and he would not be-come effeminate by giving attention to dairying; to interest bim in skim milk or hand fed caives; that a sep-arator was worthy of his investment; and that the creamery was the one form of cooperation which placed the most and best butter on the market at the highest price for himself. We creamery men wrestled with these at the highest price for himself. We creamery men wrestled with these problems. Time and edeution have problems. Time and edeution have no man feels that he is at women's own the her man feels that he is at women's when he is milking cows. Calves had fed, separators, and the creamery, with all their by-products, are one united whole.

In 1903, when Elden creamery first came into existence, there were only five creameries in Eastern Ontario. The problem was to get the local trade, even the Toronto market, to use cream-

The problem was to get the local trade, even the Toronto market, to use creamery butter in preference to dairy. As alta as 1965 such produce firms as The Wm. Davies, Limited, handled more dairy butter than they did creamery. All this is changed.

Present Day Problems.

Present problems are new, but just as real and worthy as problems of the



Those who sent in their orders for Coment Decore above. 25th, may consider themselves fortunate, as the price is now ten cents per barrel higher for MAY shipment. We are also advised that the Rallways are liable to advance their freight advised that the Rallways are liable to advance their freight and the same of the it in their orders for Cement before March rates and if they do before that time we shall be obliged to

Coal Oil and Gasoline have advanced two cents per gallon and Sugar forty cents per hundredweight during the past

Owing to the enormous demand for seed corn this season, we have completely exhausted our supply.

Farmers having seed corn or potatoes for sale may forward samples to this office stating variety, price and quality. We expect to have our Coal prices ready in about one week or ten days and are still soliciting estimates. Up to the present our coal estimates have amounted to nearly two

We are still in position to offer a few carloads of good Western potatoes at an attractive price. We have been ad-vised to-day that potatoes have reached their lowest level.

Our Produce Department is progressing very favorably. Get our prices before selling elsewhere. Always send us a statement of what you are shipping.

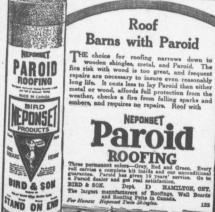
The United Farmers' Co-Operative Co.

iio Church Street

Toronto, Ont.

The Bissell Disk takes hold of any soil, and has the Disk Plates are of specia "knack" of doing great work. The turn the soil over. The draught is lighter, too, than any other Disk. In fact, when the find another Harrow that can begin to come and the danother than the special content of the specia Harrow that can begin to compare with the record of the Bissell. Write Dept.R for free catalogue. T. E. BISSELL COMPANY, LTD., ELORA, ONT.







CHEESE BOXES

for the 1917 Season

We make the STANDARD BOX as demanded by

Ingersoll. Cavanville, Peterboro, Belleville. Ont.

Railway Commission.

Take no chances with any other.

Write us for prices delivered to your station.

C. B. JANES & CO., Limited ORILLIA, ONT.



(20)

ever since he was weaned

"The sover seen sorthine like it to take the place of the work of

Dead with Found Outle, name page as the calves.
It calves.
It is 25, 50 or 100 lb. Bags. If your dealer it, write us for prioss on it and also on ner's Sac-a-fat, Fig. Maj. Ovatum and of Feeders' Cotton Seed Meal. GARDINER BROS., Freed Specialists, SARNIA, Ont.



CHEESEMAKERS! HANSEN WANTS

We have opened a factory in Torento for the manufacture of our wellrange of the manufacture of our wellrange of the manufacture of our wellrange. You will find it profitable to collect Revented in your locality
and ship them
and ship

REMNET

for salting

GOOD PRICES PAID. GOOD PRICES PAID.

Write us for special circular
containing full instructions for
the preparation of Rennets for
anipment, and particulars of
the prices we will pay. Do this
now—There's money in it for
you.

CHR. HANSEN'S CANADIAN
LABORATORY,
201 Church St., Toronto, Ont. ********************



Try before you Buy

A SK any one of our dealers to let you have a Viking on 30 days free this, and he will be glad to do so. of the state of t

SWEDISH SEPARATOR CO., SIS South Fifth Ave., Chicago, III. G CREAM SEPARATORS
OF QUALITY (9)

BUTTER & EGGS mission merchants. We prices and remit

WILLIAM DAVIES COMPANY tablished 1854. TORONTO, ONT.

It Will Pay You to mention Farm and Dairy when writing Advertisers.

CREAM-

WE ARE OPEN TO BUY both for churning and table

ASK ANY SHIPPER about our service and prompt ASK FOR PRICES.

The figures for yesterday may be TOO LOW for to-WE FURNISH CANS.

The Toronto Creamery Co., Church St., TORONTO, Ont. past. Progress has been rapid. Machinary we used five years ago is now scrapped or soon will be. Pasteurizers have changed, many times in 10 years. The problem is how to keep abreast of the times and wake any master and make any master.

The problem is how to keep abreast to the times and make ends meet.

The country or local creamery, in the past found it difficult to change the farmer from farm butter making to the creamery. Now it's to keep him the creamery. Now it's to keep him the creamery. Now it's to keep him the creamery. It ratine from earm butter making to the creamery. Now it's to keep him from going to the city creamery. It has even been guessed that soon there would be no local creameries, that all cream would be sent to the large center;

chat all cream would be sent to the large centers.
Yet we modest fellows on the cross roads, having invested all and more, coan't pull up. We fill hold with the hope of, well I think the third concession will stay with the third concession will stay with the third concession will stay with the post of the contry is served, and out of it all I hope that the dairy man on the farm, the presence will come forth stronger because the many large of the played his part fair and well. The problem of good help has become expensive. Yet I must say that came expensive. Yet I must say that saf ara I am concerned I have nothing but praise for the men who work work.

as far as I sm concerned I have nothing but praise for the men who work day after day, dother heat in these times of man calls, and high cost of all things, for one well, and helped solve the problem of ware. My help have cooperated with the problem of the prob effort and care. God bless the men who sell their skill and labor.

The Grading Problem. The Grading Problem.

Grading cream, that is one effort which will save this country from losing markets, is a problem. Not too the same than the problem will apply appeared if big if handled well, easily operated if only there are leaders, who will see

only there are leaders, that creameries cooperate.
Grading butter is no longer a problem. The Department of Agriculblem. The Department of Agricul-ture has solved that by just grading butter for the creameries. I believe it will be a great success if the same department of agriculture would be a leader in grading cases. department of agriculture would be a leader in grading cream by passing the clause of the Dairy Standards Act, the clause of the Dairy Standards Act, which refers to creameries and cream grading. All creameries would grade and there would be no friction between dairymen and creamery men. nen the problem would be solved by Then the problem would be solved by all the province going at it. There was never a voice raised against this part of the Act. Yet it has been placed to one side, along with the clauses relating to cheese. Why?

Other problems are ice or coldness for keeping cream on the farm. Good for keeping cream on the farm wood roads, express rates and service. Cold storage at the creameries, parchment paper (an awful cost since Belgium was put out of business), boxes, color, sate (it's up to Comman in Canada). salt. (It's up to Germans in Canada).
And coal. I'll stop.

And coal, I'll stop.

My spirit needs a rest, after looking
at the difficulties of life work. After
a while I will write you of the "Josephene". I believe they
are as many as the myslems. are as many as the problems.

Chr. Hansen's Laboratory, the well-known manufacturers of Rennet Ex-tract, Cheese and Butter Colors and tract, Cheese and Butter Colors and similar preparations have opened up a Canadian Factory at 201 Church St., Toronto. They will manufacture their various lines for the Canadian trade only. It is understood that they will only. It is understood that they will pay an attractive price for milkefed to the control of the

"Is your wife economical?"
"Very. Look at the clothes that
she makes me wear!"



NEW FEATURE FOR 19 7 ogue Mailed on Req THE PREMIER CREAM SEPARATOR CO-TORONTO, ONTARIO

All cows give some MILK

Well fed cows of course give

MORE MILK but cows fed COTTON SEED
MEAL give the

MOST MILK d do it at less cost per pound COTTON SEED MEAL

when carefully selected, such as our Brands are, is the most economical Brands are, is the most economical and most satisfactory concentrate on the market. It is rich in protein, and offers it to the animal in a highly palaticle form, and course need protein to produce the market may be a selential to the selection of the selection

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Owl Brand Jay Brand
41-456 Protein 26-3386 Protein
Do. Brand Fox B and has been for forty years.

Come to headquarters.

F. W. BRODE & CO. Memphis, Tenn.

Established 1875 Incorporated 1915

FOR SALE

A very high-class Belgian Stallion, coming 7 years; Color, Strawberry Roan. Weight between 1,900 and 2,000 lbs. Son of the Sweepstakes Draft Mare-Chicago Horse Show, 1907. Come and see his colts. Address-

W. C. HOUCK R. R. 1, Chippawa, Ont. 5, 1917

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CO

The Late "Dan" Drummond of Ottawa

A Sketch of His Life and an Appreciation of the Man by His Friend and Associate, T. G. Raynor

THE passing of Daniel Drummond Presbyterian Church, on the Temon Thursday, 22nd of March, is poral Board, and enjoyed the confi-a distinct loss to the acticul dence of his fellow members. His place on the bowling reen will more he has been before the public, be greatly missed, as he was a true serving in various canactics, and his sort, and could lose a game in the

on Thursday, 22nd of March, is poral Board, and enjoyed the configure of Canada. For some 17 years or more he has been before the major of the provided of the

Both Mr. Drummond, senior and junier, were excellent plowmen, and the latter won many prizes at plow-ing matches. This has raade his ser-

and iceling of cows for qualification the act are as follows:
In the advanced Resistar,
During the typhoid epidemic some servicion of buildings and machinery,
four years ago in Oitse Mr. Drumfond fook that dread diseas and permanent improvements approved by
the regulations, or for such other purnewer fully recovered from its effects.
On Wednesday, March 14th, beffects,
On Wednesday, March 14th, beffects,
on the recovery of the productive powers of
semergency case to the hospital,
such land. Not more than one-third
where he lived just a week after the
operation. His heart failed to carry
purposes

all lived guest a week after the
operation. His heart failed to carry
purposes

all lived guest and the paybear at his age of 60 years. He
able in equal annuited alliments of
the cursisters to more three brothers and three
rency thereof, in other words, accordsisters to more the productive powers of
the control of any such and interest alliments of
the cursisters to more the brothers and three
rency thereof, in other words, accordsisters to more the productive powers of the
principal and interest and interest
and interest are the cursisters to more the productive powers of
the productive powers

ing application to this office or to the district representatives, will be able to secure twine for the tying of their feeces and also have the privilege of the loan of jute wool sacks for the shipping of their wool. In the case of a county where there is no district re-reasontaint, twins and sacks will be presentative, twine and sacks will be

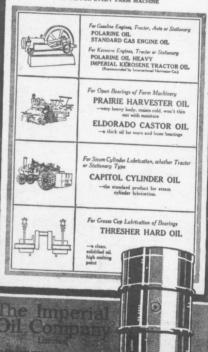
Junior, were excellent plowmen, and the latter won many priess at plow in a matches. This has rade his services much sought after a dispersion said first from the match and the services much sought after a dispersion said fraction and the services much sought after a dispersion said from the match and the services will be serviced by the services at Pett Cote to man as on Mr. F. W. Hodson's farm at Brooklin, Ont. At his dispersion said a pure-bred Ayrshires these cattle made a new record in priese, a daught for five services and the services will be serviced by the services will be serviced by the services of the services will be serviced by the services of the services will be serviced by the services of the



FIVE modern oil refineries, so located in five Canadian provinces as to eliminate long railroad hauls, aid directly in reducing to you the cost of the highest grade oils for the lubrication of the different machines on your farm.

All our oils are supplied in steel barrels and steel half-barrels - convenient, economical. No waste. You use every drop you pay for.

AN OIL FOR EVERY FARM MACHINE



(32)



CHEESE-MAKERS!

Are you going to continue using high-priced imported Rennet Extract-or

Curdalac* (P. D. & Co.) and Spongy Pepsin for Cheese-making?

During the season of 1916 these two coagulants satisfactorily replaced Rennet in scores of factories; gave full yield of fine-flavored cheese, and with great saving in cost.

Ask the nearest supply dealer for information regarding the use of these products, also for prices and descriptive literature.

"The term "Curdalac" is used to distinguish the liquid milk congular efactured by Parke, Davis & Co.

Walkerville, Ont.

PARKE, DAVIS & CO.

Established Our handsome Spring Cata-logue now ready. A copy will be mailed free on request. J. A. SIMMERS Bulbs, Ulmited SEEDS, Plants Foreign Ont Toronto, Ont.

Farm and Dairy.

"Peterboro, Ont.
"Peterboro, Ont.
"Sales have been extra good this season, and we value highly
your paper as an advertising medium.
"Ours truly,
"(Sed.) J. W. RICHARDSON,"

"(Sgd.) J. W. RICHARDSON,
"Riverside Farm." Tou, Mr. Breeder, can displicate Mr. Richardson's experience in making sales to the 23,000 dairymen and dairy breeders who receive Parm and Dairy seeds week. Write us to-night for our libead contract rarm and Dairy FARM AND DAIRY, PETERBOROUGH, ONTARIO. writing of the mortgagee. The loan shall not exceed in amount 60 per cent. of the assessed value of the land upon which the loan is to be

charged.

The owner of the land on which
money has been borrowed may at
any time discharge the indebtedness
by paying to the treasurer of the by paying to the treasurer of the municipality the amount borrowed and interest thereon at the rate of five per cent. The corporation shall have an insurable interest on all buildan insurable interest on all buildhats, machinery and other property on
hats, machinery and other property on
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hats, machinery and other property
hats, and the control of the control
hats, machinery and the control
hats, and the corporation
will take such presents for the corporation
will take such presents and hat or control
hats of the lands as the law requires.
The Attorney-General, when the act

sale of the lands as the law requires.

The Attory-General, when the act
was discussed in the House, pointed
out that the government did not intend that loans should be made on
improvements to be built, but rather
than a tready in a systems.

He Improvements to be built, but rather upon those already in existence. He pointed out that a farmer having had his application endorsed could easily local banking accommodation to get local banking accommodation to make temporary improvements, and pay off his temporary loan when the work was finished and his loan from the government treasury was avail-

Members of the Opposition did not Members of the Opposition did not like this plan, and Mr. Wijde, of Es-sex, suggested that municipal cou-cils be permitted to make advances while the work was under way. Hon. Mr. Lucas approved of the suggestion, and will probably frame a clause to and will probably frame a clause to

The only important amendment to the act was moved by Mr. Lucas. It opens the way for the government to provide by regulation for the loaning provide by regulation for the loaning of money to farmers for other than "permanent improvements." The suggestion was that up to one-half of the oan the farmer might use it for reloan the farmer might use it for re-tiring existing mortgages. The loans will probably be made on a 30-year period at five per cent, with very small annual repayments of principal.

A Farm Survey for Ontario ARM surveys represent the latest methods of investigating farm management problems. have become very common in United States, where state and federal departof agriculture have conducted eds of such surveys. Dr. Creelments of agriculture nave conducted hundreds of such surveys. Dr. Creel-man, Ontario's Commissioner of Agriman, Ontarios Commissioner of Agri-culture, proposes such a survey for Ontario. In a recent interview he

'In the province there should be put into operation at once a big scheme whereby the entire farm operations of at least 1,000 farmers could be activeat least 1,000 farmers could be active.

ly reported on during the entire season. The second year the number
should be increased to 3,000, and the third year, perhaps, to 5,000.

"From such a process we should be able to secure valuable data which should lead to a revival in farming. We should be able:

"1. To expose the weaknesses of the

To learn to avoid waste.

3. To stimulate business methods.
4. To study the relations of tenant

"5. To find out the advantages of long term leases. To learn the length of life of

machinery 7. To find out the relative profits ter fat. of large and small farms.

8. To learn the value of horse versus motor power.
"9. To secure information from beginners regarding investments in agri-

"10. To find the relative profits from

different kinds of farming, such as fruit, dairy, beef, seeds, poultry, etc. "11. To secure accurate data re-garding the value of good roads in re-

"12. To study the whole question of

"12. To study the whole question of marketing farm produce, "13. To get a better knowledge of the necessity for cooperation in buy-ing, selling, exchanging work, imple-ments, etc."

CITY MILK SUPPLY

Montreal Milk Shippers Meet

DITOR Farm and Dairy: The annual meeting of the nual making of the Montreal Milk Shippers' Association was held in the Queen's Hotel, Montreal, Que., on March 13th. There was a yde., on March 13th. There was a large number of representative shippers of milk and cream present. The President, James Winter of Ormstown, Que, referred to the extraordinary Que, referred to the extraorumary conditions surrounding the production of milk at the present time. The prices of milk and cream fixed by the process of milk and cream fixed were con-Association one year ago were con-Association one year ago were considered sufficient at the time to give a reasonable profit to the producer, but poor crops and prostures caused a great shortage of milk and large quantities of mill from the fixed particles had to be fed, which so required the profits of the profit of the producer were winter, as most of the producers were winter, as most of the producers were prices of milk and cream fixed by the lowed by a more serious condition this winter, as most of the producers were short of slings, owing to a poor corn crop, therefore mill feeds had to be fed to keep up the milk flow. Usually all up-to-date milk producers say in a supply of an and other feeds in the fail when the price is lowest, but last fail only a limited amount could be procursed, consequently since December most producers were

fall when the price is lowest, but last fall only a limited amount could be procured, amnequently since December mean producers were purchasing these reads as they could be had. As the sun superfect transportation intensited the situation so that now feeds could only be had in small quantities and at along the prohibitive quantities and at along the property of th

also increased from 50 to 150 per cent. So much has the darlyman had to consome has the darlyman had to conclude the had been consomerated with the price of milk had by the association last fall was not sufficient to compensate the dailymen for his feed and labor. Even with the advance made by the dearer, dairymen were heavy losers in producing milk for city trade this white, but were produced to the sufficient of the suff

Summer Prices.

On the summer prices of milk and cream coming up for discussion, or pression of opinion was taken and shipper after shipper stated that unsimpler stater supper stated that un-less he could get at least 25 cents per gallon this summer, delivered in the city, he would either quit the business city, he would either quit the business or send to the cheese or butter fac-tory. Had a vote been taken it is likely this price would have been recommended, but under prevailing accommended, but under prevailing recommended, but under prevaining conditions the meeting thought it wises to refrain from recommending a price

The cream shippers claimed the need of a price corresponding with milk, at least five cents per cwr. but-

A number from Ontario raised on-jection to milk being shipped to the city from factories, received from dairies that were not inspected, which was a gross injustree to the shippers that had complete with the city regulations, at a considerable ex-A number from Ontario raised oh

our fun dec bro ests

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perh send Ra ter, A. M. F. St E Steph

-Pre Que.; Vaudr James retary Que.; don, B Wight North Vankle ville, (O. Bas Brown, sonville David 1 St. He Edward V. L. R Curtis,

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1917

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pense, and put up a high class milk.

This matter was referred to the Committee on Santiary Regulations.

The question of the committee was realized and the matter was left with the directors to deal with the directors to deal with was recommended that the territory from which milk and cream is shipped to Montreal be sub-divided and placed a director, with instructions to canvas for members or supply to the Executive for a canvasser.

Financial Statement

The financial statement showed a balance on hand of \$65. It was pointed out that the Association needed more funds for extension work, and it was funds for extension work, and it was decided that the question of raising the members' fee to \$2 would be brought up at the Semi-Annual meet-

brought up at the Seum-Annual meeting in September.

In its September.

It is a September.

It is a september to unite with the Association
and compared to market in furthering the interests or the producers.

If you not a member of our Association we will be glad to enroll you
as such on receipt of the member's
fee of \$1\$ and the enclosed form property signed. Send money by Postoffice on the producers of the property and the property send money in a letter without registering same.

he following Committees were ap-

Pointed:—
Railway:—S. E. Smith, James Winter, W. F. Empey, W. G. Rodgers, D. A. Macfarlane, T. O. Bourdon and W. F. Stephen. Sankary Regulations:—S. E. Smith, H. S. Taamahil, P. D. MoArthur, Frank Manson and W. F. Stanken.

Officers Elected.

Officers Elected.

The following officers were elected:
—President, S. E. Smith, Lachute,
Que; lat Vice-Prese, Paul Denis,
Vsudreuli, Que; Jen Vice-Prese,
Vsudreuli, Que; Jen Vice-Prese,
Paul Denis,
Vsudreuli, Que; Secpresary, W. F. Jensen, Huntingdon,
Que; Tenas, H. Stephen, Huntingdon,
Vankleek Hill; J. P. Maide BalingVankleek Hill; J. P. Maide Balingville, Ont; Andrew Fawcett, Lier,
Maide Malvern, Winchester,
Maide Malvern, Winchester,
Maide Malvern, Winchester,
Maide Malvern, Winchester,
Jerown, Glenelm; Alex, Younle, Brysouville; Geo. McArthur, Howick,
David Black, Lachute; Gordon Miller,
David Black, Lachute; Gordon Miller,
St. Hermas; Tyson Robson, Como;
St. Hermas, Tyson Robson, Como;
St.

Hector LaTourneau, St. Constant; lambs. The next summer I bought Joseph Brosseau, Cotte Ste. Therees; some more. But, the second winter, a T. O. Bourdon, Chatcauguay; J. R. disease, a sort diphtheria or gotire, white, White, White, White, White, Weight, Charles, Charles, Canada, Canada Stephen, Secretary, Huntingdon, Que.

FARM CHATS H. Percy Blanchard, Hants Co., N.S.

Mary's Little Lamb

H. Percy Blanchard, Hants Co., N.S.

N that immortal poem written in delibly upon the memory of every school boy, we learn of Mary's coveted possession, a little lamb. we recall its devotion to Mary, its cold recogning at he halls of learning and ception at the halls of learning, and it option at the halls of learning, and it explained to us that its affection to-ard Mary was merely a matter of is explained to do market of ward Mary was merely a matter of reciprocity. The ultimate and said fate of this fleecy pet is not recorded by the poet; but tradition informs us the poet; but tradition informs us that like many others of its kind it found its way to the butcher's stall, in the good old times (for the con sumer) when mutton was cheap,

And so the butcher bought the lamb, And much to Mary's sorror, She only got, with the skin thrown

About ninety cents or a dollar.

Now I had to alter "sorrow" to "sorror" to make it rhyme with "dollar." At the same time, I am convinced that Mary felt so grief stricken at the low price the butcher gave her, that she would not give a snap what word rhymed with her little lamb. Not only so, but nowadays a good many words suffer guite a twist to rhyme with dollar.

10 rhyme with dollar. I had to alter "sorrow"

to rhyme with dollar.

Yet, in spile of this busolic tragedy,
Yet, in spile of this busolic tragedy,
our governments are urging us farmour governments are urging us farmonear some of these advocates. To
hear some of these advocates onliction
for the farmer's welfare one would
think the keeping of sheep meant a
big barn yard full of sheep, the weeds
big barn yard full of sheep, the weeds
their only nutriment, and around Eastheir only nutriment, and around Easter a market waggon gathering up the festive, fat and frisky lambs, at ten dollars

Goiars per.

So I bought some sheep, anything
with four legs and a blat. In fact, it
was the only way to get them, a little
flock here and there. There was no flock here and there. There was no culling out that fall; my endeavor was to winter them all, about forty. Some pulled through, and then again some There was a small

lambs. The next summer I bought some more. But, the second winter, a disease, a sort of diphtheria or goltre, disease, a sort of diphtheria or goltre, took a lot of them, and others began to get study and disease, as and the a well of the second of the s in March, the rest in June. In this prime flock were two pure Shrop ewes. People tell us that sheep are no bother. Well, that spring I was nurse and veterinary and old granny, with a baby's bottle in hand from dawn to dewy eve and often to midnight, ministering to those lamby, if dawn to dewy eve and often to mid-night, ministering to those lambs. If the lamb was strong, the ewe had no milk; and if the ewe was chuck full of cream the lamb was either too weak to suck or too blamed stupid to know what to suck; or, third—hypothesis, the ewe was too skittish or modern to even own the lamb, let alone to allow it near her. When I low it near ner. When I think of those days and nights, and they are again on me, I marvel at the patience of Job; and recall the fact that Moses think ere he was deemed fit to lead Israel, put in forty years in the wilderness trailing round after a lot of sheep.

But it seems to me that the great est wastage in sheep is the ewe that is a poor mother. My sheep are well fed and well housed. While one ewe will drop a single or twins, take right will drop a single or twins, take right to them, and bring them up fat, an-other ewe, just as fine looking, will let her lamb die on her hands. Not only so, but it gets to be a habit. Every man has his hobby; one man breeds white Holsteins, another pro-duces collar button Ayrahires. It seems to make the side of the side of the seems of the side of the side of the seems of the side of the side of the seems of the side of the side of the looking maternal instincts and affec-tions in the sheep. tions in the sheep.

tions in the sheep.

So every one of my sheep now has
Its numbered ear-tag. In the barn is
pencil and paper, and as each owe
lambs, a record of progress and success or failure will be entered. Upon
two years of that record her fate will
year. By altunizating the non-produc-By eliminating the non-production ewes, the next step will be to have their successors, their lambs, satisfactory. Here is a real difficulty satisfactory. Here is a real difficulty for one person. Much depends, no doubt, on the ram, and shall I chance doubt, on the rain, and shall I chance it on a purchased ram or in-breed for my purpose? In my flock, the "low-bred" are better mothers than the aristrocrats. I have a big Oxford. crop of aristrocrats.

Two years ago she dropped a beautiful lamb in the pasture, and walked away and left it. Last spring she had away and left it. Last spring she had twins, and would not even own up they were hers. This spring will be her last chance at my expense. Last they were hers through the same trick as the Oxford. On the other hand, and have four long legged, long nozed, white face sheep, with little wool and less mutton, that take care of their lambs as if every or of them were a Lord Fontlery. If I could get their material instincts and ablittes in my material instincts and ablittes in my maternal instincts and abilities in maternal instincts and abilities in my pure breds, sheep keeping would be a joy. But o nthis subject, as the old time writers used to say, more anon.

A Busy Commissioner

M Dusy Commissioner

M OMENTOUS plans for the promotion, improvement and extension of agriculture, are under consideration by Dr. G. C. Creelman, Ontariodis new Commissioner of Agriculture. An idea of the extent of the work under consideration may be a consideration may be a followed from the following outlines. culture. An idea of the extent of the work under consideration may be gained from the following outline which was gleaned from a recent in-terview with Dr. Creelman by a mem-

terview with Dr. Creennan by a mem-ber of the Toronto press.

"Additional labor from other prov-

Additional labor from the United

The cooperation of the Board of Education in securing boys from the Education in securing boys from the High Schools and the Collegiate In-stitutes for the land for four months

from April 20.
Winnipes retired farmers back to
the land through a patriotic appeal by
the Resources Committee to over 300
patriotic associations in the province
to recruit retired farmers fror the
farms this summer.
The agraphishing of sand farms

The establishing of seed farms The perpetuation of pure strains of

Adapting crops to the soil.

Co-ordinating the work of the branches of the Agricultural Department and cooperating with the Federal Department of Agriculture.

eral Department of Agriculture, Linking up the work of the Ontario Agricultural College with the farmers on their own farms.

Broadening the activities of the de-

Investigation of the potato question and encouragement of Ontario growth of seed potatoes.

or seed potatoes.

Investigating of cold storage facilities with tests of the keeping qualities of foodstuffs. Promotion and encouragement of

=30 lb. BU Rag-Apple Waldorf (28986) Born April 28, 1916

HIS SIRE SIR PONTIAC RAG APPLE, a son of RAG APPLE KORNDYKE, 8th, who has sired a 30-lb. Jr. 2-yearold, a 25 and 23-lb. Jr. 3-year-old, and 4 other 20-lb. Jr. 2-

HIS DAM GIPSEY QUEEN RHODA, who has a record of 30.71 lbs. butter from 548 lbs. milk, 85 lbs. milk 1 day, average fat 4.4%. Her sire is a brother to QUEENIE L., a 26-lb., 5% cow.

RAG APPLE WALDORF-

is a show bull, evenly marked and he is bred to produce. His three nearest dams and his sire's sister—four cows in all—average over 30 lbs. butter in 7 days. Write us about him or come and see him. He is priced to sell.

WE HAVE some good baby boys from our 29 lb. bull PIETJE PAUL, from daughters of INKA SYLVIA BEETS

POSCH, and from daughters of PLUS BURKE, with records up to 26 lbs., 3rd calving, and 100 lbs. milk in 1 day.

WELLINGTON, ONT. BELL 'PHONE

A. D. FOSTER & SONS BLOOMFIELD, ONTARIO

HOWELL STATION,

C. N. R.

coperative societies for the handling farm products. Engaging the interests and direct-

ing the energies of wealthy men ne province in agricultural pursuits.

Loans to the farmer at reasonable rates of interest.

Immediate increase of farm crops

by better methods.

Twenty per cent. increase of grain
by the use of the best seed. Adoption of proper farm accounting system and resultant improvement of agricultural methods.

Encouragement of live stock and the use for breeding purposes of only the best pure bred male animals. The extension of the Ontario Vet-

erinary College course to four years.

Preservation of female live stock calves, pigs and lambs and resultant increased stocks.

Adoption of measures to increase Adoption of measures to increase the local consumption of Ontario's apple crop and prevent importation. Doubling of poultry flocks. Wool grading by Government grad-

Cheap and efficient waterworks plants for farmers. Grading the butter.

The actual work in connection with the fulfilment of these plans does not, of course, devolve on Dr. Creelman. His position is an advisory one. T schemes, however, to cover so wide a field, is "a man's job."

Disinfection of Stables

HEMICAL disinfectants are used to good advantage in controlling disease, and the following direc-

disease, and the following direc-tions for their use are given:

1. Sweep ceilings, side walls, stall partitions, floors, and other surfaces until free from cobwebs and dust.

2. Remove all accumulations of fith by scraping, and if woodwork has be-come decayed purpose absorbant.

come decayed, porous or absorbent, it should be removed, burned, and re-

should be removed, burned, and placed with new material.

3. If floor is of earth, remove four inches from the surface, and in places where it shows staining with urine a sufficient depth should be removed to expose fresh earth. All earth re moved should be replaced with earth from an uncontaminated source, or a new floor of concrete may be laid which is very durable and easily cleaned

4. The entire interior of the stable, especially the feeding troughs and drains, as well as milking stools and all other implements, should be saturated with a disinfectant, as cresol compound (U. S. P.), or carbolic acid, six ounces to every gallon of water in each case. After this has dried, the stalls, walls, and ceilings may be covered with whitewash (lime wash), to each gallon of which should be added ounces of chlorid of lime.

5. All refuse and material from stable and barnyard should be removed to a place not accessible to cattle or hogs. The manure should be spread on fields and turned under. spread on needs and turned under. In addition, the yards should be dis-infected by sprinkling liberally with a solution of copper sulphate, five ounces to a gallon of water.

The best method of applying the disinfectant and the Hme wash is by means of a strong spray pump, such as used by orchardists.

This method is efficient in disin-These method is efficient in dismi-fection against most of the contagious and infectious diseases of animals, and should be applied immediately following any outbreak, and, as a mat-ter of precaution, it may be used once or twice yearly.

"Bad luck that for poor old Bill," said Jinks the chaffeur. "He got fined for taking out his employer's car with-"He got fined out permission." "But how did the boss know he took

"Bill ran over him."

Growing the Corn Crop

An Interview with Henry Glendinning

her powers of production may be.

"The varieties that we prefer are it will cut strong roots, the Learning and Wisconsin No. 7. We Fine Points of the mix the seed and plant in drills 42 inches apart, using an ordinary seed drill. We plant 18 to 20 lbs. of seed to the acre. This seeding is not heavy but we often have a thicker crop than farmers who use a half a bushel of seed to the acre, because we get good seed of high germination. It was once seed of high germination. It was once our practice to plant altogether in hills and use the scuffler both ways. We have decided, however, that we get a bigger crop and better ears when we plant in drills. It stands to reason that this should be so. In the hills, all that this shound be so. In the nins, and the stalks come up together. Dotted along in the drills, each stalk has a feeding space of its own. We haven't had much trouble in keeping our fields has meen crounte in seeging our neigh-clean either and when cutting time comes, the drill seeding is a decided advantage. With hills, the work of the binder was a series of breaks, hard on the binder and on the team that

"In preparing a field for corn, we plow in the fall and then plow again in the spring. Bear in mind our corn is not always on the sod. If on the we would manure in the fall, plow sod we would manure in the ran, plow shallow and then just work the sur-face in the spring. It is after grain that we double plow. If the corn crop is to follow alsike, we would plow in mediately after barvest, cultivate the land through the fall, manure in the winter and plow again in the spring.

"Barnyard manure is the only fer-tilizer we use. The application depends upon the amount of manure we have. This year, for instance, we are putting it on at the rate of 10 to 12 parting it on at the rate of 10 to 12 spreader loads to the acre. We aim to cover all of our corn land and we gauge teh spreader accordingly.

The Place of the Harrow.

Before planting we roll and just "Before planting we roll and just as soon as the seed is in the ground we cross harrow and let it lie for two or three days. Then we sive it another stroke with the harrows to destroy any weeds that may be sprouted.

Looking way the field we cannot see Looking over the field we cannot see any weeds at this time; they are just germinating and it is at this stage that they are easiest to kill. When the that they are easiest to Rill. When the corn is up we harrow crosswise again, trying to go the reverse way to what we did before. When the corn attains we did before. When the corn attains a height of six inches we use the weeder, an implement made somewhat after the manner of a hay rake, but with two rows of long slender teeth. The reason that this implement is not or common I suppose is that it is so cheap. The agent's commission is accordingly small and they don't care to handle them. I gave \$10 for mine a good ways. a good many years ago. This implement keeps a fine mulch and kills the weeds without pulling the corn. se it even if the corn is a foot high. Our fields are clean and we never use a hand hoe unless it be to cut so thistles occasionally. Last year labor was so short that we did not cultivate our corn, but had it not been for the drag harrow and weeder, it would have Worse

"When we can no longer use the eeder, we start the cultivator. Our

WO crops reign supreme on our one complete row, as ours does, is that farm, alfalfa and corn. We there are always two rows that when regard as the standbys of the dirty details and the property of the standbys of the dirty capacity distance and there is less dantaris. They together form the ideal ger of the riding machine cutting out basis for the dairy ratio or a dairy corn. We have an old corn cultivator cow. no matter of what bread or what with broad shears working two rows at with broad shears working two rows at a time, that we use in case of thistles.

Fine Points of the Job. We keep the riding cultivator going till the corn is three or three and one-half feet high. If we had the time we would then use the single row cultivator, but of late years labor has

been scarce. Here is an important small point, Make the cultivator a little narrower

with each succeeding Keep away from the plants and don't cut the roots.

"Another small point. tempt to sow three rows with the seed and then use a two-row cultivator the same as mine. There will not be the same even width of row for the machine to center on every trip. Also cultivate from opposite ends at succeeding cultivations as you will then have a better opportunity to cut tough

"Finally, I like to get the corn in the silo as it glazes. Frost does not injure corn seriously, but if we cannot get the corn in the silo we prefer to cut it at the proper time and let it lie. We always have it cut before the silo filling outfit comes around."

The Discontented Farmer

(Hoard's Dairyman.)

HATE dairy farming because it is too confining, too much hard work and care," said a farmer. Then he rushed over into sheep farmhunting for a soft place in that, but he found that there were no dollars in soft places. Then he went into grain growing until he found he was selling out his farm by the bushel and that an outraged nature was slowly taking her revenge out of him for trying to make money without the use of close application and constant care, the same as men must invest in care, the same as men must invest in other callings if they succeed. Then he concluded he would try "dual-pur-pose" dairying, where, you know, you can make beef at a high price and a big lot of money from milk. A lot of sapient editors told him that "there is no reason on earth why a cow should not produce heifers that were profitable for milk, and steers that were just as profitable for meat." So he bought a big, beefy Shorthorn

so ne bought a ng, neery Snorthorn bull with his skin full of beef hered-ity for many generations, "but from a milking strain, you know," and went at it. After wasting years in this vain endeavor, turning off ten unprofitable cows for beef where one could pay her keeping in milk, he found himself an old man with nothing to his credit for his years of whiffling about from one thing to another trying to make money out of a "soft

Then he thought he would go over and consult an eminent lawyer as to the secret of his success. The lawyer the secret of his success. The lawyer told him that it had been obtained only by the hardest of study and the closest of application, working many hours every day for years. But that did not satisfy the farmer. "Surely," he said, "there must be some place in all earthly callings where money can be found without so much hard work weeder, we start the cultivator. Our be found without so much hard work cultivator is a three-horse machine, and close confinement," So he questivating one row and half of two other laughed at him and said, "Why there rows. It has two tongues which are farmer in the land that works makes it very steady. The advantage as many hours in the day as I do. I of the style of cultivator that straddles am at it every work day in the year from seven o'clock in the morning till nine at night, and then sometimes I work and ill midnight on my books." But this did not satisfy the farmer, and he questioned doctors and he found it was only the lazy ones who had any leisure—and they were as poor a Job's turkey, and so it ran everywhere. Nowhere could he find a chance of get hold o' money without close so get hold o' money with close confinement and hard work unless he stole it. Then is returned unless he stole it. Then is returned unless he stole it. unless he stole it. Then he returned to the farm and said, "What a fool I have been that I did not see things in their true light."

Tankage for Hogs

ANKAGE, as a supplement to corn rations for hogs, is more profit-able than linesed oil meal at present prices, and for nearly all classes of hogs 4s a more valuable feed.

Recent tests at the Minnesota Exrecent tests at the minnesons ra-periment Station are of interest to every hog raiser who does not have plenty of milk or buttermilk. R. C. Ashby, in charge of swine at the University Farm, gives the following results with hogs fattened for market.

Of five lots of hogs fed from Decem-

er 22, 1914, to February 24, 1915, three were fed on corn, shorts, and tankage, and one on corn, shorts, and oil meal The average ration for the tankage lots was:

ts was: Shelled corn 84.45 per cent. 7.37 " Tankage

The average ration of the oil meal

Shelled corn 77.83 per cent. Shorts 8.20

Shorus
Oil meal 13.58 " "
The initial weight of the oil meal lot
was 136.75 pounds; the final weight
was 136.75 pounds; the average daily gain 211.70 pounds; the average dally gain 211.70 pounds; the number of pounds of grain for each 100 pounds of gain was grain for each 100 pounds of gain was grain for each 100 pounds of gain was 531.13; and the profit per bushel of grain 5.3 cants. The average initial weight of the three tankage lots was 138.83 pounds; final weight 228.17 pounds; the average daily gain 1.39 pounds; the number of pounds of grain 1.39 pounds of grain 1.39 pounds; the number of pounds of grain for each 100 pounds of gain 482.16; and the profit per bushel of grain 12.5 conts. All feeds were paid for at the following prices: Corn 5 cents a bushel; shorts \$56 a ton; oil meal \$36 a ton, tankage \$50 a ton. a ton, tankage \$50 a ton.

Tankage Scores Again.

From December 24 to March 23, Mr. Ashby had on feed five lots of fall pigs, each lot receiving somewhat different rations. Of these one lot was fed corn, shorts, and tankage, while a second lot was fed corn, shorts, and oil meal The tankage fed lot made an average gain of 0.722 pound a day, and the oil meal lot 0.621 pound a day. The tankage fed lot made 100 pounds of gain each 376 pounds of grain eaten, while the oil meal lot required 460 pounds of grain for each 100 pounds of gain. The feed cost of 100 pounds of gain on the tankage lot was \$4.32 and on the oil meal lot was \$5.27. Tankage is a product marketed by

the packing houses and is obtained from animal carcasses—blood, meat scraps, etc. It contains 60 per cent of protein and from 15 to 17 per cent. of mineral matter, while oil meal contains 31 to 33 per cent of protein and from 6 to 7 per cent. of minerals. Mineral matter is used to build bone and frame, and protein is used to build bone and frame, and protein is used to develop muscular tissue, blood, and vital organe. Tankage is rich in lime and phosphorus, two materials greatly needed by young hors and brood sows.

A certain amount of oil meal is good, but a mixture of the contract of the contract

but a mixture of the two feeds is better. The man who can supply all his feeds at home is fortunate. He who must buy should secure those materials which serve his purpose best and give the largest return for their cost

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DRITT roads a nights, and wo wheat, \$3 a b doz.; tu \$1.50 a J. A. D CAMI last few The sno few are stock a selling i sows, \$1 85c to have de the fee poor. I price. far. Ca fat catt 000

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ANOT

Diseased Liver

Postal Card Reports

Correspondence Invited

PRINCE COUNTY, P. E. I.

PRINCE COUNTY, P. E. I.
KENESINGTON, March 23.—The weather all this month has been fine and mild, with good hauling. There has been a with good hauling. There has been a constant of the second of th

GARLETON COUNTY, ONT.

GRANLETON COUNTY, ONT.

FROM THE TON THE TONE TO THE T

DURHAM COUNTY, ONT

DURHAM COUNTY, ONT.

CAMPIBELICATIOFT, March 23.—The
last few days have been good sap weather.

Last few days have been good sap weather.

We ware making syrup, and the same state of the same

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A polations have been offered so proceed to the process of the pro

ANOTHER BREEDER TO PRINCE EDWARD.

Recently one of our readers of Farm and Dairy, and a breeder of good Hol-ticks, Mr. F. J. MoAlpin, of Korngot took Farm, Gananoque, moved down and Prince Daward County, where his

herd is already beginning to carry on the good work started at his former farm. In a letter from Mr. Makhgin, recently, he says: "Our herd of pure bred Holsteins had not intended doing any testing this apring, owing or coming, and are coming and suppring, owing to the change we were making to the change of the comparing the saying of the change of the comparing the saying of the comparing the saying of the change of th HAD a sheep which was sick for a week. She went around with her head down, and would not eat anyther the second of ally occurs and its cause is not well understood. Feeding food containing large quantities of saccarine matter is supposed to cause it, as large quantities of saccarine matter is supposed to cause it, as large quantities of saccarine matter is supposed. supposed to cause it, as large quantities of roots. The condition cannot be definitely diagnosed and in most cases is not suspected until a post mortem is held, and even though it may be diagnosed there is no known treatment that is effective.

IS YOUR PAPER CORRECTLY ADDRESSED.

Please look at the address label on your copy of Farm and Dairy. See if we have your name spelled properly with the correct initials. Is there someone in your neighborhood with the same surname and initials? If so, send us your correct Christian name, also your rural route or post office box number. Have you moved recently, and is your paper still going to your former post office address, and being re-forwarded. If so hadn't you better let us know, that we may send it direct to your paper. send it direct to your present correct address. Attention to these details means more prompt delivery of your paper. When writing us send all particulars, old address and new. Do this now and you have our thanks for your prompt atten-



The Surest Way To sell your surplus stock is through the live stock columns of Farm and Dairy. The cost is little and the results certain. Send in

Answer Your Country's Call by Producing Larger Crops



TORONTO, April 2—Sir George Forters attempt to buy the wheat crop discussion its one of the main topics of are now beginning the tendency was to decreasely as a contract of the western farmers, but now a more of the main topics of the tendency was to decrease and the contract of the western farmers, but now a more of the stand taken by the farmer of 1.12 was merely to have a more of the stand taken by the farmer of 1.12 was merely a material farmer of 1.12 was merely was material farmer of 1.12 was merely was material farmer of 1.22 was merely a material farmer of 1.22 was merely was material farmer of 1.22 was merely farmer were left free to take the material farmer of 1.22 was merely a material farmer of 1.22 was merely was m

Standard

SEPARATOR

Gets all but

% pound a

of cream in 1000 pounds

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Ordinary

separators lose a

whole

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1000 pounds

old Pan-skimming

of milk skimmed

cariots, \$7 to \$7.50 m car lots.

POTATOES AND BEANS.
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LIVE STOCK. Receipts of live stock on the Toronto market during the past week have not been large. On the first day of the week

The Sale Programme

Thursday, April 5th, is the date of the consignment sale of the Southern Counties Ayrahire Breeders' Club, at Woodstock, Ont. Mr. John McKee, Norwich, is the Secretary.

retary.

Mr. A. D. McGugan, reprietor of Glenore Farm, Rodney, Ont, will hold an unreserved dispersion of Glenore Farm, Rodney, Ont, will hold an unreserved dispersion of the Company of Compan

roy, or ure buen, only, or secretary. J. E. Arnold, the noted many of the secretary and light horses, will offer heavy and light horses, will offer heavy and light horses, will offer on the secretary of the sec

price advances were effected in many classes, but toward the end of the week classes, but toward the end of the week classes, but toward the end of the week classes were last week's level and the last to the classes were last week's level and butchers. Cows were draggy all through the last. Cows were draggy all through the last. Cows were draggy all through the last. Cows were draggy all through the last of the

to \$2.76; feeders, \$7.50 to \$2.50; stockers, \$5.50 to \$3.50; canners and cutters, \$5.50 to \$3.51; canners and cutters, \$5.50 to \$3.51; canners and cutters, \$5.50 to \$4.50; canners and cutters, \$5.50 to \$4.50; canners and medium, \$1.50 to \$1.50; ppringers, \$5.50 to \$1.00.

10. \$1.50; ppringers, \$5.50; ppringers,

Farm. Elma. Flayne ful ar looks Judgli would feed her 5 Jane over 4 She 1 also a 40-Pontis days.

ANOTHER 30-LB. RECORD.

ANOTHER 30-LB. RECORD.
The Highhand Lake hard of Mr. R. W.
E. Burnaby, at Jefferson, Ontardo, has
actided further to lis records by just turnactided further to lis records by just turncodes Queen, to lib. cow. Simcon Mercodes and the lib. cow. Simcon Mer
codes and the lib. cow. Simcon Me

On which side of the book is YOUR Cream Separator?

A SK yourself this question, "Which will pay me better (1) to buy an ordinary separator that costs, say, \$55.00, and loses a whole pound of cream to every 1,000 pounds of milk skimmed, or (2) to invest in



—the separator that gets all but one-tenth of a pound of cream per 1,000 pounds of miks akimmed, and costs, say, \$75,007.

The answer is that with a Standard you save in one year, with twenty cows, no less than \$27.25. Here are the figures:

Pan Skimming 5.25 3.75 (5%) 3.00 3.75 5.50 (10%) 30.00 \$70.00 \$12.00 \$39.25 \$70.00 Saving over ordinary separators Saving over old pan skimming method

The Standard's close skimming is substantiated by tests made at Govern-

shafts made of tool steel instead of ordinary coid rolled steel, centre bal-

wear. Will it not pay you handsomely to have the up-to-date, close skim-ming Standard? Let us send you a Standard so that you may test it in your



The Renfrew Machinery Co., Ltd., Head Office and Works, Renfrew, Ontario Eastern Branch: Sussex, N.B. Agencies Almost Everywhere in Canada

417

917.

LOOKING OVER SOME NEW YORK
LOOKING OVER SOME NEW YORK
LOOKING OVER SOME NEW YORK

OVER SOME NEW YORK

HEADS.

UITE recently one of our breeders of
Holsteing, Mr. D. H., Proster, of
of the large heads in New York State. It
occurred to us that the readers of Farm
and Daily would be interested in some
and Daily would be interested in some
interested in New York State. It
occurred to us that the readers of Farm
and Daily would be interested in some
interested in New York State. It
occurred to us that the readers of Farm
and Daily new William
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interested in New York
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All of them weee first
outle in State
and Should have been seen and should not be should be
outlete in So days. They have all gives over
400 lbs. milk each in 7 days. Two others
were started under test while I was
the state of the State of the State
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All of the State
o The stated everything would be sold treb.

"On March 2nd I visited Pine Grove Farms, owned by Oliver Chima. Jr. of Sprams, owned by Oliver Chima. Jr. of Sprams, owned by Oliver Chima. Jr. of Payms, Owned Williams, owned Sprams, owned with a mass of voising. End would be capable of consuming all the would be capable of consuming all the feet they stated she ats while making would be capable of consuming all the feet they stated she ats while making you have been supported by the state of the Portlace, which ever 800 has of milk in Tortlace, which were 800 has of milk in Tortlace, which was ordered to the state of the Portlace State of the Portlace, which should be stated to the state of the Portlace, which should be stated to the state of the Portlace, which should be stated to the state of the Portlace, which was offered to the state of the Portlace, which was offered to the state of the Portlace of the Portlace, which was offered to the portlace of the Portlace of

LOOKING OVER SOME NEW YORK HERDS.

would record over. He is a beautiful in-dividual, weighing about 1,300 hm. He is much better than his photo shows him, as he is a buil of great width. He is very quiet, and I found his hide and hair extra good. His daughters all resemble him. "The sacretty of help did not permit me to see any more of the great New York Sitete herds of Moisteins."

THE RODNEY SALE ON APRIL 10.

APRIL 5, 1917.

SPRINGBANK NOTES.

DITOR, Farm and Dairy—We are pleased to state that the daughters of Netherton King Theodors, Imp., and the state of the state THE RODNEY SALE ON APRIL 10.

There will be some especially good buying at the Holstein sais of Mr. A. D. McGuigna, at Glenoro Stock Parm, Rodney,
McGugan, he is located in a district
where dairying is not certied on to any
extent, and the 50 heads of heavy producstrent, and the 50 heads of heavy produthey would if he were located in any of
the leading dairy districts. Although no
the leading dairy districts. Although no
the leading dairy districts. Although no
they could be seen to be a seen followed from the first, and only the heavy
producing ones and high testers were revery best, and some but high class sires
have been used. Many of the cown in
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producing ones and high testers were revery best, and some but high class sires
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cown, only three of which averaged, are
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cown, only three of which averaged, are
large and of mod type, but the kind as
soonly makin. He were seen of the
solid. This is one of the best show bulls
stock will show. Itil dam was grand
champion at London, and his airc. Dutchsolid will be well worth white for
fine the seen of the seen was continued in chande. Owing to Mr. McGugan's
continued in health, everything must be
for sale. The cattle have not been fitted
for which we have the worth white for
large to the three well worth white for
large to the seen of the seen of the seen of the
GOOD STOCK MOVING RAPIDLY.

GOOD STOCK MOVING RAPIDLY.

GOOD BYOCK MOVING RAPIDLY.

The demand for good Radstin breeding continues to be very strong in On-larid, and breeders in general are reporting many assets. J. W. Richardson, of Combonia, reporting assets of Holdstins for the Combonia, reporting assets of Holdstins for the Combonia for th

FAT PRODUCTION RECORD BROKEN.

AT PRODUCTION RECORD BROKEN.

AM advised through preliminary seports and by wire that the ReyestPriosian before. Allasmuchy Korndyke
Rose, 247043, has broken the record for
fat production in the senior two-year
class of the 30-day division, by producing
talaning 97.22 lbs. fat. She freebened at
the age of 2 years, 6 months, 14 daya
Her afre is Korndyke Abbekerk, 34602, 1
Her afre is Korndyke Abbekerk, 34602, 1
162573. She was bred und is now one
year of the 10-day division she displaces Filet
for 30 days is 206 ibs. milk, containing
50.40 lbs. fat. If computed on the 30-day division she displaces Filet
for 30 days is 206 ibs. milk, containing
50.40 lbs. fat. If computed on the 30-day division she demonstration
for 30 days is 206 ibs. milk, containing
50.40 lbs. fat. If computed on the 30-day
would amount to 131.45 lbs.—Maintoin II.
Gardner, Supt. A. R.

AYRSHIRES

FOR SALE AYRSHIRES AND YORKSHIRES

Having purchased from Senator Owens the Riverside Farm at Monte-bello, Que, and his celebrated Herd of Ayrshire Cattle and Yorkshire Pigs. Les new Offering Ayrshires, all ages, male and female, especially Buil of the Cattle of the Cattle of the Cattle of the Cattle of the delivery in March, April and May. Price 55.09 wach when five to his weeks old. Registery obsepth Pesant, Proprietor, or Robert Sinton, Manager, Riverside Farm,

TANGLEWYLD AYRSHIRES

The Leading R. O. P. Herd Large Cows, Large Tests, Large Re-cords, High Testers. Choice Young Bulls and Bull Calves and a few Cows for sale.

WOODDISSE BROS., R. R. NO. 1. MODREFIELD ONT

Fernbrook Ayrshires for Sale

Bulls from 8 to 12 months old, out of dams closely related to the two greatest Ayrabire cows in the world, Garclaugh May Mischief and Jean Armour. COLLIER SROS., Beachville, Ont., Oxford Co.

(37)

TROUIRUN AYRSHIRES
For Quick Sale.
One choice large show bull, framionable color, and a beauty of grand breading. Number I constand breading. Number I constand breading. Number I constand breading. Number I constand the property of the pr

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We offer an exceptionally good pair of bulls, 12 and 14 months old, from particularly choice R. of P. cows, with R. of P. sires. Will be pleased to give descriptions. W. W. BALLANTYNE & SON R. R. 3, Stratford, Ont.

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Young Stock for sale, always on hand (both sexes), from high-testing beavy producers. Good udders and large teat a special feature of my herd. Three fine young Sires ready for service. Get particulars of these if you need a sire. R. T. BROWNLEE, Peach Blow Farm, HEMMINGFORD, Que.

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Mature cows and young stock for sale always on hand (both sexes) from large neavy producing high testing cows, sired by Robin Hood of Fairmount, Imp. U.S.A. No. 42184, son of the famous Netherhall Robin Hood, Imp., No. 25782. Inspect herd or write for particulars. B. J. TAYLOR

AYERS CLIFF, QUE.

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For sale. One yearling bull, first
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Also for sale a few choice bull
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of R.O.P. blood.

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Only two bulls left-6 and 2 mos.
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Alcartra Calamity, whase ten nearest dams average over 30 lbs. butter, with almost 45% fat. Also
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CEDAR DALE HOLSTEIN BULL. CALVES AT SACRIFICE Series Walker Korndyke, whose full sister gave four-year-old, and with his twelve half-sisters average 4 per cent. or better. These caives are nicely most of the control of the control of the control of the caives are nicely made and out of TAOLP. Showledge and out of TAOLP showledge and control of the caives are nicely made on the caive and control of the caives are nicely made on the caive and the caives are nicely made on the caive and the

A. J. TAMBLYN, ORONO, ONT.

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Present offering—A show bull, 16 mos. odd, from a 26.02 tb 3-yr.-old daughter of DUTCHIAND COLAN-THA SIR ABBEKERK. Price, \$175.00.

LAIDLAW BROS. AYLMER, ON I. R. R. No. 1, Elgin County.

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No. 2.—From a 18,000-1b haifSix mature cows and many others
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Would be glad to sell several
beliers. Some bave freshened and
quote attractive prices. Write
Haze H. Feg. R.R. 2, Omemee, Ont.
Shipping facilities G.T.R. or C.P.R.

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A number of pure bred Holstein buil calves, aired by Burnside Hengerveid Korndyke, whose dam gave 110.5 lbs. milk one day and 27.51 lbs. butter seven days. From heavy milliding dams. Price, \$26, delivered. Write me if you want a bargain. Satisfaction guaranteed. Jas. Moore, R.F.D., Almonte, Ont.

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100 choice cows, heifers, heifer calves, bulls, bull calves. Write us your requirements and we will quote you at attractive prices. Apply at

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Hend size, AVONDALE PONTIAC ECHO (under lease), a con of MAY SCHO STATA; and the second of the secon t of a 20 Ms. Segis cow. He is for mane. If Mile Segis cow. He is for males or females.

W. E. BURNABY, (Farm at Stop 55, Yonge St. Radial), Jefferson, Ont.

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Are still in the lead. The latest Holstein year book shows that they held 4 Canadian Records for bitter, and Lakeview buils have won all knows possible at both Toronto and the Pathibition, 1915 and 1916. Now are offering several richly bred young lives that are looking forward by the property of the p

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Choice young bulls of first-class breeding from srandson of Pontiac Kornpolice young bulls of first-class breeding from srandson of Pontiac Kornton of the policy of t

Great Demand for Pietje Bulls Why—Because they are such excellent individuals. Because they are all great producers.

We are offering three youngsters aired by this great bull, WOODCHEST SH CLYDE. They are three the property of the property of

H. LYNN, Manager, AVONDALE FARM, BROCKVILLE, ONT

- HOLSTEINS -

Could spare 10 cows or helfers bred to the Great Buil KING SEGIS PON-TIAC DUPLICATE. Have one yearling bull, and calves from 10 months down. Myrtle, C.P.R. Manchester, G.T.R. R.M. HOLTBY,

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salesters averaging over 33 Be. butter 120 STRUELS. with five two-year-old
spiters averaging over 33 Be. butter 120 STRUELS.
or indexy marked; a show bull and a sure settler was 4 years old last
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M. E. MAYSEE, Prop., R. R. No. 5, TRENTON, ONT.

-FORSTERCRESTSTOCK FARMS-

All buils over six months of age sold. Present offerings, young ones, aired by sons of King Johanna Pontiac Korndyke, brother to a 38-ib. cow. Would sell one or two young cows.

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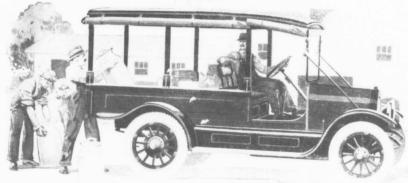
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Owing to the continued serious illness of the proprietor, everything on the farm must be sold. There are forly registered Holateins, including the great three months old. There are 1 registered formation of the proprietor, everything on the farm must be sold. There are forly registered Holateins, including the great three months old. There are 1 registered formation in the proprietor of the proprietor of

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These Overlands are as keen for the work of farm hauling as for the constant hard usage in commercial delivery work.

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We find the cows prefer it (the Empire) to hand milking, and their flow has actually increased."

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