# FARM AND DAIRY RURAL HOME



Peterboro, Ont., April 20, 1916





HIS FIELD OF SERVICE.

-On farm of Thos. Chapman, Huron Co., Ont.

ISSUED EACH WEEK

Rural Publishing Co., Limited, Publishers

ONE DOLLAR A YEAR

## The "SIMPLEX" Cream Separator

As shown in the likestration herewith, is a convenient ma-chine. It is of convenient height to operate. The supply can is low down, and yet the discharge pipes are high enough up to discharge into standard sized milk cans.

The machine is easily accessible for cleaning. It is substantial and heavy. It will last almost a lifetime.

It will pay you to know all about the "simplex." There are exclusive features on the "Simnot to be had on any other separator.

In addition to the mechanical construction which is all to the good in In addition to the mechanical conscription which is all to the most any your favor, we are sure that there is no manufacturer using a higher grade of material than we use in the "Simplex" separators. Take for instance, the bowl spindle. It is made of a special formula, furnished by instance, the court spirate. It is made of a special round, the consulting metal-ions of the best metallurgists in the country. In fact, the consulting metal-lodgist for the leading manufacturers of American automobiles.

The favorite everywhere it goes. Note its beauty and heavy compact construction, with low-down, hand supply can only 3½ ft. from the floor,

This steel is subjected to a special heat treatment, whereby it has an tic limit, three times as high as ordinary steel. The same is true of the bowl cover, and of the middle point or pinion, that meshes with the larger apur wheel. It is made of Vanadium steel, or nickel steel, of the same kind that is used in the transmission gears in the best grade of automobiles. We believe that we are the first to use these special alloy

atomia in cream separatore construction.

The 'Simplex,' an far as we are sible to judge, represents a higher manufacturer's cost than any other separator on the market. The two Hess-Bright bearings that go in every "Simplest" Hand Separator, cost more than all the bearings got together in most other cream separators. And yet on account of the barge number that we import, single orders covering over 19,000 bearings at a time, we are sible to furnish them as actreas at a reasonable price, so that the cost of registeromsent, if needed,

We believe that "the proof of the pudding is in the eating." We allow you to try out the "SIMPLEX" on your own farm. Write us to-day for free illustrated literature about the "Simplex." Arrange to have a "Simplex" Cream Separator on your farm. Then you will make sure that the "Simplex" is the best cream separator for you.

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THE IMPERIAL OIL COMPANY BRANCHES IN ALL CITIES

When You Write---Mention Farm and Dairy

#### Practical Experience With Mare and Colt Jas. Betts, Simcoe Co., Ont.

E don't go in very extensively for cost raising, but every year we have one and sometimes two or three. We place our chief reliance or three three deads and somewhat we come the control of the coll group in a broad mare that is now 14 years of age and that scarcely over fails to present us with a good lively youngster every apring. Up to the present time we have had fine coits from her, of which she had lest only one and that by accident. We do not know her breeding exactly, but have found that when bred to good Clydredales she produces strong, healthy colts which will studin a weight on around the weight of a round in the coll fashioned in the but 1 am a greek believer in baving a brood mare that is a natural born mother. From my own, observa-

born mother. From my own observafrom the older men amongst my neighbors, there have always been two or bors, mere have aways oven two or three outstanding brood mares in this district. I myself remember one who raised in all 13 colts of excellent size and quality. On the other hand, some mares seem to be always get-ting into difficulty with their feals, so that they really double the risk that their owner runs in raising colts. My their owner runs in raising colts. My old mare generally his good luck and though she is getting old, she seems to be good for some years yet and I expect to raise a few more colts from her before she is through. When her days are over, I have another one coming on, which promises also to be

Good, Natural Mothers.

As I said before, I believe that the rst requirement in the brood mare, is first requirement in the brood mare, is that she be one of these good, natural mothers. The pext thing is that ahe have abundance of exercise during the winter and spring months. I take par-ticular care not to put my brood mare at work where she has to wade through snow that is too deep, or where she has to do any jerking such where the has to do any jerking such as a cetting out aswlogs. Joseging to the village, drawing out manure, feetching up a jag of wood and doing the ordinary trucking about the farm, will give her abundance of exercise of the right kind. When it is key, I make it a point to see that her shoes are on and kept abarry, especially on the free of the right kind. When it is key, I make it a point to see that her shoes are on and kept abarry, especially on the free of the seed of the seed

eliminated.

4 sessally have the colt come late in the spring, generally after reeding. The mare works throughout the sending, but she is always given the preference of the lighter jobs, such as harrowing and plowing. I nover put her at such jobs as drawing stones, where the solution of the solution o eral feeding, tends to make a smart and healthy colt.

As the time draws near when she is considered to the cold, I quit working her and not out the heating feeds. As at this time there is naually a 1948 grass. I let her pick around the yard. This keeps her contented and interested, as well as having a lossening effect. As to forecasting just when the cold will arrive, this cannot be done very accurately, though one advantage of having long experience with one brood mars is that one learns to be able to forecast her time presty well. The presence of wax on the texts and the sunken condition around the tail head As the time draws near when she is

Preparations for Foating.

resparations for Feating.
About the only preparations that I make is to have two good wax-ends prepared and my krifts clean and sharp. I also have a clean box stall with plenty of bedding in which she is placed for the right, but if the weather is clear and warm and she fouls during the day, I find that it is per-fectly safe to let her do so out in the field. When the little fellow arrives, fecily safe to let her do so out in the field. When the little fellow arrives, I find that it always pays to be present, but that it does not pay to be coo officious. It is best to watch not not be coo officious. It is best to watch not not be coordinated to be coordinated to be considered to b

where it is tied.

Some put sait on the newly-born colt in order to get the mare to take to it more readily. I, however, have never had any trouble with the mare disowning her colt. That's another advantage of having a brood mare advantage of having a brood mare that is a natural mother. Nine-tenths of the difficulty that is experienced with colts is due to the unnatural conditions under which the mare is kept during the last few months of her pregnancy. Where she is worked in moderation and fed well, there is not much danger of havir g trouble, and if a mare shows indications of being a breeder of weakling colts, or of being unlucky in any way, I take it as being a breeder of weaking colts, or of being unlucky in any way. I take it as an indication that she has not the makings of a suitable brood mare. Success comes from taking care, but not too much care

Boys Are Placed Satisfactorily DITOR, Farm and Dairy,—I must again thank you for your kindness n inserting photo of six James n inserting photo of six boys from our shelter. I received about forty applications. A large number are from the eastern counties of Ontario, three or four are from Quebec and one from Pittoes Edward Island. If any agents in counties east of Toronto have boys to place, it would be pleased to farmish the names and addresses of applicativities. The plant of the pleased to farmish the names and addresses of applicativities.

contact with one another.—Amos Tovell, Sec. C. A. S., Wellington Co., Ont.

Fifty Want the "Live Wire." DITOR, Farm and Dairy,-I should Dittor, Farm and Daily,
have written you a long time
ago re your kindness in adverabildren last Dec. 30 in tising our children last Dec. brought us nearly 100 applications, about one half of which were for the boy I mentioned as "a live wire. thing impossible, others turned out to thing imposance, others turned out to be unsatisfactory, but we have sent out about all we had for adoption. Just as we were ready to send some away the measles took our shelter by storm and for two months we had to wait. We are sending two more soon,

wait. We are sending two more soon, so our sheller is pretty well stripped of those available for adoption. Please scoet, my thanks for your kindness. Your paper has proved to be the best advertising medium for ciriferon we have yel found.—R. C. Hall, Agent C. A. S., Ontario Co., Out.



Trade increases t

VOL. XXXV.

HAVE seen seve Dairy from peor think they wou land. Perhaps it m brief outline of my In 1913, my wife try farming, and h we came to the or would be to take a C of 1914, we came to locality. When all v small babies, my bro out here. It was a

night, when we arri comfort it was raining small oil stove, and the babies off to b quickly as possible, a ourselves, thoroughly out, rested on the ma on the floor. Our furniture had forwarded in advance

we expected to ge within a day or two to make the best of the meantime, Our n lors loaned us a heating stove, a table three chairs, and this all we had until our niture arrived, which old "more or less" even weeks. I shall n forget that seven we it was bitter cold, several times the matt on which we slept frozen to the floor. had nothing to cook v except the heating s loaned us and a small heating a bedroom. V chop wood four and on on our neighbors passi as we had no horses o did we until the fall of for we had very little c once for some \$600, as back, although I obtain in both courts. (I men understand how it was little capital.)

The First Ye

The first year I paid into crop, and by worki get wood, fence posts, got six cows from the tangements with a neig his hay, and we were

PETERBORO, ONT., APRIL 20, 1916

No. 15

# The Experiences of a Back-to-the-Lander

We Have Had Our Disappointments and Reverses But We Like the Life COWPER SMITH, ROCKY FORD, ALBERTA

HAVE seen several enquiries in Farm and Dairy from people with but little capital, who think they would like to be livin; on the land. Perhaps it may be of interest if I give a brief outline of my experiences on the land.

in 1913, my wife and I decided that we would try farming, and having considered the matter we came to the conclusion that the best way would be to take a C. P. R. farm, so, in the spring of 1914, we came to Calgary and decided on the When all was ready, my wife, with two small babies, my brother-in-law and myself, came out here. It was a cold, dreary day, or, rather, right, when we arrived, and to add to the discomfort it was raining. We got out a mattress, a small oil stove, and a few provisions. We got

the babies off to bed as quickly as possible, and we ourselves, thoroughly tired out, rested on the mattress on the floor.

Our furniture had been forwarded in advance, and we expected to get it within a day or two, and to make the best of it in the meantime, Our neighlors loaned us a small heating stove, a table and three chairs, and this was all we had until our furniture arrived, which it did "more or less" after even weeks. I shall never forget that seven weeks. It was bitter cold, and several times the mattress on which we slept was frozen to the floor. We had nothing to cook with, except the heating stove

loaned us and a small oil stove, suitable only for heating a bedroom. We had no coal, so had to thep wood four and one-half miles away and rely on our neighbors passing to carry it back for us, as we had no horses or waggon at the start, nor did we until the fall of our first year of farming, for we had very little cash. I had to sue a debtor once for some \$600, and have never got a cent back, although I obtained judgment against him in both courts. (I mention this so that you may understand how it was we started out with so little capital.)

#### The First Year on the Land.

The first year I paid for 20 acres to be put into crop, and by working for others managed to get wood, fence posts, etc., hauled for me. We got six cows from the C. P. R., and I made artangements with a neighbor to help aim get in his hay, and we were to have one-third as pay-

ment for that and other work I had done for him. He, however, went back on his word, and I was in a quandary to know how to get up another 10 tons. Finally I made arrangements to have 10 tons cut and raked into windrows, and we put it

up ourselves. We had no horses or waggon, but we got that 10 tons harvested by loading it on to a square carpet and hauling it in ourselves. wonder if any reader has ever tried hay making that way. It su. 9 was hard work.

In the fall I was able to get a good team, waggon and hay rack, and it was a satisfaction to be more independent. We planted an acre of potatoes and got a fair crop. Our oat crop, however,

wire and posts o make a really secure fence, and, consequently, the range cattle have gotten quite a few tons out of the 50 the stack contained. We were lucky this year to have a kind neighbor who loaned us his disk and harrow and several other implements, without which we would have been unable to make good. It is this question of implements that the beginner finds the most difficult to cope with. Most of our so-called neighbors will only lend implements in return for a great deal of work. Even then I have worked for some neighbors and would not be loaned the implement when it was of any use to me.

To any city man who is thinking of starting farming with, say \$1,000 or \$1,500, I would advise him if possible to choose his neighbors or make

arrangements, if possible, to borrow implements in exchange for those you have. On the other hand, do not buy any more implements at first than are absolutely necessary, but try to make arrangements to exchange machinery with a neighbor. You cannot afford, however, to wait two veeks for a seeder, and perhaps longer for a disk, but yet you cannot afford to get a seeder or binder when starting on \$1.500.

This year we put in about two and one-half acres of potatoes and got 300 bushels from them which is good considering that it was only the second time the land had been plowed. All kinds of roots grow weil in this district.



The Hay Crop of an Alberta Farm

ie are amongst the most nutritions in the we t excelled. In most sections of the West they ost invariably the hay is stacked in the open, a

was only fit for green feed, as that year was very dry. We raised about 60 chickens, and we had four pigs to kill for winter use. We raised five calves that year, and I had the good fortune to be given a tiny colt. We had no income at all, however, except from cream, butter and eggs.

#### Work of the Second Year,

In the spring of 1915 I got two more horses and a plow, and managed to get in 30 acres of oats, 18 of wheat, some green feed and three acres of potatoes. We then continued breaking new land for summer fallow, and we have now about 80 acres broken. I did not have sufficient cash to put up a proper fence between the pasture and crops, and we had great difficulty trying to keep the cattle out.

It is in such ways as these that a man with too little capital has to suffer. It was the same with our hay stack this fall. I could not get enough Our Live Stock.

Last spring was a poor one for raising chicks, and out of 200 incubator raised chicks I have unly about 100 left. I believe, however, that the place is ideal for chicken raising, as it is usually so dry under foot.

In regard to dairying, we have only grade cows, but they do well, and the hay costs us nothing but the cutting and stacking, although I do not think the hay we have is very suitable for cows. We sell our cream and the prices range from 32 to 37 cents a pound of butter fat. Our cows when fresh give about 40 lbs. of milk a day, but we have not been able to feed them as they ought to be fed, and so am not in a position to judge what the profits might be under better conditions.

We have had splendid results from our kitches.

(Concluded on page 6.)

## Making Much of Small Things

Time and Finerzy are Saved by Taking Advantage of the Short Cuts IAS. McCARRELL, MIDDLESEX CO., ONT.

JAS. McCARRELL, I own," says the old tinete

Every little movement has its business significance as well. In a United States magasine a writer tells of how a study of little movements enabled a working man to do much more work in a day, to earn greater pay, and to have more leisure hours to spend with his family.

This working man was employed along with hundreds of others in loading pig-iron on to cars. An efficiency expert took the working man in hand. First he studied every movement the working man made and then he began to direct his movements. The expert started in the morning. He showed the man exactly how to stoop to pick up a pig of iron. He directed every movement the man made until he was in an upright position. He then showed him how to turn as he faced the car. He told him when to move forward to the car, and then he directed every little movement as he deposited his burden on the car floor. Not a movement was allowed to be wasted. All day the laboring manworked under the expert's direction, and at five o'clock in the afternoon he found that instead of loading a thousand blocks, his usual day's work, he had loaded 3,000 blocks, and was not so tired as usual at the end of his work. He was allowed to go home on hour earlier. The efficiency expert by studying every little movement had made that working man of more value to his employers, had put him in a position to command greater wages and to have more leisure time at home with his children.

#### Little Movements on the Farm

Has this little incident any lesson for the farmer? We farmers cover a multiplicity of jobs in the course of a day. Few men have greater opportunities to waste little movements, little minutes, and in the long run little days, than have we farmers. I believe that we could save ourselves much labor did we stop work for a while and spend a few hours co-ordinating the work of the farm. Here is an instance taken from a back issue of Farm and Dairy that illustrates what I mean.

On the Tamblyn farm in Durham county they had been accustomed to walk for 40 years around the end of the barn to reach the stable door. In the natural course of events the elder Tamblyn resigned his position as farm manager and his son took his place. I do not know whether young Mr. Tamblyn had studied efficiency and the significance of "every little movement," but at any rate he had the application all right. No sooner was he in command than he cut a door through the near side of the wall into the stable. which meant that he saved himself and his men 60 feet of walking every time they went to the stable.

#### Saved 72 Miles a Year

It does not sound like much, does it Sixty feet is only 20 steps, and the slowest man can walk 20 steps in a few seconds. In the aggregate it means a lot. It means that one man taking three trips a day one way saves 12 miles in the year. But the man who goes to the stable necessarily comes back again. trips a day both ways meant a saving of 24 miles. On a farm the size of Mr. Tamblyn's there would be at least three persons travelling between the house and the stable, and that little door, which probably represented only a couple of hours' work, will save to the farm the time that it would take one person to walk 72 miles, which is equivalent to the distance travelled in giving a 10-acre field of corn four cultivations.

In the nearby county of Prince Edward is another farmer who believes in efficiency. Like all other good dairymen Mr. James Anderson believes that the milk stand should be a safe distance from the stables and barnyard. The common ordinary way of taking the milk to the stand is to milk a couple of buckets full, walk out to the stand and empty them, and then back to the stable and fill them again. Mr. Anderson has a different plan. He constructed a track from the milk stand right to the stable door. He then constructed a truck to run on the track. The milk cans are loaded on to the truck, wheeled out to the door, the 30 or more cows are milked, the milk loaded into the cans without any travelling whatever, and then pushed back on the truck to the milk stand. I have not figured out just how much travelling Mr. Anderson saves in the year, but it would be as much as Mr. Tamblyn saves on his door multiplied by several times.

#### Efficient Egg Collection

And still another instance taken from a back issue of Farm and Dairy. A few years ago cooperative egg circles were organized in Peterboro county. One of the rules on which members were admitted was that the eggs should be gathered twice a day during the summer months. This looked like a lot of trouble to most of the circle members. One man solved the problem to his entire satisfaction. When he went to feed the pigs he always remembered to carry a little basket along and collect the eggs at the same time. In coming in from the stable at noon he visited the henhouse on the way. Thus the requirements of the circle were met without any extra trouble. I know for a positive fact that the twice a day collection of their eggs represented two special trips to the henhouse for many

The planning of the interior arrangement of the dairy stable represents a big problem. The problem of whether the cows shall face each other or not is of vastly more importance than most of us would think. Our decision means the saving or wasting of many little minutes that aggregate many hours in the course of a The arrangement of litter and feed carriers also represents a big saving that is de-

manded by true efficiency.

Efficiency in modern business, and in modern business I include farming, means the difference between success and failure. The man whom the employer raises in pay is the efficient man. The employer who succeeds in competition with other employers is the one who can direct his labor most efficiently. We farmers, by studying efficiency, will be enabled to pay higher wages to our men. We will be able to take more leisure hours ourselves and to partake to the full of the pleasures that country life affords when we are not burdened with overwork. Shall we start now to study 'every little movement "

Plowing and Harrowing

Showing It Is Advisable to Harrow Before and After Plowing J. A. MACDONALD, PRINCE CO., P.E.I.

ON'T plow sod or any stiff land in the spring unless you are certain of a wet season. Plow it the previous fall. Fig. 1 represents such plowed ground, showing air-space between

Fig & Disked Before & After Plowing

Diagram Illustrating the Benefits of Harrowing

both before and after Plowing.

the turned-over furrow-slice and the ground heneath. This air space prevents a firm and complete seed-bed from being made and stops capillary connection with the sub-soil.

Fig 2 is plowed ground disked. Note that the air spaces, as in Fig. 1, still exist. The harrowing has not filled them up. This is what happens when strong ground is plowed without first being harrowed with a disk harrow. The only thing that will close those air spaces'is a wet season. With a dry season the crop is usually a failure.

Fig 3 shows ground harrowed before it is p.owed. The mulch breaks the eapillary attraction so that moisture cannot escape from the top of the ground. This permits what moisture there is in the ground to come close to the surface.

Fig. 5 illustrates harrowing before and after plowing. When the ground is treated in this manner the seed-bed becomes compact and firm in a much shorter time, and permits capillary attraction. This treatment puts the ground in such condition that whether the season be wet, dry or normal, the farmer is not taking any chance.

Fig. 4 is a view of the harrowed surface shown in Fig. 3, plowed. Harrowing, preferably with a disk, the ground before it is plowed leaves a mulch of fine dirt which fills up the air spaces left between the furrowed slices and the ground beneath, thus making the foundation for a firm and compact seed-bed.

In plowing oat ground for fall wheat the oat ground should be disked immediately after the field is cleared, disking lengthwise and crosswise so as to form a mulch to retain moisture, as in Fig. 4. When this ground is plowed later (Fig. 5) the moisture will be retained and, if a dry fall, capillarity will supply the needed moisture to the growing wheat. When wheat follows corn this harrowing, as shown in Fig. 4, is still more important, whether the corn ground is to be plowed

But it is in the spring of the year that this

of this man's neighbors.

taste and is no this account. The cause of been too dev w that I investig corn has been fore being ens time of being mentation sets silage we have For this reason field nor to lear 24 hours before of practical far the binder abo

April 20, 19

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A Ceme By Raymond N T is during the their plans f growing of v agement of the stock, and the

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but there are thins cost during the tir that will increase th a convenience as w a small cement tro ins. deep, that we For the outside

planks, which, by t placed in position, tom of this was pla 8 to 1, which was g in the end. This is The inside form w work is of more importance. The early harrowing, before and after plowing, may make all the difference between success and fallure if the season turns out to be a dry one.

#### Cause of Sweet Silage By J. H. Grisdale.

UITE a number of farmers have written to the Central Experimental Farm this winter stating that their sitage is not coming out right. Instead of being sour, it has a sickly aweet taste and is not relished by the cattle so well on this account.

The cause of this trouble is that the corn has been too dry when put into the silo. In one case that I investigated the fact was revealed that the corn has been allowed to lie for over a week before being ensiled. When corn is too dry at the time of being put into the silo, the wrong fermentation sets up, and instead of sour or acid silage we have a sweet silage of inferior quality. For this reason it is best not to stook corn in the field nor to leave it on the ground for more than 24 hours before putting into the sile. As a matter of practical farming, however, it is best to keep the binder about a day ahead of the ensilage cutter so that an accident in the harvest field will not tie up the whole operation of filling the silo.

Sweet silage may to some extent be avoided even when the corn is rather dry by cutting the corn very short so that if packs better. It is best always to cut it one-half inch or less. Corn cut longer than this is too long as it introduces the danger of setting up the wrong fermentation.

#### A Cement Trough Costing \$2,20

By Raymond Norton, Prince Edward Co., Ont. T is during the winter months that farmers lay

T is during the winter months that farmers lay their plans for the season's operations in the growing of various crops, the care and management of the different herds and flocks of live stock, and the improvements on the farm and home.

Most improvements entail considerable expense



Provision for Summer Comfort: Good Shade and Fresh Water.

The cement trough seen to the left was constructed by Raymond Norton on the farm in Prince Edward Co., Ont., at a total cost of \$2.50. Mr. Norton describes its construction in the article adjoining.

but there are things that can be built at a small cost during the time when work is least urgent that will increase the value of the farm and prove a convenience as well. Below is a description of a small cement trough, 8 ft. long, 16 ins. by 14 ins. deep, that we built,

For the outside form we nsed ordinary 2 in. planks, which, by the use of a spirit level, were placed in position, fastened securely. In the bottom of this was placed one foot of cement mixed 8 to 1, which was given one inch fall to an outlet in the end. This is used in cleaning the trough.

the end. This is used in cleaning the trough. ture birth or inflammation of the ut.

The inside form was made from a 14 inch board. without retained affarbirth. (Mosey, 14 inch board).

and was made 6 inches smaller than the outside one, thereby making a 3 inch space. The corners we:3 rounded, some old strips of tin were placed in the corners of outer form on a curve, thereby giving a rounded corner on the trough. The 3 inch space was filled with concrete made 2 to 1, with sifted gravel. When dry, the forms were re-

moved and the trough plastered inside and out. It also was given a coat of cement wash applied with a brush.

In making the trough we used four bags of cement at 50 cents each, and one load of gravel costing 20 cents, or \$2.20 -for a trough that for durability will outlast several wooden ones.

## Contagious Abortion; Its Spread and Control

It Is Closely Associated With Garget and Sterility in Cows and With White Scours in Calves
BY PROFESSOR W. L. WILLIAMS, CORNELL UNIVERSITY, N.Y.

NUMEROUS inquiries are made regarding sterlity, abortion and mammitis (garget) of cows, and white securs of calves. They are in some ways so closely associated that measures installed to prevent one may affect the others.

Each has been largely investigated, but in no case has the study been at all completed. In a popular circular, data cannot be related nor authorities quoted, but merely general statements and conclusions and conclusions

Abortion in cattle is generally, if not always due to contagion. It is not in itself a disease, but merely one of numerous symptoms. The

given:

phenomenon of abortion is due to an inflammation of the uterus, the fundamental cause of which is believed to be the abortion bacillus. The inflammation of the uterus may prevent conception (sterility), may destroy the life and cause the expulsion of the immature fetus (abortion), or

may cause the premature expulsion of the living fetus (premature birth). Pregnancy may continue for the normal period, a dead or living calf be expelled, and the inflammation of the uterus be recognized later by the discharges, frequently assoclated with retained afterbirth. Each of these symptoms ordinarily indicates the presence in the uterus of the same infection, which is designated "contagious" "infectious" abortion.

Where the Bacillus is Found.

The abortion bacillus is found in the uteri of cows which have aborted, or have suffered from premature

birth, retained afterbirth or other disease. It has been found extensively in the milk of dairy cows, in the internal organs of aborted fetuses, in the lungs of living calves prematurely expelled, and in the joint cavities of calves born at full term. It appears to be the essential cause of some cases of this disease, though generally associated with other bacilli.

The diagnosis of contagious abortion in cattle may be made by:

(a) the occurrence of sterility, abortion, premature birth or inflammation of the uterus, with or without retained afterbirth (Measured by this standard essentially all herds of size are involved),

(b) the recognition of the abortion bacilius in the uterus or in the milk (According to this standard, the disease has been recognized in most



Mother and Daughter: An Object Lesson in Inheritance.

These are Ayrabras of the dairy type—good constitution, good capacity and good tests.

The older cow has political aged the or milk within three months of freshening. She is a think ind to breed from: as a political three months of freshening. She is the kind to breed from: as well. Owned by W. E. Dryden. may be expected to do as well.

dairies where search has been made),

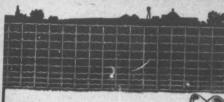
(c) the agglutination and complement-fixation tests upon the blood (According to this standard, the infection exists generally. In single tests we find frequently an animal whose blood will not react, but if we repeat the test we find ultimately that the blood of so many individuals reacts, whether the animal be a cow, bull, heifer, or a young calf, that it is unsafe to assume that a given individual is wholly free!

So far as known, an animal once infected is always infected, though the infection may at times decrease until hardly or not at all recognizable. In many cattle the infection is so mild that it does not cause sterility, abortion, premature birth, retained afterbirth, or other recognizable disease. In adults it is only when the infection is severe in the genital organs that serious disease.

#### Signs of Infection.

According to the most recent researches, the two chief sources of the infection are the milk fed to the new-born calf and the infection within the genital organs. It has been shown that the abortion bacillus exists in the milk of so many apparently healthy dairy cows that the general contamination of milk with this organism may well be suspected. So far as determined, most calves are born free from infection. If a calf born sound is taken at once from the cow and fed exclusively upon boiled milk, the tuft of hairs at the lower part of the vulva of the heifer calf and that about the opening of the sheath of the bull calf remain separate, clean, and unstained; if left with the dam and permitted to suck or if fed raw milk, these sexual hair become matted together and stained a dirty brownish black by the time the calf is thirty to sixty days old. This condition then persists in both sexes throughout life. If grown upon boiled milk and later bred to an animal reared upon raw milk, the sexual

(Concluded on page '6.)



## Well, Sir, that's some fence

Because of its simplicity and amazing strength, "Ideal" Fence excites the admiration of every practical mind. "Some fence" is right. Take a look at it-

## **Ideal Fence**

Notice how the Ideal lock takes a "grape-vine" grip of the upright and cross wires in a strong, even, uniform pressure. There are no sharp angular turns to break the surface of the wire and weaken the grip of the lock. Yet it gins, a but one, the wire in five places—twice on the upright, twice on the horizon and again where the two wires cross. Thus, while it positively prevenue either wire from slipping, it allows just enough play so the face an be erected on, hilly ground without kinking the line wires. At the same time, it keeps the uprights perfectly straight. You wonder the work of the control of the property of the property

May we send you a copy of our catalogus which tells the whole story in a factful interesting way? A post card will bring it promptly.

The McGregor-Banwell Fence Co., Limited, Walkerville, Ontario



REAM is worth too much to waste, yet it is

CREAM is worth too much to waste, yet it is being wasted by the ton every day by old-fashioned methods of skimming. Today there is no excuse for such waste. The Lily bowl gets all the cream is possible to get, leaving only a chop or so to the gallon of skimmed methods of the such as the state of the such as the such

the cream.

There is not even a cream regulating serew in the cream passage-way. You make your cream thicker or thinner by regulating the amount of milk mixed with it, but thick or this, you get all the cream when you use a Lily cream separator.

The bowl is not the only good Lily feature. The McCernicki local agent, who sells Lily cream separators, will show you how every other feature is worked out just as carefully. See him or write us at the nearest branch house.

International Harvester Company of Canada, Ltd.

At Brandon, Calenty, Edmonton, Estevan, Hamilton, Leithfridge,
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#### The Experience of a Back-to-the-Lander

garden, far more than we could handle under our circumstances at the time, as another was added to our family just at harvesting time and added much to the work around the house. We were unfortunate in not getting our crop threshed this year, secting our crop threshed this year, especially as our first year's crop was only green feed. We hope for better things next year, however, and with all the hard work and disappointment of two years without any income from crops, I would not go back to office iffe again at a salary of \$1,500 per anum. The work is hard and never finished, but it is a free outdoor life with no business worries. No amount with no business worries. No amount of worrying will make it rain or not rain and one is absolutely independ-ent. I would advise anyone who is fond of country life and animals and who likes the idea, to start right in, but if married the wife should have every consideration, as it is a hard life for her, especially at first. I would not have started in farming would not have started in farming when I did but for the fact that my brother-in-law is with me, and I can thus help in many ways around the house. I would not advise anyone to start out alone. There are so many things that contracts

saar out aione. There are so many things that require two to do the work properly and help is hard to get. If anyone who reads this letter would like information on various points, I shall be happy to do my best points, I sharfl be heppy to do my bees to answer any questions they may care to ask. I know when I started I wound Mke to have had omeone who had already been through the mill to advise me. For instance, it would have been when if instead of paying for 20 acres to be broken and seeded, I had purchased a mower and rake, and with my one team taken off all the hay I could, which selling at \$2.50 to \$3 a ton would have brought in far

Speculators Gephers. I also failed to realize the noncessity of fighting the gophers. Aithough I speat some 410 for poison, I should have done much more as they were a terrible pest the first year. Let me remark here that if the government would put a tax on gophers or force all land holders to put out a certain and holders to put out a certain affect of the control of the contr lators hold up the land and it rauses nothing but grass and gophers. When a farmer has coisoned off all on his own land, they come trooping in from the speculator's land like the rate after the Pied Piper of Hamelin, and it is all to do over again. A lot of

good grain goes, too.

One old mare that I had died this winter, and I shall have to purchase another horse to replace her. Two or even three horses are not enough in these parts, for the new breaking taken four heavy horses and there is such a short time in which to get the land worked up that it needs four horses, even for a farm of only a quarter section.

summing up the results of two years' work, I cannot say yet whether we shall make good or not. We were especially unfortunate though, and if especially unfortunate though, also we get a good crop off our 80 acros this next fall we shall be able to go ahead in a much more estisfactory manner. One thing I would like to add, and that is I would like to appeal so that aiready been through the mill and that is I would like to appeal to all farmers everywhere to cease where the million and the million

### Contagious Abortion; Its Spread and Control

(Continued from page 5.)

hairs remain clean until bred, when element in the increased losses from they become soiled.

The blood of calves grown upon raw milk, when tested by agglutination and complement-flaxtion, frequently reacts, but so far as we have observed the blood of calves fed upon bolled milk does not react to the test for contagious abortion. In aborting herds we have found that the blood for contagious abortion. In aborting herds we have found that the blood of heifer calves commonly reacts to the abortion tests, that the reaction persists with some variations, hecomes intended to the content of the If any patron of the creamery has a more virulent strain of abortion infection than that generally prevailing feetion than that generally prevailing in the community, each dairyman using raw milk or whey from the establishment exposes all his young calves to the most virulent type of infection in the vicinity, and two years later reaps diseaser in his hofters in first pregnancy. The feeding of mixed raw milk or whey to young calves, whether from the herd of from the creamery or cheese factory, is grobably the most important. tery, is probably the most important

contagious abortion.

The second important source of infection indicated by our researches is fection indicated by our resourches in the genital organs of breeding ani-mals. The afterine cavity of the pregnant cow frequently contains quarts, and even gallons of the "exuquarts, and even gallons of the "extending quarts, and even gallons of the "extending quarts, and even gallons of the "extending the promise his proposed to the state of the extending with abortion has been greatly and after a state of the extending to the extending t abortion infection contained in the milk that taken from the surface of that that the from the surely laying the foundation for sterlity, abortion and retained afterbirth when the heifer has reached breeding age.

has reached breeding age.

Infection and the work which have aborted apparently the suit.

Cove and holders which have aborted apparently the suit of any direct danger for present the suit.

Indirectly however, they may possess groat danger. If the aborter is served by the herd buil before her iterus has wholly recovered, the virulent infection in the cow may be carried by the built through copulation to other cows and cause disaster in the next pregnancy.

According to our researches, once

Why Two It takes Fertili

every s -2 car Order 1 trate of Nitroge The great high-grad filler me purchases

Send f DR. WM. 25 Mac

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3 Timoth White Blosse Clo O.A.C. No. 7 Marquis Spri O.A.C. No. 21

Terms-C Bags extra ai orders East \$25.00 or o

We Guarante or ship back Ask for Sam

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(7)

#### Why Not Cut Off the Two Cars of Filler?

It takes 400,000 cars to carry Pertilizers to our farmers every season. Forty per cent. —2 cars out of 5—is Filler, Order higher grades and Nitrate of Soda for your active Nitrogen and save freight.

The greater producing capacity of high-grade fertilizers without much filler means bigger out-bound tonnage for railroads and bigger purchases by farmers.

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Has been the

standard for years.

The mica fills the

pores in the spin-

dle. Saves fric-

tion, wear and

a cow conceives and her uterus becomes seated, which occurs within thirty days after conception, the fate of the pregnancy is sealed. If the other control of the pregnancy is sealed. If the normal, the pregnancy is assured against the pregnancy is assured against the pregnancy in the pregnancy is assured against the pregnancy in the pregnancy is assured against the pregnancy in the pregnancy of the pregnancy of

When it breaks as a storn fin a herd of presmant cown and helfers, it will run its course, and the state of the disaster can be known of the disaster can be known of the disaster can be known of the state of the teach of the state o

die or be ruined.

Carboile aeid, methylene blue,
abortion vaccines and other alleged
abortion vaccines and other alleged
remedies of various kinds have been
used. Many secret nostrums are advertised to cure sterility and abortion,
but each is worthless. If any one of
them could carboile, if any one of
them could case, but it inCreases.

#### Quarantine Useless.

The quarantine of aborters has always failed, and must continue to fail, because it merely removes an animal ways failed, and must continue to fail, because it merely removes an animal which shows one symptoms so storilly, retained afterbirth and other evidences of the same infection. The removal of all innership animals would commonly involved animals would be animal animal cause animals and animals animal

The disinfection of the stable and of guiters, so profusely recommended for the control of abortion, is guidely expected for the control of abortion, is guidely expected for the control of abortion in the stable hygiene, if well done in contagious abortion. The infection which is causing abortion or retained after-birth is in the stable of the cow, not in the stable of the country of the count

To be concluded in next week's issue.

Bondres have been the cause of much property damage. If one is necessary have it well removed from buildings and wooden fences, and befor leaving it make sure it is



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POTATO MACHINERY

CANADIAN POTATO MACHINERY CO., LIMITED. 493 Stone Rd., GALT, ONT. Send FREE—"Money in Potatoes."

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Use an extension head disk harrow and

We liven up every tree.

Orchard tillage pays as big as field tillage—especially where it is carried close. Note the illustrations below—see how the cultivation extends beyond the team and under the low limbs Here you have the orchard tool of unsurpissed efficiency—the

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Both Single and Double Action ney have Cutaway (Class) cutlery sel disks, forged sharp, Close up

They have Curawar (Caarx) cultiers steed disks, forged sharpy, Close up into a regular harrow for field work. Light in draft. The single action is reversible. If your dealer has not the greating Curawar write to us direct. Be sure book, "The Soil and Its Tillage," Get your copy now.

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Noher of the original CLARK dish horrows and plows
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You'll Find the Advertisers in FARM AND DAIRY advertising reliable goods. They want to know you; also want to know you, also want to know you, also want to know here you saw the Ad. When writing them don't forget to tell them



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No. 1 Red Clover\$16.00
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orders East of Manitoba of \$45,00 or over we pay the freight. We Guarantee Seeds to Satisfy or ship back at our expense. Ask for Samples if necessary.

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Order Your Day Old Chicks Now

We have the best strain of Bred-to-Lay S. C. White Leghorns on the market. They will fill the egg basket next winter.

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# Long Span Gates

are so rigid—so strong—so thoroughly and scientifically braced that

own fire years cleaving and accountically braced that even after years of service shey properly hung, shere will be no dragging on the ground—so necessity for having too lift or earry the gate open or shue. It will always aving easily and always holdits and the ground—so have been always to the same of the gate open or shue. It will always aving easily and always holdits are

#### Made of Best Materials

Frame work of 154-inch steet tubbar electrically welded together. Precriess pipe braced also are all filled with 180, 9 Open Henrift advantaged and the strength and mability—weather proof and stock proof. Bend for the constraint and are from and poultry fearing, also our ornamental fonce and gaton.

The Illuminated Holy Bible

With 600 Original Illustrations

of this Bible is due.

Agents nearly everywhere. Agents wanted in open territory.

THE BAHWELL-HOLE WIRE FERDE COMPANY, Limited Winsipen, Sine. Bamilton, Ont.



#### At Hatching Time

HE enthusiasm of the pour often gets him into trouble.

Particularly at hatching time.

He wants to see how his three weeks of careful attention to the incubator of careful attention to the incubator is going to result, so the door is open frequently and the insteh disturbed. The door of the incubator should never be opened when the chickens are expected. Moisture occapies and moleture is more incessary at hatching than at any other time. Also, the incubator should be kept dark, so that the chickens will remain quiet and not the chickens will remain quiet and not climb to the front of the machine, as they are bound to do if strong light comes through the door.—A. D. K.

#### Poultry Suggesticus for April

hatching, break them up at once and get them to laying again.

get them to laying again.

A good way to break up a broody hen is to put her in a light, airy copy with a wire or sixt bottom that you can hang up. This permits a free circulation of air, and as it blows up through the fluif it reduces the favor which is in their blood at this

This is the month to get out your

house, keep them clean, as the need all the sunlight they can these days.

Hens suffer from a damp hen house, so it is well to keep the floor covered

Be sure to keep plenty of fresh water before the hens. A great amount of water is used to form the

let other work crowd out the chicks.
Let the poultry have a share of the

and use muslin

and use muslin.

Eggs from hens that have made a
fair showing in laying this winter
will be more fertile than those that
did heavy laying.
Keep a flock of hens, a good cow
or two, prepare for a good garden
this year, and you won't have to
complain of the high cost of living.

among the best.

#### reproduced in colors and form the superb series of illustrations in this very unique Bible. These Wonderful Color Plates

This Bible is a high art production. The illustrations are exact copies of original drawings and paintings, which constitute a wonderful gallery of

paintings, which constitute a wonderful gallery or Scriptural art. To this breach of the work were called the greatest of Hying artists, and it is to

their intelligent conception of the work of por-traying Bible scenes that the peculiar excellence

The Famous Tissot Collection The famous Tissot collection of paintings is c

sidered by authorities everywhere as the most important contribution to Scriptural illustration. The choicest of these pictures have been faithfully

greatly enrich this beautiful edition of the book of hooks. Every picture is an eloquent sermon on the everlasting truth of Hosy Writ. Events that have been imperfectly comprehended become in-vested with the charm of living reality, and places that have seemed far off are made familiar. The Bible parrative is given, as never before, a present, living, human interest

#### Children Will Learn to Love It

Nothing will interest the oblid so quickly as a picture. Art speaks a universal language intelligible to young and old alike. Accurate pictures, intelligently conceived and artistically executed, appeal to the child mind no less than to the Bible

This beautiful illuminated Bible will be sent prepaid for only TWO NEW SUBSCRIBERS TO FARM AND DAIRY of which your paneous

CIRCULATION DEPARTMENT FARM AND DAIRY Peterboro, Ont



F you intend to use hens for hatching, set them in a dry place where the ventilation is good.

If you do not intend to use hens for

If you have windows in the

with litter.

egg.
Put your thinking cap on and don't

If you have not had the nerve to use the open front house during the winter, you had better begin now by removing the windows on the south

There never will be too many good oultrymen, but we can strive to be

#### Kansas Ration

Kansas Ration

Schaffel Peed: Ped in small quantities early in the morning as the birds leave the perches; and also two or three hours before the birds go to roost a quantity that will give the birds of the perches; and also two or three hours before the birds go to roost a quantity that will give be; corr. 900 be, inc. Wheat, 300 be; corr. and the received the popul of relate for energy two pounds of serats for early two pounds of serats feed. Corn meal, 60 lbs; wheat findlings, or shorts, 60 lbs; wheat bran, 30 lbs; lineage oil meal, 10 lbs; cut alfalfa, 10 lbs; asis, 11 b. Green Feed: At noon the hone are fed as much green. Feed, consisting of sprotted oats, roots and so forth, as they will eat up clean in 30 minutes. Fresh water, cystice abell, grit and charcoal are always before the birds.

#### GASOLINE ENGINES

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WHITE WYANDOTTES First class laying strain. Send \$1.00, get a cetting of 13 eggs, and have pullets to lay next winter. NORMAN POOLE, Perth, Ont.

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and CHAS. W'ATSON, Londesboro, Ont.

EGGS EGGS ... From English Pencilled, also Fawn and White Indian Enwier ducks. 31.25 per 13. White Wyandottes cnd 5 . White Leghorns, \$1.00 per 15. Satisfaction guaranteed. Ed. Fenner, B.R. No. 1, Carlarhue, Ont.

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Mitte Wyandottes

Hardy, farm resined, bred to lay
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sery 8.2.6.0, 100 enges 85.0.0. Excephalor sea, 5 cents per ogg. Babyhick, 30 cents are ogg. Babyhick, 30 cents are ogg. Particle,
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Pure Bred Bar 'ed Rock Eggs For Sale Spiendid Tishis' Pen. Thirteen for \$1.00. Five Pens show stock Strain, E. R. Thompson, Wells, Miles, etc. Entra veltas, \$2.00 \$5.00. H. TRESTAIN, Bothwell, Ont.



April 20, 1916.

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#### BABY CHICK FOOD

At all dealers FREE\_"Poultry Wrinkles," 64

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though it may cost a little more, is the least expensive roofing in the world.

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CANADIAN NORTHERN

#### Cow Testing: What the People Say

what people thing of Mr. Whicley's special charge, cow testing. From Lanark Co., Ont., comes this state-

ment:—
"We all knew in a general way that "We all knew in a general way that, some of our cows give much more milk than others, but I am quite sure that none of us realised the difference was anything like so large as it has proven to be. Our best ow gave, 7,160 pounds of milk and our porest. one and a half tons, which is easily

"As my cows get exactly the same feed in winter and the same pasture in summer, any one can see at once the greater importance of cow testing

the greater importance of cow testing to raise up the milk production without one cent of increase in the cost.

"Another point is we know mow just what our cows are doing for as; before, we only gave them credit for milk sold to the factory; our heat now paid us \$80, which is far in excess of what we ever expected her to make.

"Mulk odd to our calves, must be woat we ever expected her to make. "Milk fed to our calves must be just such as we get from our cows, so that we should be as much interested in the quality as in the quantity; we had no way of knowing the difference in quality till we tested each cow separately and found great differs

I find it very much more interesting dairying when keeping records, as well as being able to know which cow to get rid of. I wish there were more in this district keeping records as it is a good guide when you want to get new stock or young calves."—(From Cassburn, Ont.)

Wants More Of It.

"We have been weighing our milk now for three years and find it very beneficial. Please send more sheets nenerical. Please send more sheets for daily weights; we would not like to keep cows if we had to stop weigh-ing the milk."—(From Hollen, Ont.) "I never seem to miss the time apent

"I never seem to miss the time apend weighing daily, and in any case the benefits more than offset all the time spent."—(From Hollen, Ont.)
"I have been weighing now for one year and find that I have such poor cows in the berd that I am assamed to see the complete that I am assamed to see that I

to send in the figures. I promise you that the unmistakable eye-opener which I have received this year will

which i have received unit year win result in a much happier return next year."—(From Iona, Ont.) And another man near Stratford, Ont., who with a head of 10 cdws, in-ducting one farrow and three 2-yearold heifers, has an average of 9,333 pounds of milk, writes:

pounds of milk, writes:—
"I certainly feel well-pleased with
the idea of weighing she milk at every
milking. A person takes more interext in his daily work when he knows
just what his cows are doing every
day. I also believe we shoulk keep
an account of the feed they consume."

#### The Dairyman's Indicators

By G. L. Martin.

By G. L. Martin.

N order to put dally bring upon a business basis, over; farmer needs to use the milk was been and the record book marked to the business man has a league to calduction in his transaction. Breny data man needs to enter a separate account with each of the cows so that he may have an indicaty to dell him at the end of the year jiet how much feed each cow has consumed, the feed each cow has consumed the conducted of milk produced and the percentage it tests.

centage it tests.

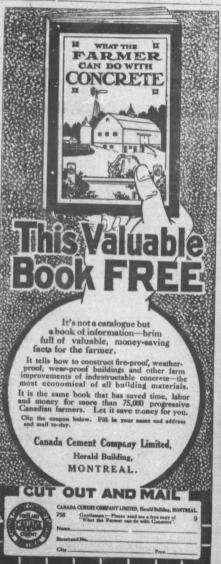
Too many farmers of the country are keeping the scrub cow, feeding and miking her twice each day, 14 times each week, 50 times each month

N one of his annual reports, C. F. the pleasure of her company, when a Whittey gives quotations from hetters he has received. They show that people thing of Mr. Whitely weighting deciding the milest and people thing of Mr. Whitely weighting deciding the milest and people the state of the company of the control of the company, which we can be carefully assume the care of the milest and people the company of the company of the company, when a control is a state of the company of th good carrymen squander 30 minutes can be seen a variety can't let y carboling with the scrub of tree stock sufficient to revoluce cow, when three minutes time with the scales, te-or and record book of ready cash every month in the would put the herd upon a paying year.

basis and money in their pockets. The keeping of records is a business trans-action and means the essential di-ference between knowing and guess-ing, pleasure and drudgery, profit and loss, success and failure.

(9)

The small farmer can keep a variety



# **EVERYTHING NEW** FRESH-PURE RELIABLE Ask your dealer or write BENNIE'S - TORONTO MONTREAL WINNIPES VANCOUVER

# roduction and

CANADA from her abundance can help supply the Empire's needs, and this must be a conforting theosph for those upon whom the heavy burden of directing the Empire's affairs has because the course before the Empire's affairs has because it was last year—they must produce abundantly in order to meet the demends that may be made, and I believe this to be especially true in regard to this cook, the world's supply of which must be particularly affected in the scook, the world's supply of which must be particularly affected in the scook, the world's supply of which must be particularly affected in bloods of the scook of the scook

MODERN war is made by resources, by money, by foodstuffs, as well as by mea and by munitions. While wer is our first business, it is the imperative duty of every man in Canada to produce all the control of the contro

## THE CALL OF EMPIRE COMES AGAIN IN 1916

TO CANADIAN FARMERS, DAIRYMEN, FRUIT GROWERS, GARDENERS

WHAT IS NEEDED? THESE IN PARTICULAR-

WHEAT, OATS, HAY, BEEF, PORK, BACON. CHEESE, EGGS, BUTTER, POULTRY,

CANNED FRUITS, FRUIT JAMS, SUGAR, HONEY, WOOL, FLAX FIBRE, BEANS, PRAS, DRIED VEGETABLES

We must feed ourselves, feed our soldiers, and help feed the Allies. The need is greater in 1916 than it was in 1915. The difficulties are greater, the task is heavier, the need is more urgent, the call to patriotism is louder—therefore be thrifty and produce to the limit.

"THE AGRICULTURAL WAR BOOK FOR 1916" is now in the press. To be had from The Publications Branch, Department of Agriculture, Ottows.

THE GOVERNMENT OF CANADA

THE DEPARTMENT OF AGRICULTURE

THE DEPARTMENT OF FINANCE

#### HORTICULTURE

How to Grow Raspberries By F. L. Gable, Fruit Inspector.

By F. L. Gable, Fruit Inspector.

ASPERIRIES are bester planted in the fail on well prepared and in the fail on well prepared and which has grown a pito of port. does or an expect of the proper of the property of the product of the product

The original sets should be planted about seven to nine inches in the row, with rows 18 to 20 inches apart, so that with rows 18 to 20 inches apart, so that cultivation can be carried on with two horses. The berries should be well cultivated during the summer, up to picking time and through picking time picking up until early tration after picking, up until early tration after picking, up until early after tha growth has counsel the fall, will also be beneficial. In the fall, after the growth has ceased, the ground should be plowed up toward the canes, leaving a light dead furrow in the centre. In the spring this is cultivated again and pulled back toward the centre, away from the row, with a reversible disk harrow.

To get the head results reachering the properties of the propert

with a reversible disk harrow. To get the best results, raspherries should be mulched yearly with nanure. This is done by piling manure at the ends of the rows during the winter ends of the rows during the winter time, and with the aid of a one-horse cart, distributing the manure in the row in the spring, spreading it amongst the canes as carefully as possible. In this way what is left of this manure in the fall is covered by the manure in the fall is covered by the good that is plowed up to the canes, furrow that is plowed up to the canes, and thus way after year it becomes furrow that is plowed up to the cance, and thus year after year it becomes well incorporated in the soil and pro-duces good results, not only furnish-ing fertilizer, but assisting very including the holding moduture and avoiding the disastrous results that occur during the hot, dry season of raspberry harvesting. Canas should so the out back dur-face.

Canes should not be out back dur-Cames should not be cut back during tels growing season; leave my cames in the condition in which they grow, until springs time. They are then cut back and the deed came that they are then cut back and the deed came that they are they ar worst muscus we have had to contend with during the last few years is the snowy tree cricket that deposits its eggs in the growing cane and kills them back from the tip. The only remedy for this is to watch closely and cut out the affected canes.

Pruning Trees for Production M. B. Davis, B.S.A., Experimental Farm, Ottawa,

WE prune primarily to obtain bet-ter fruit, and in so far as our pruning practices help along that one line, just so far is our pruning a that one sine, just so far is our pruning a success We do not, or at least should not, prune to obtain a beautiful or sightly tree. A tree possessing beauty alone does not add dollars to our pockets, so that look at it as you may, we prune only to obtain better frest!

The different types of trees that we grow may be roughly divided into three classes. One is the pyramidal three chasses. One is the pyramidal form, another is the open centre, and the third is a combination of the two. The first or pyramidal form, which consists of a central leader, with branches radiating off from it, gives too large and too high a tree for our conditions. It shuts out too much sunlight, thus making the production



of clean, well-difficult task th insect pests naturally thriv directing the sanitation, and cannot be call tree. The open sessing admira leader type, so the two is mor bination type c year until five arranged in a can be selected work of the tre Having decide tree shall take,

follow the prun first year, or th out, it will be n all branches in an opportunity make our trees and willowy, years of a tree wood. This add this first cutting to form a good, head, we must growth, and pru four or five yea towards that en

If the tree is leader type, it and five other be selected, as p other branches five selected bri considerable weaker ones the branches will 1 laterals on them, move these at tl



Lakeview he production of 3 ighest producing by stablished a new leanths after calving



well-pruned tree in the orchard of Jas. E. Johnson, of Norfolk Co.

Jan. E. Johnson, of Norfolk Co.
of clean, well-colored fruit a more
difficult task than it should be. Where
macet peats
maturally through the first factor in
directing the shape first factor in
directing the shape first factor in
sanitation, and the central leader type cannot be called a smittary type of
tree. The open centre tree while possessing admirable qualities
cannot be called a smittary type of
tree. The open centre tree while possessing admirable qualities
consists in allowing the
central leader to grow for the first
year until five or six good branches,
arranged in a whorl and well spaced,
can be selected to form the Iramework of the tree.
Having decided on the form our

can be selected to form the framework of the tree.

Having decided on the form our tree shall take, we are now ready to follow the pruning year by year. The first year, or the year the tree is set out, it will be necessary to head back all branches in order to give the roots an opportunity to get a hold and to make our trees stocky instead of long and willows. During the first two years of a tree's growth, prune for wood. This adds to the importance of this first cutting back. To enable us to form a good, strong, well-balanced to form a good, strong, well-balanced to form a good, strong, well-balanced to come a good, strong, well-balanced for the principle of the property of th

be selected, as previously stated. All other branches are removed, and the five selected branches are cut back a considerable distance, cutting the weaker ones the least. As these main branches will probably have some laterals on them, it is advisable to re-move these at this time. Which Is Your Way?

Two men were leaning over the pasture bars. Their conversation is related in the Western Farmer of Spokane, Washington, as

follows:
"Yes, sir, that coit is for sale, but he belongs to my son in the field yender You'll have to bargain with him," said the farmer, motioning to the boy. "He'll be here presently and you can talk to him."
"That boy!" ejaculated the stranger."

you can talk to mm.

"That boy." elaculated the stranger.

"Yes, George is seventeen, and a smarter boy never was raised on any farm—If I do say it. You ought to bear him in debate. He can hold his bear him in debate. He can hold his control of the sale money goes into the bank in the form the sale money goes in the bank in the form the sale money goes in the sale money goes in the sale money goes in the sale man is looking at your two-year-old.

The bargain was soon concluded, but not before the buyer had learned that the seventeen-year-old boy was a lecen judge of horse fests and knew worth of his colt.

Two men were leaning over the pasture bars.

Two men were leaning over the pusture bars.

Yes, sir, them steers are as good as ever was raised in this town. That boy over there calls 'em his, and has fussed with 'em ever since they were calves. Hey? Oh, that makes no difference when it comes to selling. They were fed from my mow, and I reckon whe cash goes into my pocket. Boys are ungrateful nowadays. He keeps are ungrateful nowadays. He had he

Which boy made a successful, con-tented farmer, and why?

#### Rural Leadership Course at O.A.C.

O.A.C.

The Ontario Agricultural College has made arrangements for its second annual Summer School for Turning College annual Summer School to discuss the country home, school of discuss the country home, school and church, and their relationship to the community life. Along with these subjects will be given a few outline lectures on strictly agricultural topics, with the idea of bringing all rural leaders, asch as clergying all rural leaders, asch as clergying all rural leaders, and so forth, more closely in toright of the farmer. Further information, may be had by applying to Dr. G. C. Creeiman, O. A. College, Guelph.



Lakeview Rattler, the New Canadian Champion 7-Day Cow.

the production of 37.54 lbs. butter from 124 lbs. milk in seven days makes her ti
shoat producing butter cow of any sec code in Canada. In December last is
calculated a new ions-distance record for Code in Canada. In December last is
calculated a new ions-distance record for bright of the 20-day division, eight
conche after calving. Lakeview Rattler was bred and is owned by Lakeview Fart
Bronte, Ont.

Made in Canada



Dust Costs Money

Dusty roads are expensive, for the presence of dust means that costly road material is being cast away to the four winds of heaven. Sooner or later it must be replaced at great expense.

The taxpayer foots these bills. Ordinary waterbound macadam is not sufficiently bonded to reis not sufficiently bonded to re-sist modern traffic. A stronger binder is needed. That is why many Canadian towns are turnmany Canadian towns are turn-ing to Tarvia—a coal tar pre-paration of great adhesive power, which is used to cement' the stone together.

Under heavy loads a tarviated road is somewhat elastic-not brittle-and traffic wears it smoother. The Tarvia also has the effect of making the road surface waterproof and pre-venting raveling by rain torrente

The addition of Tarvia to the macadam costs so little that it is more than balanced by

the saving in maintenance exthe saving in maintenance expense. The road, instead of being torn up by traffic and blown away by the winds, stays blown away by the winds, stays where it is put, and the annual repair bill is reduced materially. Tarvia is made in three grades: Tarvia X' for new or rebuilt roads and pavements, "Tarvia-X' A' for surface application, and "Tarvia-B" for dust prevention and road preservation.

If you want better roads and lower taxes, our Special Service Department can greatly assist you. Write to nearest office reyou. Write to nearest office re-garding road conditions or prob-lems in your vicinity and the matter will have the prompt attention of experienced engineers. This service is free.

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## Farm Improvement Number

MAY 4th

Remember, only half of our pages are right hand ones. Make sure of being on one by reserving your space NOW.

ADV. DEPT., FARM AND DAIRY - PETERBORO, Ontario

success of other folks.
Not long ago E. L. Vincent, a United Not long ago R. L. Vincont, a United States journalist and farmer, hitched up alongsides a follow-passenger on an express train and was told in a few words the story of that man's life. It was an inapiring story. The con-ditions overcome were the same as nine out of ten framers are face to the control of the story of the story

The Story.

"I was like a good many men when I was in the twenties. I had worked hard and I thought it would be a smart thing to go down to Washington and hold a government position for a few years. So I got a chance to be appointed to a place in the in-terior department and went. I soon married and started a family. But married and started a family. But the confinement began to tell on me. I had always been used to the free air of the country and I came near dying before I waked up to the fact that it was no place for me down there. So I did a queer thing, I sup-posa. I resigned and took my way back to the old northland. They say: a man rarely does tout. The pay is as sure with the government and the so sure with the government and the a man rarely does that. The pay is so sure with the government and the work not heavy that most men stick to it to the end of their days. I never to it to the end of their days. I never did a botter thing, however, than when I packed up and went away from Washinston. Is fact, I am sure I would have died soon if I had not quit when I did.

"We bought' a little place of 55 acres nine miles from the railroad and began to 'farm it.' At first we had

and began to 'farm it.' At first we had only three cows, and they were just the same kind of stock the rest of the folks around there had—very ordinary stock, and surely not such as would be likely to cut any great figure in the world dairy history. Nobody then had any better cows than we did. If I had wanted to buy thoroughbred stock I would not have known where to look for it, any more than the man to stook for it, any more than the man
in the moon. No one had any such
stock in all the country round about;
and that was less than 25 years ago,
My! What a change these few years
have brought!"

My triend looked out of the car windown antiquits and secured to be best

dow a minute and seemed to be letting his mind run back over the years. Then he took up the thread of his story

"Well, we began right, as I look at it now, by fixing up the barn and get-ting ready for the better and bigger herd. We moved a little old barn over out of the middle of the lot where it had stood probably for 60 years, raised it up, and added to its length. It was then 26 by 50 feet in size. Our ambitions were to keep about 10 cows, and we soon had them, but no thoroughbreds yet. But we had made a step in advance. Instead of taking a step in advance. Instead of tabling up with the leavings of the neighbors, we bought the very best cows we could, paying what was then considered a pretty big price. Then, too, we began to be more carried as to the kind of a bull but we used. We had taken up with anything in the shape of a bull, but now we wanted something better. Thut gave us a 1840e better line of scrub stock, that was all.

#### A Serious Setback.

"But when we got the barn straightened up, we set out to get still better stock. When I began to ask myself where I would go to find that stock, I found that it was not such an easy I found that It was not such an easy matter. I had quite a bunt, but I found what I wanted and bought it. That was in the form of a promising looking registered bull calf. We paid a good price for him as things were then, \$10. Before long we learned that he was not a breeder. We never We never got a calf from him!

"They talk about discouragi things in dairying. I know all about them; but I know, too, that failures are a good many times just what a man needs to make him hustle. It was so with me. I wanted a good bull then the worst I ever did in all my life, and I was not satisfied till we had one.

"While we were trying to get our bearings again, I had a chance to buy a nice little heifer calf of good, thor-oughbred stock, and I went away over oughbred stock, and I went away over in the east part of the town, some five miles, to get M. I thought she had the miles, to get M. I thought she had the that this was so. She was, and is to-day, the best cow we ever owned. All her calves are good, to, the soul; fault I have to find is that so many of

#### A Good Start at Last.

his mind run back over the years. Then he took up the thread of his story again.

"I kept looking for a ball and at last we got one. This was a Gentracy. We had tried some other breeds and they did not quite mean to come we were getting along. I think now it was the resports we got from the kinds of atooks, you understand. Other creamery. Our test was tersibly low.

COMBINING BARLEY AND OATS FOR HIGHEST YIELDS PER AGRE.

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Varieties and Com- binations Oats	Sen	d per cre. Pounds.	1910	1911	ons o	f Str 1914	Viel aw. 1915	d per	Acre 1910	Pou 1911	inda :	of Gr	aln.	Ave
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Oats and Barley	11/6)	123	1.01	1.29	1,63	.65	1.06	1.41	2006	1594	1700	1488	1980	1772





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What is your object in farming!

Is it to work out fine-spun theories
or to make your farm a business
success? If it is to make it a
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some farm books, but be sure that
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MENT is the FIRST book you
secure.

DO YOU WANT TO KNOW how to choose a farm, what size of a farm, is no farm, what size of a farm, is no farm, is now to keep farm accompilate, how to equip and lay out a farm, is now to keep farm and are noting it? Then send us two new subscribers to Farm and will be send to such as the control of the

they would with the Guernseys. But we liked the Guernseys, and do now.

Then we were on the way to see our dreams shalled. We added about 180 acres to the farm, put more length on the big beat farm, but more length on the big beat farm, but length of the wider and longer and put a scaling it wider and longer and put a scaling it wider and longer and put a scaling in the wide, bead of stock, not all registered, but some fail breds and a number of good grades. Last season our test at the creamery was the best of anybody's that patronized the institution.

"But we are not satisfied yet. There are better things than any we have reached, and we are going after them. We want some better cows. We want a sire to head the herd that is all wool and a yard wide, and we are going to have him."

I have visited this man's farm and know that all he told me that day is true. And he was overly modest about she advance he has made since he came on the farm. The story was told in no boasting way, but in the most quiet, everyday sort of manner, and yet, with the light of a great purpose and a big aspiration in his eye. That is one of the best things about doing good things in dairying, as well as in any other kind of business; it makes a man want to do still greater things.

#### Auto Running Legislation

DLBASE give information re the runing of substantial and said trucks. For the index the run run in the could a person quality for running the could a person quality for running the distinction between the qualthere any distinction between the qualthere any distinction between the qualfoxions for city and private country use—3. T. Peterboro Co. Ont.

Subject to Section Thirteen of the Motor Yehicles Act, which provides that no person under the age of 18 shall drive a motor vehicle, the owner of a motor vehicle may operate his own car, providing, of course, that the registration fee is paid and the registration fee is paid and the property exposed, etc. The equilon provide for m distinctions in sepect of your caquiries between the number of your caputities he tween the number of your caputities have the number of your caputities here.

It is further provided that no person shall for hire, pay or gain, drive a motor vehicle on a highway unless to is received a motor vehicle on a highway unless to is received anyone to do drive a motor vehicle who is not so iliceaed. This lives may be obtained from the Department of the Provincial Secretary at Torono on fling a certificate in that office signed by two members of the Ontario Motor Incapie, applicant for the Juppose, residing in the municipality in which he applicant for the Ileense resides, and also yield the form of the Motor of the Motor of the Juppose, residing in the municipality stating that they have examined the applicant and that have been supposed, having regard to his character, physical fitness, ability to drive and knowledge of the rules of the second and knowledge of the rules of

If there are not two such appointed members of the Ontario Motor League residing in the municipality in which you live a certificate may be signed by two appointed members in the municipality nearest to that in which you reside. If you are in doubt as to whom these persons are a letter inquiring to the Provincial Secretary, Toronto, will bring you the necessary information. No other examination or special study is re-

There are no distinctions between the reculations for city and country the part of the course, special regulative are, of course, special regulative and the speed rates cars in cities and the speed rates for country rotation of the Provincial Secretary of a copy of the Act governing these matters.

## Good-by, Guess Work

THE New Sharples "Suction-Feed" is the only cream separator which eliminates guess work from cream production.

All other separators have to be turned at exactly the speed indicated on the crank or they will lose from 7 to 13 pounds of butterfat per cow per year. The Purdue Experiment Station and other scientific investigators have proven these figures (see Bulletin No. 116, Vol. 13.)

This "guess" speed is used by 19 operators out of 20, because it is impossible to turn the crank at exactly the right speed.—It is much easier to turn it slower—and, whenever you do, you lose cream. Even a speed indicator will help but very little, as you won't and can't watch it every minute.

So we say to you dairymen: Quit guessing about your separator speed and your separator profits. Use

# SHARPLES SUCTION-FEED

Separator and know that you get all the cream all the time.

Whether you turn faster or slower, the bowl of the Suction-Feed drinks in just the right quantity of milk. The feature is entirely automatic; if you are tired, you turn slower (which is easier) and, if in a hurry, you turn faster and finish so much sooner. No matter how you turn, the New Sharples always skims clean.

The Sharplescream is always of even thickness, whether you turn fast or slow. The Supply can is but knee high so you can fill it without any back breaking effort. The three-piece Sharples bowl is lighter and simpler than any other—no

discs to wash.
All these money-saving and trouble-preventing features are described in a handsome catalogue; "Velvet" for Dairy-men. Send for a copy, now, while you think of it. Address Dept. 77.



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We guarantee that every solvenizer in this issue is reliable. We are able to de this because the advertising columns of Farm and Daily are as carefully edited as the reading columns, and decause to stretch tiers. Should any advertise need addishensely with you as one of our paid-in-advance advertiers, such transaction accurs within one ment from date of this base, that it is expected to as within a veet stated, it is a condition of this contract that is writing a divertiser you state. "It saw your advertise." Roques shall not ply their trade at the expense of the contract that is writing to advertise the contract that is writing to advertise the contract that is writing to advertise the contract that is writing that the contract that is writing the contract that is writing the contract that is writing that the contract that is not that the contract that is not that the contract that is not that the contract that

The Rural Publishing Company, Ltd. PETERBORO, ONT.

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

#### The Horse-Hoed Garden

ARDENS are capable of classification into two main divisions, hand-hoed and horse hoed. The former variety grace thousands of city back yards. They afford pleasant diversion to office and factory employees and load city tables in humble homes with good things that would not otherwise be there.

But there is little room for the hand-hoed garden on the farm. Gardening to the farmer is not a diversion, and the garden should be planned so that the horse can do the work. This means a garden of considerable size and laid out in long rows. In it will be found as wide a variety of vegetables as it is possible to collect from a seed catalogue. There will also be small and bush f. aits and, if the value of the product were kept track of, the total sum would be wonderfully satisfactory. A city friend of ours with a garden forty-five by fifty feet kept careful account of the value of its products last year, and the total was between forty and fifty dollars. We with our big, healthy country appetites should find the garden proportionately more valuable. Why not make 1916 a record season in the garden line? There is lots of room for such improvement in farm gardens. We ourselves have not noticed that good gardens were so common as to become m

The Regulation of Fraternal Insurance

HE request of some twenty to thirty fraternal societies to have a bill put through the Ontario Legislature, putting fraternal insurance on an actuarial basis and submitting it to Government inspec tion is a reassuring indication that some of the societies at least are anxious to prevent a recurrence of the difficulties that some such societies have encountered during the last few years. Farmers will welcome any measure by

which the business of life insurance, which so intimately affects so many of them, will be put on the soundest possible business footing. Government regulation has any place in human affairs, it should be in connection with institutions by which men seek to provide for the mem bers of their families, in case they should be taken away from them.

Many of our older farmers, men who have done so much in the opening up and development of Canada, are now suffering from the effects of the unbusinesslike methods of some of our fraternal insurance societies. Only recently a case came to our notice of a farmer who had taken out a thousand dollars of insurance some twenty-five years ago in one of these societies. His payments for some years amounted to sixteen dollars per annum. By the time he had reached 65 years of age, however, it was becoming apparent that all was not well with the company to which he had entrusted so much of his savings. The rates were increased until they amounted to thirty-six dollars a year. He is now an old man, and the payment of such an annual amount is no longer possible, with the result that he has had to comply with a provision by which he can draw out what he has paid in, so that instead of a thousand dollars, which he confidently expected for so many years to leave to his dependents, he will only have some three or four hundred.

Another case of which we have been informed is that of a man and wife, who each insured in a certain company in the other's favor. They owned their little home, and felt that so long as they were spared to each other they would be able, by frugal living, to make ends meet. They realized, however, that as soon as the home was broken up by the death of one, it would not be so easy for the other to get along. By taking out the insurance they felt they had provided for the declining years of the one of them which was spared the longest. For over 30 years they kept their premiums paid up, then the inevitable raise in the rates was made, and they found it absolutely impossible to continue to pay them. The old man has now gone to his reward, and his aged wife has been left dependent on the charity of the neighborhood. Incidents such as these make the actions of some of our fraternal insurance societies look like flagrant breaches of confidence

To prevent the repetition of such occurrences. which amount to little less than a tragedy in the lives of those affected, the whole business of life insurance should be placed upon the soundest possible basis. Recent experience has shown that this important work cannot be left altogether in the hands of the officials of insurance companies. The strictest Government regulations should be enforced, and it should be made impossible for any company to attract members by offering low rates of insurance, when on the evidence of our best insurance experts such rates cannot be maintained. Years later, when such members become old, and their earning powers have decreased, they would not then have to face the payment of increased premiums or be forced to drop their insurance. Nothing is settled until it is settled right, and the agitation for the putting of all insurance business on an actuary basis will keep on until that result is accomplished.

Have you ordered your farm and garden seeds yet? Get in before the rush.

Avoid constipation in cows at calving time, Plenty of roots and elimination of heating grains from the ration will keep the cow in excellent condition.

The increased tariff on apples, it is said, will increase the price of Ontario's apples. Just how a protected home market can increase the price of a farm product of which there is a large, exportable surplus, passes our comprehension.

Educational Features of Sale

ERY auction sale of pure bred dairy stock is a valuable dairy demonstration. As the animals are led out one by one, as their merits and breeding are announced and subjected to the criticism of the ringside, and as the bid ders contend with one another for the possession of the animals, the novice in breeding has a splendid opportunity to become acquainted with the technicalities of the business. By being observant he has an opportunity for training his eye and becoming a better judge. By referring to his catalogue as the animals are sold, he has an opportunity to become familiar with the records, the families and the outstanding individuals of the breed. In watching the bidding and observing the prices that are put on the animals. he becomes familiar with the values of such animals as estimated by those best qualified to judge, and finally by mixing with the breeders, he is sure to absorb some of the enthusiasm that adds so much zest to the work of the dairyman and breeder

At this time of the year, when sales of pure bred stock are being held every week, the opportunity is brought to hundreds of our readers to profit thereby. Such an opportunity should not be wasted, especially by the younger farmers. To the observant one, an auction sale of good stock is in reality a short course in which enough instruction is condensed into one afternoon's work to materially assist any young farmer in becoming more familiar with the best that live stock breeding has to offer.

Progressive Manitoba

HERE is an old proverb which says that "a new broom sweeps clean," and which can be very properly applied to Manitoba's new Legislature. After the rather slovenly house keeping of the late Government, there was considerable cleaning up to be done, but the new Government, backed by the earnest desire of the people of the Province for a large amount of progressive legislation, went to work with a will with the result that Manitoba can now be said to have again restored her house to order. The recent session, lasting from January 6 to March 10, was characterized by the carrying out of a record program of progressive legislation. The Grain Growers' Guide, Winnipeg, sums the work of the session up as follows:

"The women were enfranchised. The Macdonald Temperance Act was passed and endorsed at the referendum on March 13. Direct legislation was incorporated into the statutes. A Compulsory Education Act became law and the bilingual clauses were expunged from the School The Caldwell amendments were repealed. Much labor legislation was enacted, including a new Workmen's Compensation Act, new regulations governing employment in shops and factories and a Fair Wage Act. Authority was given to the Government to sell cattle on easy terms to needy settlers, and a Mother's Pension Act received the royal assent."

The passing of such an amount of progressive legislation in one session shows what rapid strides can be made when the political atmosphere is cleared, and instead of throwing dust in the electors' eyes, the legislators get down to the business of enacting the will of the people. Men of all party affiliations now agree that only a year ago Manitoba was one of the least progressive Provinces. At one bound, however, she has taken a foremost place among the Provinces in this regard.

Production and thrift—these are the factors that have bought and paid for thousands of Canadian farm homes. There is a call for even greater effort in this year of war, and Canadian farmers will do their part.

United Farme Gr

April 20, 1916

O NE of the ings the difference in Limited, have have organized, of the Company and 12. The fine sented showed t months of Febru considerably in e \$37,020 for March to \$55,00 last year. Owing later in opening the sales in Janu not as large as However, the tot three months of t \$107,143, as again the same period an increase for \$19,033. In this are more nearly than they were a as the feed shorts a great demand year the demand comparatively ligh Another report

which cannot be z ments had been co to the Grain Grow of Winnipeg, of a supples here in ( amount to at leas sibly twice that 4 alone. This coope East and the Wes one of the great wth the developm

The drectors rec a special committee sident John Pritcha Beck, South Cayugs of Farm and Dairy appointed by the last annual meetin to devise methods work of the compa its usefulness. This in a report which tically in full. The gaged a business consultation with t ager and accountant which will ensure if fice records being i hereafter that will of in use in the most a houses of the count enable the director times practically ev company's business the sales in each conformation has been tofore, but hereafter able in a more conv

It was decided h matters affecting the company will be de executive committee approval of the bout that the details out of these policies the management. The mittee of the compar President Pritchard W. C. Gurney of Pari Barrie, managing dire and Secretary J. J. M

and secretary J. J. M. Replies received by mittee from some 85 the province, showed were well pleased with the plant received T. Some complaints we repard to a few lines are given attention by The directors decide.

#### In Union There is Strength

United Farmers' Company Show Great Gains

Oreat Gains

NE of the most successful meetings the directors of the United Farmers' Cooperative Company, Limited, have held since the company was organized, was held in the office of the Company in Toronto, April 11 months of the Company in Toronto, April 11 months of Pebruary in a sales for the company in the control of the Company in Toronto, April 11 months of Pebruary and the company of t three months of this year amounted to \$107,143, as against total sales during the same period last year of \$88,110, an increase for the three months of \$19,033. In this connection it was pointed out that the sales this year pointed out that the sales this year are more nearly normal in character than they were a year ago, inasmuch as the feed shortage last year created a great demand for feed, while this year the demand for feed has been

year the demand for feed has been comparatively light.

Another report that was received with gread satisfaction, the details of which cannot be made public at present, was to the effect that arrangements had been completed for the sale to the Grain Growers' Grain Company of Winnipeg, of a certain line of farm aspoids here in Ondario. that will apply the company of the company o

with the development of this movement.

The drectors received the report of a special committee composed of President John Pritchard, of Gorrie; S. A. Beck, South Cayura, and H. B. Cowan, of Farm and Dairy, which had been the property of the company of the comp the sales in each department. This information has been available here-tofore, but hereafter it will be available here-

land to the control of the control o

and Secretary J. J. Morrison.

Replies received by the special committee from some 35 locals throughout the province, showed that the locals were well pleased with the service they had received from the central. Some complaints were registered in regard to a few lines. These are below the service of the s

pany should affiliate with the Cana-dian Council of Agriculture and thus be kept in close touch with the work of the farmers' organizations in West-

on keep in close tomen with the work of the farmers' organizations in Westcen Canada.

As it was felt that a comprehensive 
policy should be adopted defining more 
clearly the relationship of the United 
Farmers' Company with the United 
Farmers' Company with the United 
Farmers' Contrain and outlining a 
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reversely the work being done by the 
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Stock was allotted to 25 farmers' or-ganisations and to 36 individuals, thus showing the practical interest being showing the practical interest being taken in the movement by farmers and farmers organizations throughout On-tario. The directors present included President John Pritchard, Vice-Presi-dent W. C. Gurney, Measurs. S. A. Beck, South Cayuga: E. C. Drury, B. C. Tucker, Harold; L. H. Schnurr, Shal-low Lake; Geo. Carlaw, Warkworth; Manager Anson Grob and Socretary J. Morrison.

Morrison.

A meeding of the directors of the United Farmers of Ontario is to be held in Toronto on Thursday and Friday, April 20 and 21, when matters relating to that organization will be discussed at length.

#### Farmers to Build Terminal Elevator

Elevator

A DEAL has just been closed for a waterfront site at Port Arthur, Ont., on which the Saskatchewan Coopparative Elevator Cooppary will build a terminal elevator. The graunt will be of 2,500,000-bushed for the site of the company of the terminal elevator. The graunt will be of 2,500,000-bushed will be competed in time for the 1917 crop. The CNL, and the C.P.R. The Port of the company provides for the erection of about 30 interior clother in the company provides for the erection of about 30 interior clother in the province, this being the large water water of the company can company provides for the erection of about 30 interior clother in the province, this being the large water water of the province, this being the large water which to carry on the work. This program fails very far short of meeting the requests for interior elevators by the coopperating farmers, but under your company for the cooperating farmers, but under the should undertake.

#### The Testing of Dairy Products

The Jesung of Lairy Products

This price of success is attention,
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Clean Skimming Easy Turning Easy Washing Small Repair Cost Best Cream Quality World's Highest Awards



## DE LAVAL Stands On Its Record

OR nearly forty years the De Luval Cream Separator has led in the cream separator field. It was the pioneer in 1878. It had a long start and has always held it lead. It has always led in every step of cream separator development and popularity, and more De Lavals are in use today than all other makes combined.

It has always been recognized as the closest skimming cream sep-arator. That's the main reason why 98% of the world's creameries use it to the exclusion of all others.

Because of its cleaner skimming, ease of operation and wonderful durability, every De Laval user is a "booster" and the better its work is known in a neighborhood the more popular it becomes.

is known in a neighborhood the more popular it becomes.

The better quality of cream it produces is attested by the fact that De Laval produced cram and butter have scored highest at every annual context of the National Buttermakers' Association for twenty-four years and in every great representative context for over thirty years. Last but not least, the De Laval was awarded the Grand Prize at the San Francisco Exposition in 1915 as at every other great exposition since its invention.

exposition since its invention.

The creamerymen's choice can't be far wrong. The wordt's greatest dairymen and mechanical experts of the straight of the stra

Let the De Laval start saving cream for you right now. See the accarest De Laval agent at once, or if you do not know him write us direct for any desired information.



DE LAVAL DAIRY SUPPLY CO., Ltd. MONTREAL

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(16)

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Travel Tho

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At this glad I think we forget

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choses for us to do.
"I, the servant, am a soever my Lord the point."—I. H. N.

One time he and

own lives.

An East

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TICTORIES that are easy are cheap. Those only are worth having which come as a result of hard fighting. Beecher

#### God's Country and the Woman

(Continued from last week.)

N those few memeats she had taken her place in his life. She stood before him like a goddess, tall and slender and unafraid, her head a goldbrown aureole, her face filled with a purity, a beauty, and a strength that made him look at her speechless, waiting for the sound of her voice. In her look there was neither boldness her look there was neither somess nor suspicion. Her eyes were clear, deep pools of velvety blue that defied him to lie to her. He felt that under those eyes he could have knelt down upon the sand and emptied his soul its secrets for their inspection

It is not very strange that I should "It is not very strange that I snould be here," she said at last. "I have always liyed here. It is my home."
"Yes, I believe that," breathed Philip. "It is the last thing in the world that one would believe—but I

Something-1 don't do; I believe it. know what-told me that you belonged to this world as you stood there beside the rock. But I don't understand. A thousand miles from a city—and you! It's unreal. It's almost like the dreams I've been dreaming during the past eighteen months, and the visions 've seen during that long, maddening night up on the coast, when for five months we didn'see a grow of the sun. But—you under and—it's hard to comprehend."

From her he glanced swiftly over the rocks of the coulee, as if expecting to see some sign of the home she had spoken of, or at least of some other human presence. stood his questioning look She under-

"I am alone," she said.
The quality of her voice startled him more than her words. There was a deeper, darker glow in her eyes as watched their effect upon him. She swept out a gleaming white arm, still moist with the water of the pool, taking in the wide, autumni-tinted spaces about them.

"I am alone," she repeated, still "I am alone, she repeated, sake keeping her eyes on his face. "En-tirely sione. That is why you startled me—why I was afraid. This is my hiding-place, and I thought-

He saw that she had spoken words that she would have recalled. She hesitated. Her lips trembled. In that moment of suspense a little grey or mine dislodged a stone from the room ridge above them, and at the sound of it as it struck behind her the girl gave a start, and a quick flash of the old fear leaped for an instant into her And now Philip beheld some thing in her which he had been too wildered and wonder-struck to ob-serve before. Her first terror had terror had been so scute that he had failed to so what remained after her fright had passed. But it was clear to him now, and the look that came into his own face told her that he had made the discovery

The beauty of her face, her eyes, her hair—the wonder of her presence six In an instant Philip was at her side.
hundred miles from civilization—had In his rough, storm-beaten hand he

held him spellbound. He had seen nerd aim spersound. He had seen only the deep lustre and the wonder ful blue of her eyes. Now he saw that those eyes, exquisite in their loveliness, were haunted by something which she was struggling to fight back a questing, hunted look that burned there steadily, and of which he was not the cause. A deep-seated grief, a terror far back, shone through the terror far back, snone through the forced calmness with which she was speaking to him. He knew that she was fighting with herself, that the nervously twitching fingers at her

caught the white fingers that trembled at her breast. And there was some-thing about him now that made her completely unafraid.

"Why?" he asked. "Listen, and I will tell you. Four years ago I came up into this country from down there -the world they call Civilization. I came up with every ideal and every dream I ever had broken and crushed And up here I found God's Country. I found new ideals and new dreams. I am going back with them. But they never be broken as the others were because now-I have found something that will make them live and that something is you! Don't let my words startle you. I mean them to be as pure as the sun that shines over our heads. If I leave you now if I never see you again—you will have filled this wonderful world for And if I could do something to prove this—to make you happier—why, I'd thank God for having sent e ashore to cook a mess of prunes." He released her hand, and stepped

from her "That is why you should tell me,"

A swift change had come into her yes and face. She was breathing eyes and face. She was breathing quickly. He saw the sudden throbbing of her throat. A flush of color had mounted into her cheeks. Her lips were parted, her eyes shone like stars.

'You would do a great deal for me?" she questioned breathlessly. -and like-a man?"

beautiful phantasm of the red and gold world which again lay quiet and life-less about him, Philip could scarcely convince himself as he made his wa back to the canoe and the fire. The discovery of this girl, buried six hundred miles in a wilderness that wa almost a terra incognita to the white man, was sufficient to bewilder him And now, as he kicked the burning embers from under the pails, an looked at his watch to time himse did he begin to realize that he he not sensed a hundredth part of the miracle of it.

Now that he was alone, quest after question leapt unanswe through his mind, and every vein his body throbbed with strange citement. Not for an instant did doubt what she had said. This w -the forests about him, the lake And yet, struggling vainly for a set tion of the mystery, he told him in the next breath that this could be possible. Her voice had revea nothing of the wilderness except nothing of the winderheas except in its sweetness. Not a break had mark ed the purity of her theech. She had risen before him like the queen of some wonderful kingdom, and not like a forest girl. And in her face he seen the soul of one who had loo upon the world as the world outside of its forest walls. Y believed her. This was her Her hair, her eyes, the flower littlesomeness of her beautiful body flowerlike and something more, something he could not see but which he feel in her presence, told him that this was so. This wonder-world about him was her home. But why-how

was her nome. But why—how?

He seated himself on a rock, holding the open watch in his hand. Of one thing he was sure. She was oppressed by a strange fear. It was not the fear of being alone, of being lost, of some happen-chance peril the she might fancy was threatening her was a deeper, bigger thing than not wholly, but enough to make him know—that this fear was a man. He felt at this thought a little thrill of joy, of undefineshe exultation. He sprang from the rock and went down to the shore of the lake, scanning its surface with eager, challenging eyes. In these moments he forgot that civilization was waiting for him, that for eighteen months he had been struggling between life and death at the aked and barbarous end of earth. All at once, in the space of a few minutes, his world had shrunken until it held but two things for him the autumn-tinted forests, and the Beyond these he thought of nothing except the minutes that were

dragging like thirty weights of lead As the hand of his watch market As the man of his water marker of the twenty-fifth of the prescribed thirty he turned his steps in the direction of the pool. He half expected that she would be there when he came over the ridge of rock. Gut she had not returned. He looked up the coulee, and then at the firm white sand close to the water. The prints of her feet were there narrow imprints of a heeled shoe. Unconsciously he smiled, for no other reason than that each surprise he e-countered was a new delight to him. A forest girl as he had known them would have worn moccasing hundred miles from civilization. moccasins-siz

As he was about to leap across the As he was about to reap an arrow neck of the pool he noticed a white object almost buried in the dry and, and picked it up. It was a white object almost buried in the dry sand, and picked it up. It was a handkerchief; and this, too, was a surprise. He had not particularly no tiond her dress, except that it was soft and elleging thus. The handsechief he looked at more closely. It was fine lines with a border of less, was fine lines with a border of less, it is the palm of his band. From it (Continued on page 19.)

The Message of Easter

THERE is nothing quite so delightful as the spirit of Springtime. It is the resurrection of hope, of life. All creation rejoices in the glad new morning when Nature, after her long sleep, awakes and decks herself with her most entrancing robes.

and decks herself with her most entrancing robes. "Avake, thou that sleepest!" The slumbering seeds which have been held in Winter's grip are not the only things that hear this been held in Winter's grip are not the only things that hear this mighty resurrection call. We humans hear it, feel its inspiration. It stirs us to our depths. A new life pulsates in our veins, thrills our stry being. There is a quickening of our vitality, a resurrection of our ideals, a moral re-birth. Our hopes, our prospects, are renewed, reanimated. We feel the warming presence of new life, new cheer, of reanimated. We feel the warming presence of new life, new cheer, of heart in the provided of the control of the provided warming presence of the provided warming present the provided

breast told more than her lips had confessed. He stepped nearer to her and held out a hand, and when he spoke his voice was vibrant with the thing that made men respect him and en have faith in him.

Tell me-what you started to say," entreated quietly. "This is your hiding-place, and you thought—what? I think that I can guess. You thought that I was some one else, whom you

have reason to fear." She did not answer. It was as if she had not completely measured him. Her eyes told him that. They were not looking at him, but into him. And they were softly beautiful as wood violets. He found himself looking steadily into them—close, so close that he could have reached out and touched her. Slowly there came over them a filmy softness. And then, marvellously, he saw the tears gather-ing, as dew might gather over the sweet petals of a flower. And still for a moment she did not speak. There came a little quiver at her throat, and she caught herself with a quick, soft

"Yes, I thought you were some else whom I fear," she said then.
"But why should I tell you? You are from down there, from what you You are please to call civilization. I sho distrust you because of that. So why
why should I tell you?"
In an instant Philip was at her side.

"A man-one of God's men?" she repeated.

He bowed his head.

Slowly, so slowly that she soarcely emed to move, she drew nearer to

And when you had done this you would be willing to go away, promise never to see me again, to ask no reward? You would swear that?" Her hand touched his arm. breath came tense and fast as waited for him to answer.

"If you wished it, yes," he said.
"I almost believe," he heard, as if
he were speaking the words to herself. She turned to him again, and something of faith, of hope transfigured her face.

"Return to your fire and your prunes," she said quickly, and the sunlight of a smile passed over her she. "Then, half an hour from new, come up the coulee to the turn in the rocks.

ocks. You will find me there."
She bent quickly and picked up the She bent quickly and picked up the little bag and the brush from the sand. Without looking at him again she sped swiftly beyond the fitg rock, and Philip's last vision of her was the radiant glory of her heir as it rippied cloudlike behind her in the sunlight.

CHAPTER THREE

That he had actually passed through the experience of the last few minutes, that it was a reality and not s

Floor Waxi

HAVE followed decoration and schemes which he ently in Farm an och pleased with the eof March 18. I rested in the treate in the treate in the treate in the treate in the do whow to apply it.—Co., On.

with waxing floors, c given in the article issue of March 16, n of two ounces of potash in a bucket of We would advise try on some material lyi applying it to the f

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ralne

10

#### The Upward Look

Travel Thoughts-No. 28 An Easter Thought.

44 THY servants are ready to do whatsoever my lord the king shall appoint."—2 Sam. 15:

At this glad Easter hour I often think we forget the sad, agonized hours that our Saviour suffered before the resurrection: the hours in Gethseman: the hours on the cross. We must think more of that great self-eacrifice, so that it will be a more solema, living ideal and reality in our own lives.

colonn, living ideal and reality in our colonn, living ideal and reality in our to the Alaskan ship we had the Grat privilege of having Bishop Siringer on board. The brave, unprotentious heroism of that man will always be an inspiration. Here are some of the facts of his life among the Esquinaux of the Far North:

He left for that almost unknown He left of the sum of the Far North:

He left for that almost unknown He left of the sum of the Far North:

He left for that almost unknown He left of the sum of the Far North:

He left for that almost unknown He left of the sum of the

One time he and his assistant were One time he and his assistant were loat for two months, with provisions for two days. Someone asked about this: "Were you really reduced to eating your boots?" "Yes," was the eatingle answer, "but eating bootleather is not so very bad if you know just how to toast it to get the greasy smell out of it."

smell out of it.

For a long time he had felt conFor his section of the long time he had been dead

frescherous; the trip fraught with

dangers. He put the whole case before his people and asked for volun
teers. No one reeponded. With a

great sinking of the heart, the bishop

asked himself if this was the result

of all his years' work. Agrain he asked:

"Will no one got" Then an old man

arose, saying: We are all ready to

So but we wanted you to choose."

arnee, saying: "We are all ready to go, but we wanted you to choose." So at this Baster, in commenoration of our Saviour's supreme life-sacrifice, may each of us say, gladly, that we are all ready to do what in our leart of hearts we know He choses for us to do. May each say: "I, the servant, am ready to do what sower my Lord the King-shall appoint."—I. H. N.

#### Floor Waxing Query

Floor Waxing Query

IAVE followed with interest the
decoration and with the latest the
schemes which have been published
recently in Farm and Dairy, and was
supported by the hard revent of the
scheme of Marchall the hard treated in
the treatment of floors this
synta, and as J do not understand the
storage of Marchall floors, would like to
know how the support in—"A. Fleadors" Halton Co., Ont.
The first application in connection
with waxing floors, called the filler, is
given in the article mentioned in our
fisue of March 18, manuley, a mixture

given in the article mentioned in our issue of March 18, namely, a mixture of two ounces of permanganate of potash in a bucket of boiling water. We would advise trying this mixture on some material lying around before applying it to the floor. If you de-

sire a light floor, the filler should be quite light in color.

quite light in color.

Purchase a color derivation and the color of th one can cover a space two feet wide at one time. If a large amount of floor space is to be waxed, a weighted brush made especially for polishing waxed floors can be purchased.

#### **COOK'S CORNER**

Easter Dishes Maple Custard.

B EAT four eggs, add four cups milk, a dash of salt and one half cup maple syrup. Put into wet custard cups and set in a pan of hot water to bake. The water should not boil after baking has begun.

Banana Cream Sauce.

Bahana cream Sauce.

Press one banans through a sieve, add juice of half a lemon, half a cup of sugar and one egg well beaten.

Beat all together until light and set in a cold place until ready for use. This sauce may take the place of whipped cream for any jelly deserts.

Peanut Cookies. One cup chopped peanuts, two tablespoons milk, one-quarter teaspoon salt, two teaspoons baking powder, flour and roll.

Apple Snow Jelly.

Dissolve a package of jelly powder with a pint of boiling water. When with a pint of boiling water. When partly cold, turn into tail, slender glasses, filling about three-quarters full. When set, pile apple snow on top. Apple Snow—White of one egg, one grated apple, one half cup sugar. Best until light and feathery.

Potato Chickens.

Six potatoes, one teaspoon salt, Six potatoes, one teaspoon sail, three tablespoons butter, pepper, one-third cup hot milk. Boll potatoes and drain and mash, season, add the hot milk gradually, beat until light and creamy. Pile on a hot dish, form in the shape of little chickens, using Here is the Phonograph You've Been Waiting For



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The special record of the special because it is the continuous and starts one or off the record of the special because it is dead on account of its great volume of sound and clear for a special composition of the great special continuous continuous

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The Adams Furniture Co., Limited, Toronto, Ont.

Eggs on Toast

as many slices of bread as dea nicely poached egg with a dot of butter and dash of popper on each egg. In poaching eggs, have plenty of boiling water, actually boiling when eggs are dropped in, but not after-wards. A little salt and vinegar may be added to the water. Try poaching each egg separately in a small, deep

#### The Crow

NONE of our native birds so much concerns the average farmer of the Eastern provinces as the common cow. Many of our present criticisms of this bird, as its pulling sprouting corn, feeding on ripening ears, damaging fruits of various kinds. destroying poultry and wild birds, and disseminating diseases of live stock, were common complaints in the days

tiny pieces of best for the eyes and toothpicks for the beaks. Place in a tere of record for many years. In nest of paralley,

of these problems, including the ex-amination of the stomachs of hun-dreds of crows secured in every month of the year and under a variety of conditions, has enabled us to ren-der a much fairer verdict than was erly possible.

The insect food of the crow, which mprises about a fifth of its yearly sustenance, does much to atone for its misdemeanors. Grasshoppers, May misdemeanors. Grasshoppers, May beetles and their larvae (white grubs), caterpillars, weevils and wireworms atand out prominently. In 1,103 stomachs examined these highly injuri-ous forms comprised over 80 per cent.

of the insect food.

In the other animal food of the crow are several items of the utmost economic importance. Spiders are and June, but the yearly total is a lit-In early spring crawfish are eagerly sought, and other aquatic food as fish and molluses lend variety to the crow's bill of fare the year round. in the consumption of toads, salamandera, frogs, and some snakes, which, to-gether, compose a little over two per cent. of the yearly food, the crow is doubtless doing harm. Small rodents occurred in the stomachs collected nearly every month, but it is often difficult to determine whether small were taken alive or found dead.

From its carrion-eating habits the crow has been unfairly criticized as a disseminator of live-stock diseases. While this may be to some extent just, while this may be to some extent just, the fact that there are many other important carriers which lie largely beyond our control, shows that we must seek final relief only through the strictest methods of sanitation.

The nest-robbing habit of the cro long a serious criticism, is verified by stomach analysis. Fifty of the 1,103 crows examined had fed on 1,103 crows examined had red on wild birds or their eggs, and the eggs of domestic fowls were found slightly more frequently. The crow's habit of rummaging about garbage piles may explain much of this latter material.

Of the vegetable food, corn, which is eaten every month, is the most important item, and forms about a third of the yearly diet. Much of this, however, must be considered waste. Over 60 per cent, is consumed from the first of November to the end of March. During the periods when corn is sprouting and when in the "roasting ear" stage, the crow is eating this grain at a rate considerably less than the yearly average, and the months of smallest consumption are July and August. Wheat and oats suffer simi-lar damage at times, especially in the Western States, where these grains

Various kinds of cultivated fruits also are eaten, and local damage to such crops as apples, meions, peas, beans, peanuts and almonds is occasionally reported.

Damage to the eggs of poultry may be reduced to a minimum by careful housing of laying hens, and the farmer can protect his sprouting grain to a large extent by the use of tar-coated seed. While legal protection is not seed. While legal protection is not needed for so wary an individual at the crow, it seems well, where local conditions have not aggravated some particular shortcomings of the bird, to allow it to continue the good service rendered to man in the destruction of novines insects.

"Mammy, dear," said little Matty, .
"what is a stepmother?"
"If I should die and your dad should marry again, the lady would be a stepmother."

"Oh, I see," remarked Matty; "you'd step out and she'd step in."



rose a faint, rock violet. rock violet, b he had crushe his hands. H in the shirt, and we

A hundred stream turned strip of forest water's edge. bank, and stoo

She had hea was waiting for welcome on he pleted her toll her wonderful h about her head of lace at her of it at her w beautiful, more queen of a kine fore him now. He saw that in "You didn't asked, and for

a bit of taughter "No-I-I kicl He caught th words, and her ture. A short vas a small tent front of the tent

he had not looke
"I am glad," her eyes met hi friendly humor. spoiled your app up my mind that dinner with me. or doughnuts. I that I made my

They sat down tween them, and to turn him a cu that was already Her lovely head he stared with h the thick, shining white contour of I him. The words ter went from h

wave the blood flu don't understand, weeks past I have how I would act people again. Per derstand. But ele there—eighteen m of a white woman to live on—will me time. Can't y

"A great deal,"
quickly that she
again. "Back the
believe you. I am
You are honest. I of ourselves until you like the cake?" She had given hi

as his fist, and he t "Think of it-not! tannock, bannock i only six ounces of last six months! eat the whole of

Seriously she beg mainder of the cake "It would be one compliments you consaid. "But won't boiled tongue with lobster, a pickle-"Pickles!" he in ich

nt.

the

are

#### God's Country and the Woman

(Continued from page 16.)

rose a faint, sweet scent of the wild cake and

A Bundred yards above him the stream turned abruptly, and here a strip of forest meadow grew to the water's edge. He sprang up the low bank, and stood face to face with the

welcome on her ligs. She had com-pleted her toilet. She had braided her wonderful hair, and it was gatherher wonderen man, and it was a flutter ed in a heavy, shimmering coronet about her head. There was a flutter of lace at her throat, and little flutter. of it at her wrists. She was more beautiful, more than ever like the queen of a kingdom as she stood before him now. And she was alone, He saw that in his first swift glance.

he had not looked upon for two years.

"I am glad," she said, and again her eyes met his with their glow of friendly humor. "They might have spoiled your appetite, and I have made sponed your appecte, and I have made up my mind that I want you to have dinner with me. I can't offer you pie or doughnuts. But I have a homemade fruit cake, and a pot of jean that I made myself. Will you join

They sat down, with the feast be-They sat down, with the feast between them, and the girl leaned over to turn him a cup of tea from a pot that was already made and waiting. Her lovely head was near him, and he stared with hungry adoration at the thick, shining braids, and the soft white contour of her cheek and neck, She leaned back suddenly, and caught him. The words that were on her lips remained unspoken. The laughter went from her eyes. In a hot

ter went from her eyes. In a not wave the blood flushed his ovin face. "Forgive me if I do anything you don't understand," he begged. "For weeks past I have been wondering how I would act when I met white people again. Perhaps you can't un-derstand. But eighteen months up -eighteen months without sound of a white woman's voice, without a glimpse of her face, with only dreams to live on—will make me queer for a time. Can't you understand—a

"A great deal," she replied so quickly that she put him at ease again. "Back there I couldn't quite believe you. I am beginning to now. You are honest. But let us not talk of ourselves until after dinner. Do you like the cake?"

She had given him a piece as large as his fist, and he bit off the end of it.
"Delicious!" he cried instantly.
"Think of it—nothing but bannock, bannock, bannock for two years, and only six ounces of that a day for the last six months! Do you care if I eat the whole of it—the cake, I

mean r. Seriously she began cutting the re-mainder of the cake into quarters. "It would be one of the biggest compliments you could pay me," she said. "Bat won't you have some boiled tongue with it, a little canned liester, a nickle...."

lobster, a pickle—"
"Pickles!" he intercupted. "Just

rose a faint, sweet scent of the wild cake and pickles—pleased I've rock videlt. He knew task It was dreamed of pickles up there. I've had rock videlt, because more that now the most control of the state of the st

Behind the lightness of his words she saw the truth—the craving famine. Ashamed, he tried to famine. whore some. The spring up the low families, assumed, he tried to hide bank, and stood face to done with the it from her. He refused the third gir.

She had heard his approach, and over and placed it in his hand. She was waiting for him, a little smile of insisted that he cat the last place, and the last pickle in the bottle she had opened

When he finished, she said: "Now-I know."
"What?"

"That you have spoken the truth, that you have come from a long time in the North, and that I need not fear what I did fear."
"And that fear? Tell me-

"And that fear? Tell me—"
"You didn't eat the prumes?" she assiced, and for the first time he saw a both of saughter in her eyes.
"No—!—! takked the fire from under them," he said.

He caught the significance of her words, and her sudden sidewise gesture. A short distance from them was a small tent, and on the grass in tront of the tent was spread a white cloth, on which was a meal sich as he had not looked upon for two years. any you may have faced in your morths of Arctic night. But it is im-possible. All that I can ask of you now—all that I can demand of you to prove that you are the man you said you were—is that you leave me, and never whisper a word into another ear of our meeting. Will you promise that?"

"To promise that—would be lying," he said slowly, and his hand unclench-ed and lay listlessly on his knee. "M there is a reason-some good reason why I should leave you-then I will

"Then-you demand a reason? "To demand a reason would be-He hesitated, and she added: "Unchivalrous."

"Yes-more than that," he replied softly. He bowed his head, and for a moment she saw the tinge of gray in his blond hair, the droop of his clean, strong shoulders, the something of hopelessness in his gesture. A new light flashed into her own face. She raised a hand, as if to reach to him, and dropped it as he looked

"Will you let me help you?" he ask

(Continued next week.)

Well Pleased With Butter Mixer

Mrs. J. H. Sherk, Grey Co., Ont.
SAW by our last Farm and Dairy
that you are asking the women
readers to write giving their experiences in butter making. I thought periences in butter making. I thought I would write and tell you how I make butter, not because I think I know how, but if no one writes on the subject, none of us will learn anything about it. It may be that some one will benefit by my way of making butter. I do not make a great deal but I try to make it as good as I know but I my to make it as good as I know but I would be to make it as good as I know the work of the wor willing to pass on.

Last summer I had difficulty in getting cream to come to butter and had to churn about three hours every time. I tried everything and asked everyone whom I thought might know anything about my difficulty, but did anything about my difficulty, but did not not be seen and the satisfaction. At last my have get much satisfaction. At last my have get much satisfaction. At last my have get much satisfaction asking about a butter factory and in asking about the sisterer or yeast Last summer I had difficulty in





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that is used, so brought some of it with him, also the recipe for making it. That put an end to three hours

of churning.

In gathering my cream I never put
the warm cream with the cold, always
allowing it to cool first. When I have
enough gathered for a charning, I
bring up my starter from the cellar
and put in one pint of it to every 20°
pounds of butter. (I know about how
much hutter a certain amount of pounds of butter. It know about now much butter a certain amount of cream will make). Then I heat the cream to 86 degrees and keep it at that temperature for about four hours. It is then allowed to cool to 80 degrees and stand 24 hours. I churs next morning and unsually find th. cream at 60 to 65 degrees. It it is too

next morning and usually find the cream at 60 to 52 degrees. If it is too cool 1 warm the churn and put the cream into it, then put in the butter coloring and commence to churn. The butter usually comes in about 28 minutes. I just let it gather in regarded to the coloring and commence to churn. The substantial was a state of peas, regarded to the coloring and commence of the coloring and the butter in the churt. The state of peas, water from the churt. The mixer and worked well. In summer I let the butters stand till next morning, then mix again and put in prints, but in winter I finish it right up as in cold weather the butter becomes very hard if allowed to stand. Every woman should have a butter mixer. We did not buy a butter in the coloring only the coloring only the coloring coloring the coloring coloring the coloring that the coloring the coloring butter in the coloring coloring the coloring butter in the coloring that the coloring butter is the coloring that the coloring the coloring butter in the coloring that the

85.80. It saves hard work and makes better butter.

I sell my butter to the country storekeeper as I do not make enough to send away. I get one cent a pound more for it on account of awing a butter mixer and they tell me they can well afford to give me more as it helps to sell their other butter.

#### Light on Scriptural Prophecy

The Regathering of Israel

Y OU state in Farm and Dairy that the people of Israel are yet to be regathered from among the nations. What and where are some of the clearest prophecies indicating this? In the eleventh chapter of Romans

In the eleventh chapter of Romans-Paul explains (verse 8) that became of their sin in rejecting Christ as their promised Messish, God has given them the spirit of slumber. In the 25th verse he states that their blind-ness will continue until the funcess of the Gentiles be come in. This means that the Gentile, or so-called Christian sations, are underwoine a nericle of the Gentiles be come in. This means that the Gentiles or so-called Christian This the Gentiles of the Gentiles

#### The Make

Eastern Dairy THE following ranked in

ranked in a successfully aminations at it School, Kingston, diplomas after properties a continuous successful and the successfu Wm. Wright, Sout Murray, Kemptvil South Indian; J. V Second Chase: Rockspring; J. W. J. B. Mercier, Jas; Wilson; Jas. Kfing, Kingston; W. C. Brook; F. W. Stam Pass List: F.

Pass List: F.
ville; A. J. Sullivar
E. Tordiff, Brooklin
ridge; C. H. Lee, Davidson, Glasgow

Maritime Dairy So HE Farmers' a

sociation of which recentl tion, went on rec a Maritime intersection. The following

"Whereas the fi Brunswick feel the vanced methods in fi

And whereas the

cation along these li to that of the West even Nova Scotia. "And whereas the Maritime Provinces. inefficient to maintai stitutions up to the s in the Western Provi

"Therefore, resolv Farmers' and Dairyn in convention ask or give us such assistan us to cooperate with time Provinces in esta time Dairy School in the Nova Scotia Agr at Truro, and main veloping those instit standard second to no

A New Cold Sto

E kitchen refrigers milk, butter, m practice the principles the operations of the cold storage warehouse some particulars the me by Bulletin 44 of the Storage Branch, Ottawn Cold Storage of Food 1 bulletin is prepared by Dairy and Cold Storage and Joseph Burgess, C spector, and outlines a wpector, and outlines a smap processes that are handling, storing, ship servation of such peri as butter, cheese, veg hilk, poultry and apple eary temperature is give stance, information also no the care of furs and A cardinal principle. A cardinal principle

that when storage is to the cooling process of about too quickly in the cases, although with m not extreme suddenness, milk which is cooled it

#### The Makers' Corner

Eastern Dairy School Graduates THE following is a list of students ranked in order of merit who

ranked in order of merit who successfully passed their examinations at the Eastern Dairy School, Kingston, and will be granted diplomas after preving their ability by operating a creamery or cheese factor satisfactorily this season: Honors: Fred Hudson, Kingston; Wm. Wright, South Mountain; Fred Murray, Kemplyille; D. McDougall, Annual M. Balton, Organol.

Wm. Wright, South Mountain; Fred Murray, Kemptyllie; D. McDougasil, South Indian; J. W. Bolton, Ormond. Second Claser; A. W. Morrison, Rockapting; J. W. Tordiff, Brocklin; J. I. Meccler, Jusper; E. G. Wilson, Wilson; Jas King, Almonte; C. Ogle, Kingston; W. C. McEwen, West Brock; F. W. Standiah, Charence, Pase List: F. Pattemore, Frank-Pase List: F. Pattemore, Frank-

Broog F. W. Standssn, Charence, Pass List: F. Pattemore, Frank-ville; A. J. Sullivan, Plantagenet; W. E. Tordiff, Brooklin; H. Stinson, Bur-ridye; C. H. Lee, Lindsay; W. G. Davidson, Glasgow Station.

#### Maritime Dairy School Requested

HE Farmers' and Dairymen's Association of New Brunswick, which recently met in convenwent on record as favoring Maritime inter-provincial dairy a Maritime interpretation was school. The following resolution was

Brunewick feel the need of more advanced methods in farming and dairy-

And whereas the facilities for edu cation along these lines are not equal to that of the Western Provinces, or even Nova Scotia.

"And whereas the finances of the Maritime Provinces, individually, are inefficient to maintain educational institutions up to the in the Western Provinces. stitutions up to the standard of those

"Therefore, resolved: That the Farmers' and Dairymen's Association in convention ask our Legislature to give us such assistance as will enable us to cooperate with the other Maritime Provinces in establishing a Maritime Dairy School in conjunction with the Nova Scotia Agricultural College at Truro, and maintaining and de-veloping those institutions up to a standard second to none."

#### A New Cold Storage Bulletin

ERY person who makes use of a kitchen refrigerator, or places milk, butter, means, fruit, or resolution in a cool cellar, puts into practice the principles which underlie the operations of the most up-to-duct cold storage warehouse and follows in cold storage warehouse and follows in some particulars the methods described by Bulletin 44 of the Dairy and Cold Storage Branch, Ottawa, entitled "The Cold Storage of Food Products." The Cold Storage of Food Products." The builden in prepared by J. A. Ruddick, Dairy and Cold Storage Commissioner, and Joseph Burgess, Cold Storage in spector, and outlines all the methods end processes that are pursued in the handling, storing, shipping, and pre-servation of such perishable articles as hutter, cheese, vegetables, edge. as butter, cheese, vegetables, eg milk, poultry and apples. The nec

milk, poultry and appless. The necessary temperature is given to each instance, information lake being given on the care of furs and secondary. A cardinal principle secondary of the temperature of the cooling process cannot be the cooling process cannot be about too quickly in the majority or eace, although with moderation and not extreme sauddenness. For instance, milk which is cooled immediately to

60 degrees F. will keep longer than if kept for several heurs at 70 or 80 degrees and than cooled to 40. Butter steeps best at a local condition, and the research best at a local condition, and the research described condition, and the research described condition, and particularly apples, keep much better if promptly cooled after picting, and can be preserved longer in cold storage. Eggs intended for cold storage should be gathered and treated storage should be gathered and treated at soon as possible after being laid. slorage should be gathered and treated as soon as possible after being laid. But, in a brief rewiew, it is not easy to lay adequate stress upon the im-portance of this bulletin, which can be had free of cost by application to the Publications Branch, Ottawa.

#### Progressive Saskatchewan

F. M. Logan, B.S.A., Ass't. Dairy Commissioner of Saskatchewan.

T has been my privilege to study at first hand the systems followed in several of the other provinces, and after being intimately associated with the work here during the past nine months, I have no fear of contradic-tion when I say that Saskatchewan isads the procession. Through the wisdom, foresight and untiring energy of her Dairy Commissioner, Saskat-chewan has had in operation during chewah has had in operation during the past three years, methods which old Ontarlo hopes-to adopt some time in the distant future. The growth of the industry during these years is convincing proof that these methods

are both practical and effective.

The grading of cream which is carled out more universally in th province than in any other in Canada, has had the effect of improving the has mad the elect of improving the cream to a remarkable degree. The possibility of obtaining five cents more per pound of butterfat for cream of good quality than for cream of inferior grade, has been the means

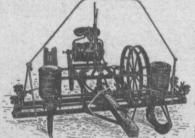
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simple attachment.

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The Ontario Machine Co., Limited 18 Bloor St. East, Toronto



of reforming many of the carcless ed. By this system the butter from chairymen of the province. If you thit has a farmer on the head he will listen, but if you hit him in the pocket he will act. In addition to the system being the means of improving the value, and the many control of the province of t Grain, fruits and other farm produce are sold according to their quality. Why should not milk and cream be purchased in the same way? Had Saskatchewan not adopted this sys-tem, she would not now be able to sell her butter from one to two cents per pound higher than Eastern but-ter will bring on the same market. Another feature of almost equal

importance to the grading of the cream, is the cooperative marketing of the butter. The practice of having all the butter from the creamerles brought into cold storage as brought into cold storage as soon after it is made as possible and each churning carefully scored, and its condition reported immediately to the man who made it has been more effective in improving the quality and workmanship than any system of in-

ter, and none of them would be position to supply any quantity of ter of a particular grade. By operation of this principle we are abled to build up a reputation market for Saskatchewan butter would be impossible if the old : ods were followed.

By the adoption of the cooper principle in the formation of the panies and the operation of a num of creameries under one head, imant savings can be made in ways, such as buying supplies ing the books and marketing the ing the books and marketing the output, and the business, generally
speaking, carried on much more
sconomically than if each creamery
were operated separately. I think have said sufficient to convince rethat the creamery industry in his
province, so far at least as the copossible, creameries are concessed. operative creameries are concerned

#### Home Grown Clover Seed the Best

It is Hardier, Cheaper, and is Usually Sown More Liberally Than That Purchased From the Seedsman—By F. C. Nunnick

UT of twenty-three farmers in the Eastern Provinces who have conducted illustration work for the Commission of Conservation, or two claim to have been sowing their clover seed thick enough to ensure a good catch. Twenty-one had been sowing an average amount of six pounds to the acre, whereas they now sow 10 pounds to the acre. Some had sow 10 pounds to the acre. Some had sown as low as three or four pounds, but are now convinced that 10 pounds is botter and are sowing it. Three farmers had previously grown their own seed, while now 12 are regularly doing so. George R. Barrie, Galt, Ont.,

The high price of clover seed had something to do with our sowing a small amount, but since growing our own seed, we do not mind sowing it heavier and find that the extra seed-ing more than pays for itself."

Another farmer who had not previ-ously grown his own seed states that in 1914 they produced 500 pounds of alsike seed and 100 pounds of red clover, while in 1915, he grew over 1,000 pounds of red clover seed. farmer doing illustration work for the Commission in Lanark County, Ont., in 1914, grew 1,200 pounds of red clover seed and had never grown a pound of his own seed previous to commencing work with the Commission.

J. M. McLean, New Perth, P.E.I.,

says:
"During the last two years the first crop of hay was always much better on the area sown with 10 pounds of clover and 10 pounds timothy, while this year we have an unusual stand of clover in the plots heavily seeded. . . . We find the second crop is always much thicker and of a better quality after the thick seeding.

Numerous comparisons have been made on the Illustration Farms in the way of trying out home-grown seed side by side with that purchased from seed houses. The home-grown seed given, in every instance, better has given, in every instance, better results, in some cases the home-grown seed was just enough hardier to survive the winter, while the crop from the purchased seed suffered very much from winter killing. The wise farmer will plan now to bave a crop of clover seed this coming summer, if possible. By cutting the first crop early, the second or seed crop is al-lowed to get an early start.

The Milking Problem A. Bishop, Oxford Co., Ont.

UR larger dairymen are investong more and more in the mechanical milking machina They find it next to impossible to get men who are efficient mrikers. I good investment, but how about us smaller farmers with 10 to 12 cox who will have to continue milking by hand until the machines become cheap Many of the men on whom w must depend to milk are old count immigrants, who have not a sufficient appreciation of what a highly nerv appreciation of what a highly zerous animal is the dairy cow. A ma
that I had recently informed me whe,
I stopped him from beating a cov,
that that was the way they "did it
over home." The only way out of the
difficulty that I can see is to tail
each man as they come to us, explain them carefully the characteristic of our dairy cows, and then tell then how to milk as we would do it out

In the first place I would not allow green hand to start right in milking a valuable cow. I would start him of the least valuable cows that I have and on some that are fairly well at vanced in lactation. When they have learned to manipulate the teats with out pulling too hard, and with dry hands, I would let them attempt the more valuable cows. I always les my men to believe that good milking I always lead is really an art, and something word acquiring, and I have trained som green immigrants to be ven erate milkers.

A bigger proposition than the gree immigrant, however, is the careles farm hand who thinks he knows her to milk and really doesn't. We have had some of them. They jerk the teats, wet their hands and then wooder why we are not satisfied. If it not that help is so hard to get ! would never hire a man of this kint He, too, however, can be educated a take a reasonable pride in the operation. I have noticed that since I have started to take daily, instead of the times a month records of the mil produced by each cow that my ma-takes more interest. We have at own cows to milk, and one can easily work up rivalry between the two ss

solved by withing on help and

Congrete

April 20, 1916.

make his own cow I have frequently complain about the men on the dairy f that hired men pr beef or grain rais there are no cows believe that their they regard the mili insist on it being morning and after were a hired man between working b six on one farm wit and on another wit to milk after suppe ate long in employ side of the fence t proposition in its :

of cows, each one

Other People

The Curse of

DITOR, Farm a vears ago the vitem in "Onwa Methodist Sunday the effect that the the effect that t huilt on a lot own Field, a well-known chant of that city of The price paid by dollars, with the co the end of a term with all buildings o wert to Marshall Fiel

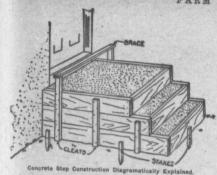
Of course this printed in the pape ed to show the far-si Field in being so luvaluable a spot of courage its readers similar spots of ears aim to imitate the lionaire Field.

Now, Mr. Editor, permission I would foregoing as a text a sermonette, seeins monettes are rather sure to be interesting to dollars and centsand age.

that Marshall Field his own labor nor wife and children b thousands of others see or know or care
The gathering toge
makes the holders of makes the non-calland rich at the expe ors of others. The stance of Marshall every year rent out others for the priv

0. 1916

would of be By



believe that their difficulty is that they regard the milking as chores, and insist on it being done early in the morning and after supper at night. It I were a hired man and had to choose I were a nired man and may to thouse between working between seven and six on one farm with no cows to milk, and on another with five or six cows to milk after supper I wouldn't hesitate long in employing with the first man. We need to get on the man's side of the fence to see this milking proposition in its right light

Other People's Opinions

The Curse of Landlordism

DITOR, Farm and Dairy,—A few V vears ago the writer saw a short term in 'Onwed', one of the Methodist Sunday achoo! The methodist Sunday achoo! The methodist Sunday achoo! The methodist Sunday achoo! The method of the method o DITOR, Farm and Dairy,-A few

honaire Field.

Now, Mr. Editor, with your kind permission I would like to use the foregoing as a test for the basis of a sermonette, seeing that such sermonettes are rather scarce, and it is sure to be interesting, as it relates to dollars and cents—god of this day and age.

Let us remember that it is rent that Marshall Field got rich on not his own labor nor the labor of his wife and children—but the labor of thousands of others that he did not thousands of others that he did not see or know or care anything about. The gathering together of people makes the holders of title deeds of land rich at the expense of the labors of others. This particular instance of Marnhall Field, drawing every year rest out of the labor of others for the privilege of letting

of cows, each one doing his best to make this own cows come out ahead.

I have frequently heard neighbors complain about the difficulty of hirms men on the dairy farm. They tell me this hired men prefer to work on a beef or grcin raising farm, where there ear an cows to milk. I have there ear an cows to milk. I have never had this trouble myself, and I believe that their difficulties in the complete of some years ago, saw the very leaves the third their difficulties in the complete of the Britain's noted champion of freedom of some years ago, saw the very same, "Robber," for he often said. "The heaviest burdens on the land is the landowgers." That is, led which are a growing Public Debt on the rest of people, city of June grows, so grow the Public Debt represented by the title Public Debt represented by the title

ator, Lincoln, treatment of thing.

"A house divided against itself cannot stand. This nation cannot permanently endure—half slave and half free."

obermanely endure—hall slave and half free."

Shall we heed their warning? The good old Bible points out the remedy when it states: "The profit of the carth is for all." That is, the value of land is for all. How can it be taken for all instead of allowing it to go into the pockets of a few who "toil not, netther spin," who become rich at the expense of the toil, tears and poverty of the many? Here is a problem as important as the war. If this war does not over-throw civilization, then the continuation of the purpose of of the purpos

deed of the landowner. His title deed is a bond and the other people are "ip bondage" to him. No matter what ip eople may do, no matter what if eople may do, no matter what if eople may do, no matter what if heart they make in order to better where can be Marshall Fields everyment of the masses and take rent, most and more, and keep the masses in the most of the most of the most of the masses in the most of the

The rich man's prostitute and slave: Youth Mother Earth, that gave you

birth,
You own her only for a slave."
Why not arise, think, act and inwardly resolve that this giant wrong
shall speedily disappear?—W. D.
Lamb, Alberta.

Every year, readers of Parm and Dairy are in sever practical information concerning the page of practical information concerning the several page of practical information correlated to the several page of building concerts construct methods of building concerts construct methods of building concerts construct new for formation, there was not been several to the several page of the control of the several page of the control of the several page of the several page

What does a bevel gear cost? The Ford owner saves \$12 that the other fellow has to pay for one

> \$16.00 Average cost of the bevel gear of cars priced around \$1000 and less. Cost of Ford bevel gear.

> \$12.00-This stays in the Ford owner's pocket book.

> Other Ford spare parts are just as low priced in proportion—the 25 most called for parts aitogether cost only \$8.04.

> And less than a dollar a year as a total expense for spare parts is not at all an uncommon experience of Ford owners.



FORD, ONTARIO

416





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An Advocate of Inbreeding Talks

or LIKE the animal. Just what I want as an individual. But I can't use him. Don't believe in in-breeding." How often every treeder of pure breed stock has heard that objection raised by a prospective buy-

er.

Is the objection well taken? Perhaps it is in the case of the careless or indifferent breeder. But inbreeding has many advocates among careful men who are students of their breed. One of these, W. O. Jeffries, writes interestingly of his ideas in the "Ohio Farmer." Here are a few extracts from his article that explain his belief in the wisdom of inbreeding.

In my herd I have a cow that is a splendid example of a strain that is not a strain. We call her a Johanna and that is a part of her name, although she carries less than 2 per cent, of the blood of the famous imorted cow Johanna. As showing ow some so-called strains have been formed let us take a peep at the method by which the present noted strain (if we may call it a strain) of Johannas was formed.

Good Blood Dilluted

Good Blood Dilluted
The cow, in orted Johanna, wint into a Wiscrisin herd, the owner of which did not believe fir inbreading. She was bred to a bull of similar conformation to herself, but which had not a drop of Johanna blood. The result was Johanna 8th carries 80 per cent, of the blood of Johanna, She was a model in form and made an official record of over 22 ths, of butter in 2 days, She in turn was herd to a official record of over 20 lbs, of butter in 7 days. She in turn was bred to a "no-relation" bull and the calf was named Johanna Rue, with a 25 per cent Johanna, and 20-lb. record. She was bred to a bull of approximately the Johanna form but carrying not a carrying has been considered to the control of th

"She was bred to a "no-relation" bull and produced Johanna DeKol 3d, 6½ per cent Johanna, with a re-cord of 18 lbs. Bred to a bull without



A type of Holstein Cow popular in both Holland and America.

—Photo, courtesy D. Shoemaker, The Netherland

ohanna blood she produced Johanna De Colantha, about 3 per cent. Jo-hanna, and with a record of nearly 25 lbs. The same old trick again and 25 lbs. The same old trick again and the result is a pair of twin heifers that are still called Johannas al-though having only a trifle over 1½ per cent, of the blood of the import-ed cow Johanna. The supposition is that to the end of time their poster-ity will be still called Johannas, although carrying practically none of that blood. The name Hannah Jane would be just as appropriate.

The Impossible in Breeding

The impossible in Breeding
"Can a new strain be produced by
bringing in new blood at every generation? A crystal stream comes rippling down the mountain side; after
reaching the prairies it is joined by
innumerable tributaries. Is it the
same stream? I claim that there are
few true strains of
anywhere in the world today.

am more than certain that

breeding is a mere bugaboo to many breeding is a mere bugaboo to many intelligent breeders and that it hay retarded the progress of stock improvement. Of course we are progressing without inbreeding and that seems to satisfy most of us; but I confidently look for the future to do greater things through the potency of inbreeding than has ever been done by introducing brand new blood with every generation.

Result of Out-Breeding

"I imagine that I see 10000 men weeping. Weeping over what? Not the loss of Atlantis, but possibly even a greater loss. I refer to the almost complete, extinction of the blood of Justin Morgan, one of the world's most famous horses. It was lost by the loss when the see that the see that the seed of the se most famous horses. It was lost by the slow but sure process of dilution. Probably 99 out of every 100 of these very men would hold up their hands in horror when the subject of in-breeding is broached. If 80 per cent of the blood of Justin Morgan was werth having why would not 150 per worth having why would not 150 per worth having why would not 150 per the blood of Justin Morgan was worth having why would not 150 per the blood of Justin Morgan was well as the blood of the blood of the three should have resulted at least there should have resulted at least there should have resulted at least a score of choice mares and half a dozen extremely choice stallious, each carrying 75 per cent. of the blood of what many people call the world's greatest horse. With that bunch of inbred horses for a nucleus we would to-day have had the real Morgan horse instead of a make-believe Morgan that has twice 'levertheen' cross-gain that

only six per cent of his blood.

Is there any animal in the world
that is so much better than its kin
that its blood should be perpetuated
almost in its entirety? It can be done
only by inbreeding. New blood
through a hundred tributaries will
serve only to wash it out of exis-

Lice

HAVE two cows which show symptoms of being afflicted with lice or some parasite which causes great itchine. I first noticed the hair about the neck showing a not of secure or adapted, which showing a not of secure or adapted, and in spots around the neck and root of sall connect out, and there a seems to be across on the skin like very small boils. I have tited weaking them with a solution of tokeno.

H. B., St. John, N. B. of improvement—G. H. B., St. John, N. B. of the property of the sall property of the

Give a thorough waching with a warm five per cent. solution of crelin. Repeat every 10 days as long as accessary. Treatment will be easier if you clip them, but, of course, you must keep them comfortable if yes clip.

"Can any one name a liquid that doesn't freeze?" asked the teacher. There was a moment's silence. Then a voice in the rear of the room answered, eagerly, "Please, teacher, hot water."—Youth's Companion.

# Page Fence Direct to you. Freight Paid.

T may be many years before fence is as cheap as it is now. If you need fence within the next two or three years, we advise purchasing at once.

We are for the present selling Page Perfect Fences, all No. 9 full gauge, locks also No. 9 gauge, at following prices, which are the lowest that anyone can name you for good quality. In buying Page goods you are assured of getting what you pay for

## PRICE LIST

bars.	Height.	ins, apart.	horizontals. Old Ontari
bars.			
6	40	22	616, 7, 816, 9, 9 2916
7	40	22	5, 51/2, 7, 7, 71/2, 8
7	48	22	5, 616, 716, 9, 10, 10
8	42	161/2	6, 6, 6, 6, 6, 6, 6
8	47	22	4, 5, 51/2, 7, 81/2, 9, 9
8	47	161/2	4, 5, 5%, 7, 8%, 9, 9
9	48	22	6, 6, 6, 6, 6, 6, 6, 6
9	48	161/2	6, 6, 6, 6, 6, 6, 6, 6
9	52	. 22	4, 4, 5, 5%, 7, 8%, 9, 9
9	52	161/2	4, 4, 5, 5½, 7, 8½, 9, 9
10	48	161/2	3, 3, 3, 4, 5½, 7, 7, 7½, 8 49
10	48	12	3, 3, 3, 4, 51/2, 7, 7, 71/2, 8
10	52	1616	3, 3, 3, 4, 5 1/2, 7, 8 1/2, 9, 9
11	9.0	16/2	3, 3, 3, 4, 51/2, 27, 81/2, 9, 9
	New	Ontario pri	ces on request. All full No. 9 gauge.
En	ight nale	on ordere	amounting to \$10 or over

#### Special Poultry Fence

2-inch spaces at bottom, in-creasing to 6 inches at top. Uprights 8 inches apart. Top and bottom No. 9, balance No. 13 gauge 18 Bar, 48-inch ... 55c 20 Bar, 60-inch ... 61c

arbed wire, 80-rod spool. \$3.80 arbed wire, per 100 lbs. 4.20 aples, small lots . . 5c lb. 0, 9 wire, small lots . . 4c lb. diled wire, per 100 lbs. \$3.85 GATES.

Send to us direct, or if you prefer to have your dealer order for you, we will allow him a small disint for his trouble.

Let us send you our "Direct to You" complete price list.

# THE PAGE WIRE FENCE COMPANY LIMITED. 1139 King 3t- West Foreston 519 Note Dana West 41 Deck Street, 31. John, N.B.

HOLSTEIN-FRII

April 20, 1916.

Farm and Dairy exponent of dairy The great majority of the Canadian I Association are paper. Members of are invited to send est te Hoistein br lication in this col

SALES DATES SALES DATES
Sales of Holateins, J
d Spring Farm, Van
Complete dispersion
pre bred Holateins
tevens, Philipaville.
Complete dispersion
C. Kettle, Wilsony
Annual sale of Hol
arm, Brockville, Mas
Brockville District (teins, about 75 head,
by, Secretary,

HOLSTEIN LEA HOLSTEIN LEA TWO glants of the confey passed aw of Kalamanco, Mice el from a meeting of tors of the Holstein. Flora tack of coresponence mont Farms, Middelic mont Farms, Middelic poping his unaut health poping his unaut health of the coresponence in the week.

MAY ECHO MAY ECHO
A LL Holstein breede
Hardy's great cow.
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fever Dairy.
Note: On another published an illustra
Estilor as Champion
breed in Canada. T
already on the press
Dairy beard of the r
May Echo Sylvia.—E-

Mature

Mature

1. Daisy of Burnb

1lm 12d; 595.2 bbs.
28.66 bbs. butter. D.

1lb 12d; 595.2 bbs.
28.66 bbs. butter. D.

1lb 14d; 595.2 bbs.
28.67 bbs.

Senior Four-1. Woodcrovet Corne 11m. 9d.; 594.1 lbs. 2:26 lbs. butched; 4y. 11-day record; 4y. 11-day record; 4y. 2. Heanie Abbekerk 11m. 3d.; 586.1 lbs. 25. 26. Core Netherland 11m. 10d.; 519.6 lbs. 22:29 lbs. butter. 11-day record; 4y. M. Van Patter & Son 4. Wayne Butter 42: 61.1 lbs. mills. 18-day record; 4y. 18-day record; 4y. Senior Four-

1. Flora Fayne, 2 281,9 lbs. milk, 18.65

Farm and Dairy is the leading exponent of dairying in Canada. The great majority of the members of the Canadian Holstein-Priceisan-Association are readers of the paper. Members ot the Association are invited to send items of interest to Holstein breeders for publication in this column.

SALES DATES CLAIMED.

SALES DATES CLAIMED.

SIGN of Holdstein, D. A. McDhee, Crystale Control of the Co

#### HOLSTEIN LEADERS DEAD.

HOLSTEIN LEADERS DEAD.

TWO glants of the Holstein world recouly passed away. G. A. Dinner,
or Kalamasson, Mish., had just returnters of the Holstein-Pin-Beard of directers of the Holstein-Pin-Beard of directers of the Holstein-Pin-Beard of Mircoters of the Holstein-Pin-Beard of Mircoters of the Holstein-Pin-Beard of Mircoters of the Holstein-Pin-Beard of Mircopless of the Holstein-Pin-Beard of MircoBeard of

#### MAY ECHO SYLVIA.

MAY ECHO SYLVIA.

A Lit Helstein breeder se'll be interestde in the fact that Mr. A. C.

Hardy's great cow, "May Echo Byvia."

Hardy's great cow, "May Echo Byvia."

Be unheard of m records in a bree tosee unheard of m records in a bree tosee unheard of m records and a comseer time dry before frashening, and
short time dry before frashening, and
short time dry before frashening, and
stor suffering a severe attack of milk

record of \$84,7 lbs. milk and if thing a

ter in even days. She stands to-day as

"Quest of the hered" for both milk and

ter in even days. Heredy claims, as a

4-year-old, a pheneyear-old, and 7-year-old,

Heredy's asie on May 17, 1916.

Mr. A. C. Marely's asie on May 17, 1916.

My tack for neather page ond Avondale

asie in next week's issue of Farm and

Note: On another page of this issue is

sale in next wooks issue of rarm hau Dairy. On another page of this issue is published an illustration of Lakewiew Rattior as Champion butter cow of the breed in Canada. This illustration was already on the press before Farm and Dairy beard of the new great record of May Echo Sylvia.—Baltico.

## LEADING RECORDS OF HOLSTEIN-FRIESIAN COWS FROM MAR. 16 TO MAR. 31.

Mature Class.

1. Daiey of Burnbrae Parm, 818, 7y, 11m, 12d, 1952, 1bs. milk, 23,8 1bs. fak, 23,8 1bs. fak, 23,8 1bs. fak, 23,6 1bs. butter. D. A. McPhee, Vankek IIII.

13d, 1952, 1bs. milk, 21,8 1bs. fak, 21,8 1bs. fak, 21,8 1bs. butter.

14-day record: 5y, 11m, 14d, 1315,8 1bs. fak, 27,42 1bs. butter.

14-day record: 5y, 11m, 14d, 1315,8 1bs. fak, 25,10 1bs. fak, 21,17 lbs. fak, 25,18 lbs. fak, 21,17 lbs. fak, 25,18 lbs. fak, 21,17 lbs. fax, 25,47 lbs. fax

Senior Four-Year Class.

ils-day record: 4y. 6m. 9d.; 1199.5 lbs. milk, 43.87 lbs. fat, 54.84 lbs. butter. M. J. McKay, Cornwall.

Junior Four-Year Class.

1. Flora Fayne, 21187, 4y, 3m. 10d.; 881.9 lbs. milk, 18.65 lbs. fat, 23.32 lbs.

butter. C. C. Haviland.

2. Froit Betsy Bobbet, 21223, 4y. 4m.
0d.; 486.7 lbs. mik. 17.82 lbs. fat, 22.28
lbs. butter. T. H. Dent & Son, Wood-

Senior Three-Year Class

Junior Three-Year Class. Duchess Bonheur, 23547, 3y. 1m. 12d.; 1 lbs. milk, 11.48 lbs. fat, 14.35 lbs. ter. W. B. Poole, Ingersoll.

Senior Two-Year Class Benier Ywo-Yaar Class,
I. Hill-Creek King Powities Rauword,
30109, 29, 8m, 3d.; 442.1 lbs. milk, 18.19
lbs. fat, 22.74 lbs. butter, 14.4-day record: 39, 8m, 3d.; 916.4 lbs.
milk, 15.18 lbs. fat, 43.94 lbs. butter, 0.
2. Katie Abbekert, Mercena, 23268, 2y,
m, 4d.; 42.28 lbs. milk, 15.60 lbs. fat,
20.76 lbs. butter.
14-day record: 39, 9m, 4d.; 866,4 lbs.

Sm. 461, 42.8 lbs. milk, 16.69 lbs. fax, 20.76 lbs. butch 20.76 lbs. milk, 16.40 lbs. milk, 16.40 lbs. butch 20.76 lbs. butch

Junior Two-Year Class. 1. Daisy Hengerveld Fayne, 30966, 2y, 4m. 5d.; 451.3 lbs. milk, 16.35 lbs. fat, 20.44 lbs. butter.

6m. 5d.; 461.2 lbs. mulz, 18-30 lbs. rav., 204.4 lbs. butter 2.7 dm. 6d.; 875.5 lbs. mulz, 18-30 lbs. butter A. 18-30 lbs. butter A. 18-30 lbs. butter A. 18-30 lbs. butter A. 18-30 lbs. mulz, 18-32 lbs. butter A. 2. Feedja lnka Fountiac, 26779, 27. dm. 8d.; 31.7 lbs. mulz, 18-32 lbs. fat, 19.15 lbs. 43, 19.16 lbs. fat, 19.15 lbs. fat, 19.15 lbs. butter C. C. Havviland, 17-30 lbs. butter C. C. Havviland, 17-30 lbs. butter C. C. Havviland, 18-30 lbs. mulz, 18-30 lbs. fat, 19.15 lbs. butter C. C. Havviland, 18-30 lbs. butter C. C. Havviland, 18-30 lbs. mulz, 18-30 lbs. lbs. butter C. C. Havviland, 18-30 lbs. butter C. C. Havviland, 18-30 lbs. mulz, 18-30 lbs. lbs. butter C. C. Havviland, 18-30 lbs. butter C. C

Special Record Made at Least Eight Months After Calving.

Junior Four-Year Class. 1. Hall-Crest Pontiac Vale 18781, 4y, 1m. 12d.; 397.0 lbs. milk, 14.69 lbs. fat, 18.36 lbs. butter. 14-day record: 4y. 1m. 12d.; 764.4 lbs. milk, 28.77 lbs. fat, 35.96 lbs. butter. G.

14-day records by Im. 12d, 764.4 lbs. milk. 2877 lbs. £da, 53.6 lbs. butterr. G. A. Brethen.

During the last half of March the records of 57 cows and helfers were rescaled of 57 cows and helfers were rescaled by the following the second of Merit. Delay of Burnhres Farm stands first among the mature cows with 24.6 lbs. butter in 7 days. Farm stands first among the mature cows with 24.6 lbs. butter in 7 days. In the 15 course with 24.6 lbs. butter in 7 days. In the 15 course with 24.6 lbs. butter in 7 days. In the 15 course with 25 course wi

WATERLOO HOLSTEIN BREEDERS

WATERLOO HOLSTEIN BREEDERS MEET.

THE second annual meeting of the Waterloo Courty Holstein-Pricials.

Council Chambers, Berlin hald in the April 4, a large representation of breedeneer from throughest the country being the country of the country has been a complete the chair and gave a short talk on the work of the club and the boundary. A motion was desired in the work of the club and the country. A motion was been country. A motion was been country and the country of the country. It was decided to catabilith a central time of the country of the country

Settle the **Silo Question** 

good. Do away with repairs, with tightening of lugs and adjusting of booss. Knew that your silo won't blower. Be sure of perfect slage at all times die won't beginning to be sure to be su



(25)

Fermsucacy and Posspusity! Not the Hellow Tile Base and Sil-They will "Last for Con-

Natco Imperishable Silo
"The Silo that Lasts for Generations"

In bullow, viting the continue of the continue

Company

Nates Sile Wall. Note perforated shell, providing firm anchor-are for meetar loints.

Fire Proofing

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## For fire-safety, inside the home use 'Metallic' Ceiling Plates

YOU can make your home fireproof and more attractive at small cost by using Metallic Ceiling and Wall Plates. Many beautful designs with consices and meuldings for any style of room. You can put them on old walls as easily as new. Weals them or brighten up with paint whenever desired. "Metallic" Ceiling Plates are sanitary, fireproof, inexpensive and good for a life time.

Write for booklet and prices. We manufac-ture all kinds of "Metallic" building materials and sell direct at lowest prices.

Metallic Roofing Co. Limited, Toronto and Winnipeg

address was very interesting, and many volveble suggestions and helpful information were received by those prosent. We have a support of the property of the p

A 37-LB. REPEATER.

Bill.dl Model Johanna 2d has just accomplished a feat higherto credited only to Valdeens Scott 2d, i.e., she butter in 7 days. She has been a most consistent performer, as is shown by the following list of records: at 1 shown by the following list of records:

featowing last of records:

At 7 yr. 10 Butter Maik. Pat.

7 days. Market Maik. Pat.

7 days. Market Maik. Pat.

10 days. Market Maik. Pat.

11 days. Market Market Maik. Pat.

12 days. Market Market





Costa yeu lass than a third the price of a Leather Breast Strap and gives you greater strongth where you need it.

Note the heavy steel alide that Note the heavy steel alide that was the strain and was of the yoke ring—the atrong, hard rope that ensures greater attength.

PER PAIR.

PER PAIR.

WITH STR.

Order a pair from your doaler, or if he doesn't stock them swrite us price of the strain and was priced and the strain a

36 Head



Head

## Pure Bred HOLSTEINS

At WILSONVILLE, ONT., MAY 2

The entite head of show ring and high producing Holizian.

C. C. Kettle will be notd by public anction at Wilsonville on the above data. Included in this offering are several first prise winners at London and Company of the Company of the State of the Company of the

#### LOW BANK'S BULL CALVES

Do you want the blood of World's Champions? Buy a grandson of the World's Greatest Sire "PONTIAC KORNDYKE."

No. 1.—A beauty, perfect in conformation, deep bodied and straight, light in color. Dam, Canada's Champion three-teated cow, "Hester Pictic Wicherland," 30,14 lbs. butter in 7 days. Her first daughter at 2 yrs. J days, 18-48 lbs. Her breeding in the best that can be found in America.

No. 2.—Another beauty, large deep bodied and straight, from a 22.04 lb, dam at 4 years, 3 days. One of the best bred cows ever imported into Canada. Write for prices and particulars.

K. M. DALGLISH,

Low Bank Stock Farm

Kenmore, Ont.

#### Young Holstein Sires For Sale

No. 1—His dam, two of hor sisters and his sire's dam average 31 lbs. butter in seven days. His sister has just finihed a record of 25.40 fbs. butter in seven days—highest two year old record of any own in Canada. No. 2—Son of a 25.66 two year old. Four of her sisters and his sire's m average 100 bbs. milk per day.

Also young sons of King Segis Alcartra Spotford, one ready for service. At reasonable prices. Sell your old herd bull and sectire one of these.

LEAVENS & PURTELLE, Bloomfield, Ont.

#### \_18 HOLSTEIN BULLS

Grandsons of "King Segis Pontiac." "Rag Apple Korndyke 8th." and others.

Dams have milked from 106 lbs. a day down. Aged from 18 months to a few days. Write us to-day if you want a bull.

R. M. HOLTBY R. R. No. 4 PORT PERRY, ONT. PORT PERRY, ONT.

BIRES RELATED TO JEAN ARMOUR We have several fine Pure Bred Ayrshire bulls from one to eighteen niths, closely related to Jean Armour, the Ex-World's Champion, and to present World's Champion, Garclaugh May Misched.

LLIER BROS., (Oxford County), BEACHVILLE, ONT.

COLLIER BROS.

#### -KORNGOLD STOCK AND DAI Y FARM-

Improved English Yorkshires, either sex, all ages. Choice young sows of breeding age.

#### AYRSHIRES

#### PEACH BLOW AYRSHIRES -

Young Stock for sale, always on hand (both sexes), from high-testing seary producers. Good udders and large test 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.

#### SELWOOD AYRSHIRES

Young bulls from R. O. P. dams. One fit for service, two December es. All from dams with sound udders and good teats. Write for breed-

Elgin Co.,

STRAFFORDVILLE, ONT.

#### TANGLEWYLD AYRSHIRES

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

imported and Home-Bred. Are of the choicest breeding, of good type and have been selected for production. THREEE Young Bulls dropped this fall, stred by "Nether Hall Good-time"—36641—Cupp., as well as a few females of various ages, for sells. Write or come and see

J. W. LOGAN, Howick Station, P. Q. (Phone in house). 1-6-1

#### SUNNYSIDE AYRSHIRES

#### Market Review and Forecast

COARSE GRAINS.

COARSE GRANS.
There have been me changes of node in the coarse grain market. Peas are a coarse grain market. No. 2, 42c; No. 2, 15 feed, 41c; No. 2, 42c; No. 2, 15 feed, 12 HAY AND STRAW.

HAY AND STRAW.

Prices on the local market hold firm on the advances of a week ago. Country roads are not yet good enough to facility facts as follows: No. 1 baled hay, \$18 for \$115.50; No. 2, \$14 to \$17; baled stray \$2.00 to \$7. At Montress, No. 2 hay is quoted at \$25 to \$30.50.

Wh	olesalers	are	sell	ivege	to	th	e di	oun	tr
trade									
No. 1	red clos	rer.	cwt.	200	\$26	.00	to	\$28	0
No. 2	do				24	58	to	25	ъ
No. 3	do				24	00	to	-00	ō
No. 1	akike,	owt.			21	00	to	22	
No. 2	do				18	90	to	18	0
No. 3	do						to-	- 00	0
No. 1	alfulfa.	cwt.	***		25	00	to	28	0
No. 2	do	*****			33	00	to	.00	ō
No. 3	do				19	00	to	- 66	0
No. 1	timothy.	. ew	L		12		to.	14	ō
No. 2	do				10	00	to	11	0
No. 3	do				9		to	10	0
	-				- 1	-			

Country prices on eggs vary from 21e to 200 per country prices on eggs vary from 21e to arton, are quoted 25c to 26c. The movement to the trade has been heavy and the results from eccultry points have not been coulds from eccultry points have not been Montreal market fresh eggs are quoted de to 7fc.

 26c to Ffc.
 Live.
 Dreased.

 Poultry—Old fowl, poind
 18c to 20c 2cc
 2cc to 24c

 Old fowl, poind
 18c to 20c 2cc
 2cc to 24c

 do milk-fed
 17c to 20c
 5cc to 26c

 Turkeys
 18c to 26c
 3cc to 38c

 Ducks
 14c to 18c
 18c to 12c

 Geesse
 12c to 18c
 17c to 19c

HIDES AND WOOL Wholesale dealers are paying for country hides as follows: Hides, flat

TORONTO. Monday, april 17.—The cursed, 17c to 175c n.lh.; part cured. No new course become a compared to the curse of the cursed DAIRY PRODUCE.

DAIRY PRODUCE.

DAIRY PRODUCE.

DAIRY PRODUCE.

There are now more cheese factories in opporation, making fodder cheese, than in any previous year, and the same date for the opening date of an average year and such prices will tend to encourage spite of the scarcity of help. On this market, new large cheese are dremy in-d at 10s, and twins. 19ke, to 19ke.

Merchants tell us that butter is a considered and the second of the most prices to merchants. The to 19ke.

Merchants tell us that butter is a service, however, has there been any radical change in questions and for the most prices to meet, the reported assist features. Treat and ordinary dairy prints. For to 19ke heart, 28k to 19ke, and ordinary dairy prints. To the 19ke of 19ke, ordinary dairy prints. To the 19ke of 19ke of

33/96; creamery seconds, 30c to 33/96.

Easter because of the course of the live stock marked as the course of the live stock of

the advances of a week ago.

Trouds are not yet good enough to facility records are not yet good enough to facility records are not yet good enough to facility the second of the second of the yet of

BRANT BREDERS MEET.

Dirtor Ferm and Dairy.—The Braz

Coffice. Heantford, on April 5. The gree

Gent was in the chair, and a goodly num

rew members have been added to the re
since des February meeting. It was de

the february me

April 20, 1916



drops required at an bottle delivered. Describe y and Book 8 K free. AB liniment for mankind. Relayed Glands, Goitze, W. Varicostices, Old Sores. All W. F. YOUNG, P.B.F. \$23 Es

Cure Yo of Caked

Egyptian 8 APPLICATIONS

For Sale Ev Douglas & Co.

PURCHASING 25 years experie Bred stock. Refere on application. R. H. Harding, 7

WANT

Fairmont H

Present offering bull, ready for sere Bessie Banks Merce butter at 2 years. W Peter S. Arbogast, R.R. Ne

Registered H Boveral extra No. 1 for sale, also heafer Our present herd sire Payne," is out of or sire of World's Recor-derne Holinger Fina for prices or come a John M. Montle, Sta

HOTEL CARLS-RITE

AND PRESERVARY AND TO THE PROPERTY OF THE PROP

Four-year-Old Class.

Snowinke of Cilewrood, 43549; 13541
be mild of the Company of the Company

Redhila Gay Laus 25775: 10983 bbs. null. 485 lbs. fat. 4.44% fat. 333 days. L R. Neas, Howick, Que. 10220 lbs. milk. 481 lbs. fat. 34185: 10220 lbs. milk. 481 lbs. fat. 75 days. Jos. Tompson, Sardis, Ed. 368 days. Jos. Grace of Fornbrook, 39835: 9310 lbs.

SELDOM SEE a big knee like this, but your horse may have a bunch or bruise on his Ankle, Hock, Stifle, Knee or Throat.

Ankle, Hock, Stiffe, Knee or Throat.

A BSO ASINE

TRADE MARK AGGLES ALTOPE

will clean it off without laying the
horse up. No blister, no hair

gorge Concentrated—only a few

drop style. Concentrated—only a few

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as an application. \$2 per

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## Cure Your Cows of Caked Udders

Egyptian Liniment

8 APPLICATIONS GUARANTEED For Sale Everywhere. Write for FREE Sample Douglas & Co., Mfs. Napanes

PURCHASING AGENT.

15 years experience with Pure
Bred stock. References and terms
on application.
R. H. Harding, Thorndale, Ont.

WANTED

Young Holstein Bull, fit for service. Must be bred right for but-ter production. Reasonable price. Nell McMurchy, R.R. 1, King, Ont.

Fairmont Holsteins-

Present offering a fine young bull, ready for service, stred by Ourvilla Siz Teake Colantha; dam, Bessie Banks Mercena, 16.28 lbs. at 2 years. Write to-day Peter S. Arbogast, R.R. No. 2, Mitchell, Ont.

Registered Holsteins -

Soveral extra No. 1 yearling bulls for aile, also hesforn and cows. Our present here dire, "Echo Segis Fayne," is out of own brother to sire of 'torid's Record Cow, "Finderne Hollinger Fayne," Write for prices or come and see them. John M. Montle, Stanstead, Que.

TWO NEW AYRSHIRE RECORDS

This sentor four-year-old, August Lasand Common of the Common Beat of the Common Beat of the Common Beat of the Common Beat of C

BANKER AND FARMER.

BANKER AND FARMER.

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FARMERS' CLUB

Correspondence Invited.

ONTARIO

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GABLEGUIDE, April 6.—Our winter from
New Years's April 6.—Our winter from
New Years's April 6.—Our winter from
New Years's April 6.—Our winter, but
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BRITISH COLUMBIA

DRI IISH COLUMBIA
NEW WESTMINSTER CO., B. G.
CHILLATVACK, April T.—Farmors are
New York of the Columbia
The grass is growing, but not any too
About April is if their you want to any too
light in perfect the columbia
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Dispersion Sale of 90 HEAD

HEAD

## PURE BRED HOLSTEINS

PHILIPSVILLE, MAY 3rd, 1916

The greatest chance of a lifetime to a The greatest chance of a lifetime to secure some of the high testing od of Pet Posch DeKol at your own price. Every animal is the herd blood of rot Posen Dahor at your own press. Every annual will be sold, absolutely without reserve.

The females are nearly all tested and their records range from 18.78 lbs. butter to 30.61 lbs. in seven days.

ibs. butter to 20.61 bbs. in seven days.

Gypsy Gueen Rhoda, the 20.61 lb. cow in this sale is a splendid individual and her bull out ten months old, sired by a grandson of Pietle Korndyke Lad, is a dandy—row will like him. Another nice young bull is sired by a son of Bag Apple Korndyke Sth and out of a 25 lbs. 3-year-old daughter plette Korndyke. Lad. Every female in this herd but six is under eight years of age. Twenty-six are two years of this property.

Terms of sale:—4 months credit on approved notes at 6 per cent.

All trains met at Brockville Junct. and Phillipsville station on day of

H. W. IMERSON, Auctioneer. W. C. STEVENS, Prop

Private Sale of 44 Head

of pure bred H. F. cows, helfers and caives. Fourteen cows have freshened to date-six cows and seven helfers are due to freshen this spring. The others are sparlings, and calves all females. The herd of the late J. W. Johnson. For further particulars write

R. R. No. 2

PARKHILL, ONT.

WRITE QUICK FOR A BARGAIN

TWO-YEAR-OLD BUILL from a helfer with 91.35 lbs. butter in 30 days R.O.M. as a two-year-old. One bull 15 months old. Also some choice young R.O.M. as a two-year-old. One bull 19 months old. Also some choice young females and a couple of bull claves for sale. These are all from dams with high official records. They are going at a bargain. Our aix months old bull has been sold. If you want one of the remainder, write quick.

W. J. BAILEY, Lyndenwood Farm, Jarvis, Ontario

Pure Bred Holstein Bull Calf For Sale

Sired by May Echo Champion, full brother of May Echo Sylvia. Misk and an an sire's two full brother of May Echo Sylvia. Misk dam and sire's two full or educa. This caller dam, after dam, after a dam, after six in incidy maried and a green dispersion. Free, \$75.00, delivered to any station in Contacto. PINE GROVE, ONT.

AVONDALE HOLSTEIN BULLS-

SIX BULLS 5 to 12 months from high record dams and sired by our KING PONTIAC and PIETJE (13.60 lb. dam) bulls W. and the plant of the p

H. LYNN, Avondale Farm, R.R. No. 3, BROCKVILLE, Ont.

LAKEVIEW STOCK FARM, BRONTE, ONT. Breeders of high offer for sale Choics Young Built or various ages, all sons or Grand-sons of ter. latest Can. Cham. 20 dy., butter com 2 yr. old daughter of Lakeview Rathous Can. Cham. 20 dy., butter com 2 yr. old daughter of Lakeview Rathous L. Dutch. Artis. Can. Champ. 3 yr. old butter cow (Rath Bab. Butter of Can. Cham. Cham.

T. A. DAWSON, Manager.

SIRED BY BURNSIDE HENGERVELD KORNDYKE

We have several fine young bull calves from the above great sir We have several time young to take 1721 the accret great are, whose dam gave 30.125 lbs. milk in 9 months and 26 days; 110% lbs. in 1 day, and 27.60 lbs. butter in 7 days. If you need a young sire with such rare backing, write me. Satisfaction guaranteed—and priced at only \$25.00 for early sale. JAMES MOORE R. R. No. 1, ALMONTE, ONT.

SIRES FROM CRESCENT RIDGE

No. 1.—Horn October 15 hast, headed by official records for four general 15,000 as a Sr. store 5,115 has ralk as her first year, and promises the 15,000 as a Sr. store 5,115 has ralk as her first year, and promises the 15,000 as a Sr. store 5,115 has ralk as he first year, and promises the 15,000 as a Sr. store 5,115 has ralk as he first year, and of our special former head airc, store 15,000 as a Sr. store 15,000 and of the store 15,000 and 15,000 and

Roadster \$825



## so now there's no need to sacrifice pride to economy

This Overland costs only \$850.
But it is every lach an Overland—a perfect beauty.
Though a small, light, economical car, it is roomy,
sturdy and powerful

And it is absolutely complete to the last detail.

Never before has a stylish, comfortable, completely
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Now for the first time, exacting pride and strictest economy are fully satisfied in one and the same car. And for easy riding this newest Overland is not to be compared with any other car of its size. In fact, many a big, high-priced car is nowhere near so easy riding.

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It has cantilever rear springs which absorb road shocks more perfectly than any other type.

Large fourth tires add to its easy riding qualities.

And the seats are soft and deep and built up over long spiral springs.

The seats are also broad and wide—ample in their roominess for five full grown people.

Of course it is electrically lighted and started and the electrical control switches are located on the steering column—right at your hand.

You should have a car this appring—And if you want top class at bottom price, it must be this Overland, for no other car meets both these recitemants.

No wonder it has swept the country—the biggest and quickest success of all our long line of record making

But one thousand care a day is the present limit of

our production than double the capacity of any other producer of care of this size and class. But the demand is in proportion to the excess value

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