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NUMBER 5

# RURALHOME

PETERBORO, ONT.

FEBRUARY 2.

1911.



THE SWIMMING IS FINE. COME ON IN. POULTRY PAYS!

Does any branch of your poultry fall to pay? Do your ducks eat their heads off? Others make them pay. So can you. Turn the searchlight on your poultry department. It should pay. It should give returns far and beyond what is possible of any other department of the farm. Poultry keeping is a business of details, a business of small things, ance of this to make a success of poultry the great responsibility rests with the attendant. If all is well in this particular, then one may pass on to a consideration of feeds, b reeds, housing and general management.

DEVOTED TO

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POULTRY NUMBER

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# SIX POINTS



When buying a Cream Separator, you want the best you can buy. A poor Separator, instead of making money for you, will lose money. might as well use the old milk pans as a poor separator. A good separator will not make as much money for you as the best will. Read some of the reasons why the Link Blade Separator is the best on the market:

- I .- INCREASED CAPACITY .- The Link Blade device. has an increased capacity of from 30 to 50 per cent. over the most efficient of previous devices, combined with very clean skimming, under a wide range of conditions.
- 2.-EASY TO CLEAN.-The blades do not come apart, and so can be washed and handled all in one piece.
- 3.-NEVER GETS LOOSE.-The device is expansible and fits the bowl snugly. It can never become loose or shift in the bowl, and throw it out of balance.
- -NO STRAIN .- The pressure is distributed through a series of brass rivets, so there is no strain on the blades themselves.
- 5 .- EASY TO TURN .- Being more efficient, it is lighter and smaller in order to do the same amount of work, and is accordingly easier to handle.
- 6 .-- WILL NEVER CLOG .- When making a long run, the deposit of sediment on the inner wall of the bowl will never clog or choke off the supply of milk. Link Blade machines have run for three or four hours continuously, and the test of the skim milk showed as close skimming at the end as at the beginning of

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A Few Good Agents Wanted

#### Cooperative Marketing Increases Production

A. P. Hillhouse, Brome Co., Que.
Profitable marketing increases production. This rule applies to all
lines of business. And the business
of farming is no exception to the
rule. When the farmer finds that he rule. When the farmer finds that he is marketing any particular line of products mere profitably than another he at once sets about to increase his production in that particular line. Cooperation in the narketing of farm products in almost every instance where we have seen it established, brings about this condition of profitable marketing with increased. profitable marketing with increased

How does ecoperation bring better ofits in marketing? In the first profits in marketing? place it does away with the excessive profits of the middlemen. Cooperadoes not do away with ordinary r legitimate profits, which right-fully and honestly belong to some middleman for his labor and enterprise in handling these products. It requires about what the middleman's profits would be in expenses to run a cooperative organization successfully. It places the key of the situation, however, in the hands of the producers, enables them to prevent anyone stepping in between them, and the consumer setting a price on their products, and reaping all the benefit from their hard laber.

COOPERATION IMPROVES THE QUALITY The chief factor towards making cooperative marketing more able is that it is impossible for a cooperative organization or individ-ual in the organization not to very soon realize the importance and in-creased value of a superior quality. A cooperative organization run the grading system in marketing, proves to be an educational school to every member, since all aim to produce as large a percentage as pes-sible of the highest grade of selected products in order that they may realize the best and most profitable

A good feature in the system is that while it increases the price and profits to the producers, it does not increase but rather decreases the cost to the consumer. The consumer does not pay for any half spoiled or worthless products, as is the case with the prolonged and slack methods of individual marketing.

INSTANCES OF INCREASED PRODUCTION

We could quote many instances of the increased and more profitable production resulting from the prac-tise of cocperation that has come un-der our notice in our locality. We will mention just one or two as ex-

amples

A neighboring family was keeping about 12 or 15 hens, that probably were a mixture of almost everything in the chicken line. These hens were in the chicken line. These nens were not receiving any special care or at-tention, but practically had to look after and feed themselves. The result was that there was fully five months in the year that our neighbors did not get an egg. They did not raise nct get an egg. int get an egg. They did not raise int chickens worth mentioning, only brood or two every three or four years to renew the flock.

Finally through the influence of another neighbor, who was marketing through our society, they bought a few settings of White Wyandotte eggs, and in the fall they killed off all their old stock, keeping only the pure bred pullets. From this on pure bred pullets. From this on there was a rapid change for the better. Their birds have received the best of care, and they are now keep-ing a flock of 40 pure bred Wyan-

They now never miss a week dur-ing the entire year in bringing us a consignment of eggs. They hatch all their chickens early. We sold their surplus cockerels for them (80 in

number) for broilers when weighing number) for broilers when weighing one pound each, paying them 40 cents a peund. Their surplus pullets are all sold for breeding purposes at good prices. They now consider the poultry end by far the most profit-able brarch of their farm. Another farmer who five years back was only keeping 10 or 12 heas in much the same way as the people before mentioned, now has a flock of 150 laying bens. He briggs in the people head.

iou laying nens. He brings in all his eggs and chickens weekly. The smallest weekly cheque he has re-ceived during the past year was \$5.15; the largest \$25.80. He also now considers the poultry branch the most profitable branch of his farming operations.

#### Please the Consumer

"But the egg is just as good as any other egg," said an indignant lady in Peterboro Co., Ont., to Mr. J. I. Brown, the organizer of the local egg circles, who had just criticised an egg, which was quite rough shelled. "Yes," said Mr. Brown, "that egg is just as good to eat as any other egg. You know it and I know it, but the con-

sumer does not.

"But these eggs are all going to Montreal, and I will venture to say that half of the eggs that are used in Montreal are used by consumers tho were never on the farm, and hardly know how eggs are produced. To them a rough shelled egg is a bad egg, and it is the consumer that we have

In marketing either eggs or poultry, the endeavour should be to put up a class of eggs that will please the conclass of eggs that win please the con-sumer. Eggs of all colors and sizes, packed loosely in a basket may be just as fresh and just as good to cat as eggs graded as to color and size and packed attractively in compartment boxes, but as Mr. Brown said, the customer does not look at it in that way. Those of us who are willing to please the customer are the ones who will get the extra price.

#### Pertinent Poultry Pointers

J.V.Jackson, Westmoreland Co., N.B. Don't think that you can send one of your children out with a can of corn in the morning and then go out at night and gather a basketful of

Feed at regular hours. Feed at regular nours.

Don't expect the hens to get all they want to drink out of ditches and wayside puddles. Give the plenty of fresh clean water.

See to it that they have plenty of grit, oyster shell, etc., before them all the time.

Don't think because you don't see any lice running around that your flock is clean. These parasites don't nock is clean. These parasites don't run around showing themselves. They are like some people. They live in darkness rather than light because their deeds are evil. Use insect pow-der or a good liquid poison once in a while

Don't leave your dropping boa only to be cleaned off every spring and fall; clean them at least two or three times a week.

Don't make the mistake of think-ing that all you have to do is buy a few hens and your fortune is assured without any trouble to you. Don't make the mistake of think-

ing there is nothing in the poultry business either. There is lots of pleasure in it,—also lots of work; and good money too, if it is properly handled.

Breeding Counts.—A hen at the Ontario Agricultural College has this winter laid 68 eggs consecutively one each day for 68 days. She then rested a few days and started at it again. She was housed in a fresh air house and is an insignificant appearing Barred Plymouth Rock pullet. She is out of a strain that is bred to lay.

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FOR WEEK ENDING FEBRUARY 2, 1911

No. 5

#### STRAIN AS A FACTOR IN WINTER EGG PRODUCTION

Remarkable differences exist in individual hens of the same breed. Any hen will not always lay. Breeding counts for much. Some interesting results from experiments conducted by Prof. W. R. Graham in the poultry department of the Ontario Agricultural College,

WO pens contain 24 hens each. The one pen produced over 500 eggs more than the other this present season before January 1st. The eggs were sold at 48c a dozen. The hens, or perhaps we should say pullets, were all hatched the last of April. All ran together in the same yard, fed on the same feed from the same trough and in every way received the same attention until the laying pens were made up late in September. What made the difference?

TWO STRAINS OF SAME BREED

These birds were all Barred Plymouth Rocks. There was a difference in strain. The pullets in one pen were bred from exhibition stock, birds that were nicely shaped, nicely colored-a strain that had been bred for years for the production of nice looking cockerels. The pullets in the other pen were all from stock that for years has been bred to lay. In connection with them it is known how many eggs their mothers, their grand-mothers

and their great-grand-mothers laid during 12 months, and it is also known during what part of the year they laid these eggs. The birds referred to are at the Poultry Department of the Ontario Agricultural College. The results secured from them show the remarkable possibilities of the influence of strain, or breeding, on winter egg production.

Professor Graham, head of the Poultry Department at the College, early last month when called on by an editor of Farm and Dairy, explained in detail the breeding of the pullets in these two pens and produced records to show the results that he had obtained. According to the Professor's experience, there are five months-October, November, December, January and February-when eggs are most difficult to produce. These he terms the five winter months. Of the other seven, or the summer months, March, April and May are the

three months of best production. THE HIGH STANDARD SET

The individuals of this bred-to-lay strain must measure up to a very high standard. The pullets tested the first year must lay at least 150 eggs each before they are considered at all. The next qualification is for size. They must measure up to a certain standard here. Their eggs are hatched by the natural means and 90 per cent. of the fertile eggs are required to hatch. Ninety per cent. of these, barring accidents, must live

The cockerels from these pullets must obtain a weight of six pounds, or better, when five months old, and be developed ready for breeding at that age. Before these cockerels may be used the laying power of their sisters is ascertained. This is gauged on their performance between the first of October and the first of December or January 1,

JEWELS OF RARE LAYING ABILITY

When the birds are subjected to such a test, there are few indeed that will make the grade. Those that do reach it, however, are jewels of rare laying ability, and Professor Graham has records to show that one of these bred-to-lay pullets laid 68 eggs consecutively. Several others each laid 40 eggs consecutively and many of them laid more eggs before the first of January than the average hen will lay during the whole year.

It would be an impracticable proposition for the average farmer to attempt to develop a strain of layers along such a fine and rigid standard as Professor Graham has laid down for his select

eat the most. This is not so. The pen of pullets which was so far outstripped by the bred-to-lay pullets ate several pounds more of both dry mash and grain.

It should not be taken from the facts as here given that the strain or breed of hens is the only factor in egg production. The attendant, or the one who cares for the flock, is one of the greatest factors. Then, in addition to strain or breed, there must come proper feed and the proper housing. Like any other farm stock, hens before they can give a satisfactory account of themselves must have feed. And the sooner the general farming populace get over the idea that all the feed a hen needs is what she can steal, in addition to the wind and water that comes her way in the natural course of things, the sooner we will get After this revolution has been brought about, egg production, through developing of special bred-to-lay strains of the various breeds, in the light of the facts as set forth in this article can still greatly be increased.-C. C. N.

#### The Management of Hens J. T. Doope, Huron Co., Ont.

It is a pretty safe guess that if a hen lays well

as a pullet she will also lay well as a year old. More certain is it that if a hen as a pullet does not lay well, she never will. Years ago I learned this fact from observation and hard experience. I then placed myself in a fair way to make my poultry pay.

Since learning this point I have never kept my hens over the second season if I could at all avoid it. The pullets are the money makers from egg production. The year old hens are a close second. After they pass their second season they rarely if ever are worth their keep. Even supposing they are worth keeping, they are but taking the place of the more profitable younger stock, which one might keep with the same expense for feed and

I aim always to make a selection of from six to ten pullets that so far as I can estimate have all laid well. These I mark, and the fol-

lowing year set aside for a breeding pen. From their eggs I hatch my general stock, I find it possible to greatly improve my stock from year to year by managing them in this way, rather than as I used to do, and as so many even yet do, select eggs from the general laying stock. An egg may be an egg, but it will not always hatch a chicken. The chicken that may hatch, if from indifferent stock, will give as indifferent account of itself later on as its owner will have to do for the indifferent manner in which he has managed the breeding end of his poultry.

I find it pays to keep the pullets and the year old hens separate. The feed that is sufficient for hens is not enough for pullets. If fed together the hens become too fat.



Some Profit-Making, Labor-Saving Auxiliaries to the Farm Poultry Plant

Some Profit-Making, Labor-Saving Auxiliaries to the Farm Poultry Plant
Farm poultry If given free range and the young stock handled with the labor
saving, equipment here shown will give a splendld account of itself and be of
little trouble compared to the old-fashioned way of managing the growing chicklittle trouble compared to the old-fashioned way of managing the growing chicklittle trouble compared to the old-fashioned way of managing the growing chickjust of the proving the growing that the proving the growing that growing the gro

laying strain at the College. The standard as given, however, is an ideal worth striving after. and one could require say that a pullet lay at least 40 eggs before Christmas time. Such a pullet (or pullets) must be of a hardy, bred-tolay strain and be of a quick maturing sort, else she will never lay that many eggs early in the season. The individuals of Professor Graham's bred-to-lay strain are fully six weeks earlier in maturing than are the individuals of his exhibition, or "form-and-feathers." strain.

MORE EGGS ON LESS FOOD

An interesting point has developed from the feed records kept by Professor Graham in connection with these two pens. One would naturally expect that the hens that laid the most would

#### How to Produce Ducks Profitably

J. W. Clark, Brant Co., Ont.

The marketing of chickens as broilers, at the end of 10 or 12 weeks, has seldom proved profitable. To so market ducks, however, is the only way in which they will prove very profitable.

The fertility of duck eggs early in the season is much better than in hen eggs, and the mortality from the early stock is far Duckless. lings are comparativelyeasy to raise, since they require very little heat after the first

few days.
For marketing purposes,
the Pekin vaiety is probably the best.
The Pekin duck has a
broad breast,
a long keel,
and when

dressed presents a plump and pleasing appearance.

We hatch our first ducks about March 1st. Some poultry men in the United States hatch as early as January, but in Canada there is little demand 'for troilers so early in the year, and it is not the natural season for ducks to lay. The first few days, the ducklings are kept in a heated brooder, but after that no heat is necessary. They should always have plenty of fresh air, however, if they are to do well.

PROVIDE SOFT FOOD

Ducks require soft feed. A mash composed of low grade flcur, corn meal and ground oats with the hulls sifted out makes a good mash. first the corn meal in the food should be limited, and the amount increased as the ducks get older. A large amount of animal food is required by the ducklings. To mix the mash with milk takes the place of beef meal to some extent, but not altogether. Beef meal should be added to the mash. Sprouted grain, alfalfa leaves or finely pulped mangels and cabbage mixed in the mash will supply the green food of which also ducks require a large amount. This same mash is fed from the time the ducklings are hatched until they are dressed for market. The portion of beef scraps and corn meal is increased, however, as they get older.

The crop of the duck is small compared with that of the chicken and they must be fed four times a day. Feed must not remain in the troughs from one time to another. Give just what they will eat up clean, and if any is left over from one feeding reduce the quantity to be fed next time.

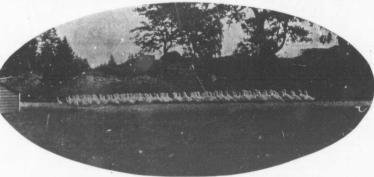
LIMITED AND UNWATERED RANGE

Do not put water where they can get into it. It does not do the ducks any good to be mussing in water all the time. If the feathers are to be saved they may be allowed to have a swim before killing to clean them off. As feathers are worth 50 or 60 cents a pound this is an important item. Do not give much range. Ducks will stand quite close confinement if they have abundance of green food and fresh air.

A point to bear in mind in raising ducks is that they are timid. Do not go around the ducks at night with a light. They will crowd together and many will be injured or smothered.

MARKET AT 10 WEEKS

It is not profitable to feed ducklings ever 12 weeks. To market when too old is the most common mistake made by duck raisers. The proper time to market is just as seon as they



Duck Raising can be made one of the Most Profitable Branches of Poultry Farming
ery advantage needs to be taken of the natural propensity of the duck to consume food in large quantities.
They are most profitable when forced along and sed early in the season when 10 weeks of age. Feed
given to them after they have reached this age, except they are to be kept for breeding purposes, is worse than thrown away.

get their first feathers. If they are left even a few days after this, the pin feathers will start, making it very difficult to dress them attractively. In most cases, 10 weeks is the ideal age for marketing ducks.

It will pay the poultryman to ship ducks dressed rather than alive. There is a large mortality in shipping ducks alive due to their timidity. When not killed, they are bruised and injured to a great extent. When properly fed and cared fer and marketed at the right



A Type of So-called Egg Breeds
The White Leghorn and other breeds of its class
have many champions. Farmer poultrymen when
making their choice should remember that egg production is more a matter of atrain than of breed.

age, ducks are extremely profitable and one of the easiest fowls to care for that the farmer can raise.

To be successful in raising chickens, it is necessary to have healthy and vigorous breeding stock. The lack of vigor in the newly hatched chicks is often traceable to weak parents.—Mrs. John Rosebrugh, Brant Co., Ont.

One of the first rules in the poultry yard should be to have only strong, vigorous birds. Without such it is utterly impossible to succeed with poultry.—C. W. Hurst, Carleton Co., N.B.

What Cooperation will do for Farmers Prof. F. C. Elford, Macdonald College, Que.

Coperation in producing and marketing poultry products is of great material benefit to those who engage therein. A first essential of cooperation is honesty. The lack of this has

been responsible for many a failure. Honesty alone would work a revolution in the poultry business. it is, the dishonest producer and the dishonest seller can kill more customers in one day than 100 honest dealers can make.

When one buys eggs, there is much that is taken for granted. The average consumer believes that the eggs are fresh

and knows the difference, or rather that they are bad, only when they are broken—it may be on the breakfast table.

#### EFFECT OF ONE BAD EGG

One tad egg may result in a decreased consumption of many eggs. As poultry preducers we cannot afford to have one customer less, nor one egg less eaten. The more eggs that are consumed, the better it is for us who produce them

The one way to increase the consumption of eggs and poultry products is to supply everything to the ultimate consumer in the most appetizing and attractive condition. Through cooperation we can do this. Cooperation will bring about a greater production. The products will be of a higher standard and this will crowd the products of an inferior quality off the market, and in the case of poultry products, when the day arrives consumers may get what they pay for. Prices need not be higher to the consumer. They will, however, be better for the producer; in other words, the margin between the price te the producer and the price to the consumer will be greatly lessened.

#### BEST PRICES FOR UNIFORM PRODUCTS

The best prices can be secured only for products of a uniform grade. Cooperation among poultry producers will tend to bring about the desirable uniformity in production. Instead of having all kinds of breeds on the one farm, as is now so commen, every farm in the community will have but one breed and these for the most part will be all of the same breed. The dressed poultry and the eggs that will come from a community of that kind will be of uniform appearance. Buyers will know that they can go to such a place and get large quantities of uniformly good stuff.

There are many ways that cooperation in connection with the poultry industry will be of a material meney benefit to farmers who produce poultry and poultry products. The money gain, however, is only one side of the question. The gain in other ways is of even greater importance. Cooperation broadens the men who cooperate. It brings them into touch with bigger things and with better men.

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#### Factors in Artificial Incubation

W. H. Elford, Peterboro Co., Ont. Other than good hatchable eggs, temperature and meisture are the two most important fac-

tors that influence the hatch in artificial incubation The control of these two factors to a very large extent determines the success or non-success which we can have with the incubator. It is essential that we have strong, healthy parent stock. Chickens from weak stock cannot even break the shell.

The age of the egg when put in the incubator, other things being equal, determines the number of days it will take to hatch. An even hatch, therefore, is induced by using eggs of uniform freshness. Hence it is well to have all of the eggs put in the incubator laid at about the same time. Before starting the machine it should be thoroughly scrubbed out with zenoleum. At the time of hatch there are always eggs in which are dead chickens, and if the incubators are not disinfected thoroughly these germs will be left in the machine, and will spread disease to all successive broods.

START AT 103 DEGREES

Start the machine at 103 degrees and keep this temperature until the animal heat of the chickens raises it two or three degrees. One need not worry about the temperature going up at the last. The chickens require this extra heat. It is easier to kill a chicken by cooking than by cooling; so in our efforts to keep the machine up to the proper temperature, we should not risk running it too high, particularly in the early stages of incubation.

Moisture is necessary in the incubator to keep the shell of the egg from getting too hard. Were there no moisture in the machine, none but the very strongest chickens would be able to break the shell. Some machines have no moisture pans. Mcisture can be supplied in this case by putting a pan of water under the machine or better under the lamp. A wet sponge put right in the machine serves the same purpose. It is just as well, however, to get a machine with a moisture pan. The sand tray affords the best method of controlling the moisture as it holds moisture tetter, and in case the atmosphere is too dry, lets it off faster. A sprinkling of zenoleum in the sand tray will keep the air sweet and kill all disease germs.

When the machine is closed up on the 19th day, the sand tray can be taken out and a nursery tray put in its place. The objection to the chickens going down into the nursery tray is that the temperature is lower in the tray than on the egg shelf. I consider it a good plan to put in a slat at the front to keep the chickens on the shelf in an even temperature. The chickens can then be left on the shelf until moved into the brooder.

TURNING AND COOLING Eggs on the first day put into the machine need not be disturbed. From the second day to the fifth the eggs should be turned morning and evening, but not cooled. On the fifth day, they can be cooled for five minutes. The period of cooling should gradually be increased to 10 minutes on the 11th and to 13 minutes on the 13th day. On the 16th day, they can be cooled 15 minutes, and on the 18th day, 20 minutes. On the 19th day cool the eggs for five minutes, and then close up the

machine until the end of the hatch. The chickens should all be out on the 22nd day.

On the 7th day it has been my rule to test out all infertile eggs. On the 14th day, the eggs are tested again and all those having dead germs are removed.

Some High Prices .- Those who are accustomed to pay not over \$1 or \$2 per bird fer breeding stock will find it difficult to fully com-



A Good Type of a Generally Favorite Breed

Before you choose elsewhere remember that a breed, which is generally common as is the Barred Plymouth Bock, must have sterling qualities to enable it to maintain its proud and premier position.

prehend the splendid prices some American buyers pay for choice exhibition stock. Mr. J. W. Clark, cf Brant Co., Ont., a well known poultry man and Institute lecturer, has sold individuals from his flock of Buff Orpingtons to American buyers at \$100 a piece. Since the Toronto Exhibition, 1910, up to the end of that year, Mr. Clark sold over \$1,700 worth of breeding stock.

The average farm has either an orchard or a corn field or waste piece of land on which they can run these colony houses during the summer months. Even a stubble field or a root field will suit the purpose very well, and the possibility of giving new soil to the poultry each year will do away with the danger of disease.-John I. Brown, Poultry Specialist, Montreal.

#### Setting and Care of Brood Hens

Chas. G. Golding, East Assa., Sask.

We are often asked why we have such good "luck" hatching with hens; why we never have hens breaking eggs and leaving the nest. The easiest thing in the world to do is to set a henif she wants to set. The following is our plan: During the winter one pen of our poultry house is set aside for the male birds. In the hatching season this pen is used for the setting hens. We place our nests right on the floor, side by side with the walls of the pen. Each nest has two sides, a top and a back. A six inch strip in front keeps eggs and nesting material in place. There is no bottom to the nest. It, therefore, rests right on the ground where it should be. Did you ever see a hen make her nest in a tree? Well, always try and follow nature

#### SETTING THE HEN

We shape the soil under the nest so as to be slightly hollow. Enough soft hay is put in to make a comfortable, warm nest. In this we place two eggs, generally china ones or infertile ones. but never a full setting. At night we carefully lift biddy off the nest she has chosen and place her on the one we had chosen, at the same time dusting her well with insect powder and sprinkling a little in the nest. We place a board in front of the nest and go to bed.

If the hen is quiet next day we do not disturb her or uncover her till evening. If she is not quiet we let her go. She is no good for that job. Even if she is quiet it is too soon to give her the eggs. The next day she should leave the nest to feed, and return of her own accord. She will do so it you cover all the nests but the one you want her to sit on. Sometimes she decides to ramble about and not go on the nest till evening. Do not give her eggs yet. If she goes on at night she will likely stay, if not throw her out But if she takes to her nest all right, it is safe to give her the

#### SEPARATE INFERTILE EGGS

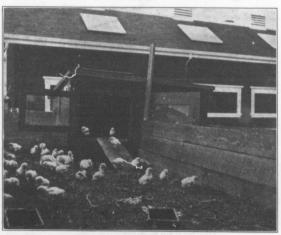
On the 10th day, not later, test out any infertile eggs, and keep them to feed the chicks. Eggs are grand feed for little chicks. If the weather is dry, moisten the eggs and nest about the 19th day, unless the hen can get outside. Even then it is a good practice, as it helps the chicks to get out.

#### DUSTING FOR LICE

On the 10th and 11th days dust biddy for lice. No, it is not too much trouble. You will raise more chickens if you give them a good start, and, anyway, if you want "good luck," you must make it.

While the hen is setting provide her with a hopper of whole grain (we prefer mixed oats and wheat) and a pan of water. Leave the middle of the pen bare and dry so she can roll in the dust. Twice a week give a mash of bran or even rolled oats and any vegetables you may have. Be sure and do not give feed that is wet. Diarrhoea is induced by feeding too wet feed, or too many vegetables. When the eggs pip, put the board in front of nest again and keep the hen on the nest till the hatch is

These simple instructions if followed will result in good luck with your setting hens, even it you have a number together. We have 21 sitting in a pen eight by 16 feet, and they never fight or take each other's nests.



Incubator Chicks Nursed by a Wooden Foster Mother coop as here shown is fitted with a round or Universal hover under which the chicks are brooded. This type of brooder has many advantages peculiarly its own and may be fitted to any box or colony poultry house.

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#### Artificial Incubation Preferred

Geo. Paxman, Peterboro Co., Ont.

Artificial incubation and artificial broeding of chickens are two points on which men have improved on nature's methods. Any farmer who intends to raise 100 or more chickens cught to invest in an incubator. There should be no question about inability to run a machine. Any child can run an incubator. A 120 egg machine is about the ideal fer the general farmer.

Objection is sometimes taken to the incubator on the ground that it will not hatch a normal chicken and that incubator chickens are very subject to white diarrhoea. I have never had white diarrhoea with incubator chickens, and I have used incubators for many years.

I start up the incubator and allow it to run half a day to a day to make sure that it is in good running order and that it keeps a steady temperature. A temperature of 103 degrees is kept right through the hatch until the last few days, when it will ge higher. The controlling of the temperature depends almost altogether on the machine. With a reliable incubator one need not look at the thermometer more than twice a day. The lamp should be filled and retrimmed once each day.

The ecoling and turning of the eggs is a most important point in getting a good hatch. Most people are afraid to cool enough. It is my experience that after the 10th day, you cannot kill a chicken Ly cocling. Watch a hen for advice in that particular. For the first few days she will stay on the nest steadily. But after the 10th day, she will go off and stay until the eggs are quite cool.

Long cooling gives stronger, healthier chickcans. At one time, I tock the eggs out of the incubator early in the morning and forgot them until after nine o'clock. I went back and put them in and had a good hatch. Of course, the time which the eggs are to be left exposed will vary with the temperature of the room. In a fairly cool room they might be left out for 15 minutes. Turn and cool the eggs twice a day until the first one is pipped, which will be on the 19th or 20th day. Then close up the machine and leave it.

Do not be afraid of the temperature getting too high towards the last. Many poultry men turn the light down until it is almost out for fear of getting too high a temperature. Let the temperature go up until the regular lowers it again. Testing out all infertile eggs or dead germs is an important point. I test all the eggs on the fourth day and keep testing regularly, a few every day, taking out all infertile ones.

#### How to Manage Geese

John Young, Huron Co., Ont.

An orchard is the ideal place in which to keep

geese, and for the breeding flock a good creek is necessary for best results. I keep Toulouse



A Madison Square Garden Winner

The ideal in type and feathers for a top notcher Barred Plymouth Rock pullet in here shown.

geese, have four geese and a gander, and raise 50 to 60 gcslings each year.

During the winter, we feed our geese on grain once a day, with apples or mangels for green food. As the laying season approaches, geese abould be fed twice a day. The eggs are gathered before they get chilled, set on their ends, and turned every ether day.

When the goose is setting, she should be taken off the nest every second morning to feed. At least once a week, the eggs should be sprinkled with water.

For the first six weeks the goslings should be well fed. From that time cn, they will hunt their own living. Goslings which are very weak should be fed a little cream and bread for the first week.



The Goose Asks but Few Favors and Little Help to Rear Her Flock

Green, after being fairly started for the first two weeks as goslings, will live and thrive on pasture grant to sook next to nothing directly to rear them to work the sook of the control of the control

### Some Pointers on Artificial Brooding N. C. Campbell, Brant Co., Ont.

To hatch eggs is comparatively easy. "Any hen can hatch a chicken, but it takes a good one to raise it." The difficulty is to get the chickens over the first two weeks. I leave them 24 to 36 hours in the incubator. They are then removed to the brooder, on the floor of which is and and hay loft chaff. The grit they pick from the sand is their first food. It is most unwise to take the chickens out of the incubator immediately they are hatched and feed them a lct of soft food.

Shortly after the chicks are placed in the brooder, I give them their first feed; it is dry bread crumbs, or a corn-meal cake made with milk and baked so that it will crumble. When a couple of days old, I give them pin-head oatmeal. Some people claim that hard, dry grain is the natural focd for the chicken. This is not true. What they would get naturally is vegetable food, worms, bugs, and flies, but not hard grain.

I feed pin-head oatmeal with charcoal for a week. Grit and water are left before the chicks at all times. There is no denger of bowel complaint where charcoal is used. After the first week, the feed should include a larger amount of the coarser grains, but I believe in giving them soft feeds once a day at least.

A common rustake often made in artificial brooding is in not supplying sufficient ventilation in the brooder. If you were to take off the ljd of some brooders at any time the smell would knock you dewn. We must use commonsense in brooding chickens as in all other work. I do not use a thermometer in the brooder. After a little experience, one is able to tell by Jahe hand whether the temperature is right or not.

#### Pure Bred vs. Grade Poultry C. W. Hurst, Carleton Co., N.B.

In all branches of the live stock industry, good blood is the foundation of success. In fact, in all business the best material must be used to attain the highest success. In nething does good blocd (the best material) count for more than in poultry husbandry. Common hens, like cheap labor, are net to be depended upon.

Here are four strong points in favor of pure bred stock in the poultry yard: 1. Those who keep scrub stock cannot sell eggs for hatching at pure bred prices. 2. These who keep scrubs cannot sell their surplus cockerels for breeding. 3. They cannot exhibit their stock at poultry shows, and there results a loss of all the benefits ensuing. 4. As a market bird, scrubs cannot compete with the pure bred in appearance and quality.

The choice of a breed hinges on what the fowls are intended to produce. If we want eggs alone, we have a long line of breeds to select from--Leghorns, Minorcas, Spanish, Andalusian, Hamburgs, Houdans, and se forth. If we aim to produce roasters, we find superior qualities in the Plymouth Rocks, Brahmas, Cochins, Langshans, Dorkings, and Wyandottes. If we properly raise, house, and feed fowls of these breeds, no crossbred fowl will equal them.

Note.—Laying strains of Rocks, Orpingtons, and Wyandottes are now known te produce as many eggs as any of the so-called egg breeds, and they lay more readily in winter time when eggs are most difficult to produce and high in price. Before you decide to change to a lighter breed you should ponder well on this point.—Editor.

The breeding of turkeys has decreased in Ontario owing to the ravages of Black Head, a disease of the liver. The feeding of salt in the soft feed will halp to ward off the disease.—Jas. Baptie, Peterboro Co., Ont.

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#### THE TARIFF NEGOTIATIONS—A VICTORY FOR THE FARMERS

#### The Most Essential Concessions they asked for likely to be granted. What the proposals may mean for agriculture.

SHOULD the negotiations for freer provinces will gain free access for their trade between Canada and the hay, potatoes and apples, as well as for United States be ratified by the the other products of their farms, to governments of both countries, on the the valuable markets of New England, basis that has been proposed, it will This will rejuvenate maritime agriculented every farmer in Canada and enlarge enormously the trade between much of their potatoes and hay from the two countries. The revenue of the markets of Ontario.

basis that has been proposed, it will benefit every farmer in Canada and enlarge enormously the trade between the two countries. The revenue of practically every farmer in Canada will be increased, in thousands of cases of by hundreds of dollars a year each. The value of our farms will be enhanced by five to 30 per cent. each as soon as the effect of the new conditions become fully apparent.

It is proposed that the products of our farms shall be admitted free to the markets of the United States, and that Canada shall lower slightly its duty on agricultural implements. These are the principal proposals as far as the farmers are concerned. If these proposals are carried into effect, they will completely change much of the agricultural conditions and trade in Canada. The farmers of the Maritime of the conditions are carried into effect, they will completely change much of the agricultural conditions and trade in Canada. The farmers of the Maritime of the conditions are concerned. If these proposals are carried into effect, they will completely change much of the agricultural conditions and trade in Canada. The farmers of the Maritime of the conditions are concerned in the conditions and trade in Canada. The farmers of the Maritime of the conditions are considerable and the conditions and trade in Canada. The farmers of the Maritime of the conditions are concerned in the conditions and trade in Canada. The farmers of the Maritime of the conditions and trade in Canada. The farmers of the Maritime of the conditions and trade in Canada. The farmers of the Maritime of the conditions are carried into effect, they will be condition to the conditions and trade in Canada. The farmers of the Maritime of the conditions and trade in Canada. The farmers of the markets of the conditions are carried into effect, they will be conditioned to the conditions and trade in the conditions and trade in the conditions are carried into effect, they will be conditioned to the conditions and trade in the conditions and trade in the conditi

heavy transportation charges we have been forced to pay on much of it in the past. Thus we will save hundreds of thousands of dollars a year on freight thousands of dollars a year on freight this, as far as injury to the manufacturing interests are concerned, by promay disturb our transportation systems, the effect will be only temporary, as the benefit that will be derived by the country at large from the new condition of affairs will be so great increased production will result, immigration will be encouraged, and the ultimate result will be a decided benefit to the railways.

The word of the farming community in this matter, it has made some slight concessions to the farming community in this matter, it has largely offset this, as far as injury to the manufacturing interests are injury interests are concerned, by promote the farming community in this matter, it has largely offset this, as far as injury to the manufacturing interests are injury to make your didn't for the manufacturing interests are concerned, by promote and the farming community in this matter, it has largely offset this, as far as injury to the manufacturing interests are concerned, by promote this, as far as injury to the manufacturing interests are concerned, by promote the farming community in this matter, it has largely offset this, as far as injury to the manufacturing interests are concerned, by promote this, as far as injury to the manufacturing interests are concerned, by promote this, as far as injury to the manufacturing interests are concerned, by promote this, as far as injury to the manufacturing interests are concerned, by promote this, as far as injury to the manufacturing interests are concerned, by promote the manufacturing interests are concerned, by promote the manufacturing interests are concerned, by promote the manufacturing in the same than the manufacturing in the same than the during interests are concerned, by promote and interests are concerned, by promote the manufacturing in the same than the concerned in the du

increased production will result, immigration will be encouraged, and the migration will be a decided benefit to the railways.

The growers of tender fruit in the Niagara district, along the shore of Lake Erie and the St. Claire River, and in British Columbia, as well as market gardeners near the large cities, will not be enabled to obtain any more market gardeners near the large cities, will not be enabled to obtain any more for the provided by the control of the provided by the control of the provided will not be enabled to obtain any more for the grain and live stock they purchase but will not be enabled to obtain any more for the grain and live stock they purchase but will not be enabled to obtain any more for the free admission of United States fruit and vegetables. This is unfortunate, but apparently cannot very well be justified to the provided with the proposed new trade arrange ments will work havoe in Canada even to farmer. These grain and live stock they purchase but will not be enabled to obtain any more for their finished product in the markets of the world. Some of them, in consequence, are loudly proclaiming that the proposed new trade arrange ments will work havoc in Canada even to farmers. These expressions of opinion only serve to show how necessary it is that the farmers shall do their own thinking in regard to matters of this kind. It will be unfortunate, nevertheless, if Canadian middle men, with their large investments in men, with their large investments in men, with their large investments in plants, are injured. Dealers and drov-ers are not likely to be affected, as they can buy as readily for the United States markets as for any other.

#### THE EFFECT ON FARMERS

THE EFFECT ON FARMERS

The result of the negotiations is a wonderful demonstration of what we as farmers can accomplish when we set ourselves to do it. The united front presented by the farmers of the west for the past few years on this question of freer trade, backed up as they have been during the past year by the farmers of the east, has had its effect on the government. This, however, is not the time to cease organizing or to rest on our oars. The interests op posed to the proposed arrangements are so great it will probably be :;noths at least before they can be carried by the governments of both countries. Strenuous efforts will be made on both sides of the line to block them. Only Strenuous efforts will be made on both sides of the line to block them. Only by being thoroughly organized will we be ready to act on short notice to defend and promote our rights. Even should the negotiations as proposed be terminated successfully, it will be well worth our while to continue our efforts for a further reduction in the duty on agricultural implements and several other much needed reforms a SERGIOIS BARGE.

#### A SERIOUS DANGER

There is one serious danger. Our government has driven a shrewd bar-gain. The influence of the manufac gain. The influence of the manufacturers, however, has been so great as to lead our government to refuse United States manufacturers as free a market in Canada for their products as they had a right to expect. This may lead the United States manufacturers to denounce the agreement as one sided and their influence may be sufficient to induce the United States Congress to refuse to approve of the ne gotiations as now proposed. Should this prove to be the result it will then be worth our while to consider seriously the advisability of urging the abolition of all duty on agricultural implements. ments.

#### WHAT IS PROPOSED

The proposed tariff changes in which we as farmers are most interested are divided into three classes. Schedule A includes articles that it is intended shall be admitted free hereafter to both countries. Schedule B shows ar-

Note.—Owing to the large tables and the considerable matter in connection with the questions of the tariff that we feature in Farm and Dairy this we teature in Farm and Dairy this week, it was necessary to withhold one page of "wide measure" matter. Included in this page held over were the article by John I. Brown, of Montreal, on "200 Hens on a Farm," and an article by Mr. Clark, on "Early Broilers Are Not Profitable." These will be given next week.—Editer.

		2	p to	23	pa pa
ARTIOLE	Canadian Tariff	United State Tariff	Eates now Proposed for Both U.S. and Canada	Reduction b	Reduction b
	SCHEDULE	A-FREE GOODS			
Cattle	25 p.c.	******	Free		25 p.
Cattle less than one year old	******	\$2 per head \$2.75 per head	Free	\$2 per head	
Cattle valued at more than \$14 per head	*******	\$2.75 per head 27½ p.c.	Free	\$2.75 per head	
Horses and mules		ar72 p.c.	Free	27½ p.c.	
Horses over one year old valued at \$50					
or less	\$12.50	*******	Free	*******	\$12
Horses N.O.P	25 p.e.	020 11	Free	********	25 p
Iorses valued at ever \$150 per head		\$30 per head 25 p.c.	Free	\$30 per head	*****
wine, 10 per lb	11/2c per lb.	\$1.50 each	Free Free	25 p.c. 81.50	41/
Sheep and lambs	25 p.c.	**********	Free		1½c per 1 25 p
ess than 1 year old	*******	75c per head	Free	75c each	мо р
one year old and over		\$1.50 each	Free	\$1.50 each	*****
Other live animals	25 p.c.	20 p.c.	Free	20 p.e.	25 p
Coultry, dead and alive	05		*******		*****
live	25 p.c. 20 p.c.	Je per 1b.	Free	3c per 1b.	25 p
heat per bus	12c	50 per 1b. 250	Free	5c per 1b.	20 p
ye, per bus	100	10e	Free Free	25e 10e	1
ats, per bus	10c	150	Free	10e 15e	1
arley, per bus	15a	30o	Free	30a	1
uckwheat, per bush	15e	15 p.c.	Free	150	- 1
eans, edible, dried, per bus	22c	450	Free	450	2
eas, dried, per bus	15a	25c	Free	25e or	1
	00-	(Seed peas 40c)	*******	40o	*****
otatoes, per bus	20e	250	Free	25c	
orn (except into Canada for distilla-	Free	150	-	44	
tion) per bus	10e	25o	Free	15e	Fr
urnips	30 p e	25 p.c.	Free Free	25c 25c	1
nions	30 p c	40c per bus	Free	40c per bus	70
abbages	30 p.c.	2c each	Free	2c each	30 p
state	30 p.c.	25 p.e.	Free	250	30 p
pples	40c per bbl.	25c per bus.	Free	25c per bus.	40c per bl
ears	25 p.e.	25c per bus.	Free	25c per bus.	25 p
rapes	\$1 per 100 bs. 2c per lb.	25c per bus. 25c per cubic ft. cap, of bbls	Free Free	25c per bus. \$1 25c per cubic ft. cap. bbls.	per 100 1
7ild blueberries, wild strawberries and		or pkgs.		or pkgs.	2c per 1
wild raspberries	Free	ic per qt.	Free	ic per qt.	
and strawberries (N.O.P.)	2e per lb.	ic per qt.	Free	ic per qt.	2c per
fruits in their natural state (N.O.P.)	25 p.c.	Free or 25 p.c.	Free	Free or 25 p.c.	25 p
ried apples	25 p.c.	to per th.	Free	20 per lb.	25 p
ried peaches, pears, and apricots	25 p.e.	To per the	Free	2c per lb.	25 p
utter, per lbheese, per lb	4e 3e	W	Free	60	
resh milk	17½ p.c.	76	Free	60	
resh cream	17% p.c.	Se con sel	Free	2c per gal.	17½ p.
ggs, per dozen	36	for new gall.	Free	5c per gal.	17% p
oney	Je per 1b.	20c per gal.	Free	20c per gal.	Zo man 1
arden, field, and other seeds not herein otherwise provided for when in pack- ages weighing over 1 lb. each, not in-				not per gat.	3c per 1
cluding flower seeds	10 p.c.	From 15c per bus. to 20c per lb.	Free	15c per bus. to 20c per lb.	10 p
seed	10 p.c.	Free	Free		
laxseed and linseed, per bus	10c	25c	Free	25e	10 p.
ottonseed and other oil seeds	10 p.c.	Free	Free		10 p.
ay, per ton	82.00	\$4 (2,240 lbs.)	Free	84 (2,240 lbs.)	10 p
ream separators and parts for repairs.	82.00 Free	\$1.50 (2,240 lbs.) 3-10c per lb.	Free Free	\$1.50 (2,240 lbs) 3-10c per lb.	82.

	PRESENT TARIFF			PROPOSED CHANGES						
					89		for		5.8	, a
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ARTICLE		nadiar			00	Tariff	Rates r Proposed Both U.S. Canada		Sto	a si
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SCHEDI	J.L.	E 3-	DUTIABLE	GO	DDS	B; MU	TUAL REDU	CTI	ONS	_
		3e				11/20			OHO.	
bacon and hams, per lb.		2e				4c	11/40 11/40		74	1%e
		2e			25	p.c.	1%e		P/40	%0
Pork, parrelled in brine, per lb Meats, other, salted, per lb		2e				25	p.c. 11/4e		p.e. 3 p.e.	15 p.c.
Canned meats and canned poultry.per it		2e			25	p.c.	11/4e	1	4½ p.c.	7 p.e.
Tallow	э,	27% p.	C.		25	p.c.	20 p.e.		D.C.	6 p.c.
Lard and compounds thereof, cottolene		20 p.c.		1/25	pe	r lb.	40c per 100		4% p.c.	15 p.c.
cotton stearine and animal stearing	2	2e								10 p.c
Tomatoes and other vegetables, include	100	20				2%c	11/4e	11/4	0	3/.0
ing corn and baked beans in cars of	F2									/40
other air-tight packages including the										
weight of the package, nor th		1%e		2½e t	o 40	n o				
				2720 F	0 40	p.c.	1',e	1	4c to 2 c	1/40
barrel of 196 lbs		50e			25	p.c.	50e		p.c., or 70c	26 p.c., or
Oatmeal and rolled oats, per 100 lbs	. 1	50e				81	50c		er bbl.	10c per bbl.
Barley, pot, pearled and patent	. 1	50 p.c.		24	pe	r lb.	%c per lb.	50		10c
Barley malt Buckwheat flour or meal		loc per	100 lbs.	15e pe	r 34	lbs.	45c per 100	Then.	48 p.c.	14 p.c.
Cornmeal	- 4	de per			25	p.c.	%c per lb.	108.	87c per 100 10 p.c.	
Split peas, dried	- 3	be per		40c			12%c per 10	) Ibe	s. 27½c per 100	The
		5c per	DDI. 40c	per	1,000	lbs.	7%c per bu	1.	371/20 per bu	71/c monho
animai food		7% p.c								type per cu.
		0 p.c.		An		p.e. lb.	12½c per 100	lbs		5 p.c.
Canned Iruits, including the weight of				40	per	10.	ic per lb.		3c per 1b.	ic per lb.
		1/40				2e	2e			
Farm wagons and complete parts thereof,	2	5 p.c.			15	p.c.	15 p.c.		******	1/40
Ploughs Tooth and disc harrows	2	0 p.c.				p.c.	15 p.c.			5 p.c.
Harvesters and reapers	2	0 p.c.			15	p.c.	15 p.c.			5 p.c.
						p.c.	15 p.c.			5 p.c. 2½ p.c.
		p.e.			15	p.c.	15 p.e.			5 p.c.
		p.e.			15	p.c.	15 p.c.			2½ p.c.
	20	p.c.			15	p.c.	15 p.c.			5 p.c.
		p.c.			15 15		15 p.c.			5 p.e.
windstackers, baggers, weighers and self-		g.,			10	p.c.	15 p.c.			5 p.c.
the foregoing for repairs	20	p.c.		35 to	45	p.c.	15 p.e.		Page 20 1 20	
bination, with horse-powers and trac-							to p.c.		From 20 to 30	p.e. 5
tion engines for farm purposes	0.0									
	20				45 1	p.c.	20 p.c.	25	p.c.	Nil
	25			35 to	45	p.c.	20 p.c.	15	to 25 p.c.	5 p.e.
	25	p.c.			45 1	p.e.	20 p.c.	25	p.c.	5 p.c.
	25	p.c.			45 1	p.e.	20 p.c.		p.c.	5 p.c.
Fanning mills	25		According		45 1	p.e.	20 p.c.	25	p.c.	5 p.c.
	-	p. 0.	according.	wood	ater	1a.i	44			
Hay tedders	25	p.c.	35 n	c. to	45 4	2.0.	20 p.e.	15	p.c. to 25 p.c.	5 p.c.
	25	p.c.			45 p		20 p.c.	15	p.c. to 25 p.c.	5 p.c.
Manure spreaders	20	p.c.	35 p.c. t	o 45 E	.c. 1	8.0-	20 p.c.	25	p.c.	5 p.c.
Weedera			cording	to m	ter	fal	20 p.c.	15		
Weeders	20	p.c.			45 p		20 p.c.	25	p.c. to 25 p.c p.c.	
	20							400	B-100	
	20	p.c.			15 p	.c.	20 p.c.	25	p.c.	
and current bushes	20	p.c.					March 1997			******
	-	2.00		-	5 p		17½ p.c.	734	p.c.	21/2 p.c.
SCHEDULE		о-сн	ANGES BY	CA	NAI	DA. N	OT BY II S			

Cement, Portland, per 100 lbs	8e	iie .	S	1%e
age to be included in the weight for	82 per 1,000 to 25 p.c.	2½e		Жe
duty 3½c per lb.	2c per 1b.	2c per lb.		1%c per lb

### Get High Class Phones

If you and your neighbors are going to build a rural telephone system, it will pay you to install high-class apparatus There will be less trouble and annoyance, and the cost of maintenance will be lower, Canadian Independent Telephones and construction materials are made in our plant in Toronto. They may cost you a little more than some others, but they're certainly worth the difference. Every phone is guaranteed for 10 years. Send for "Canada and the Telephone," our very interesting new book, containing 32 pictures, showing necessity of the telephone on the farm.



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ticles on which it is intended that both ticles on which it is intended that both countries shall make considerable tar-iff reductions. Schedule D includes articles on which Canada alone is willing to make the reductions indicated. That Canada is likely to gain the most is shown by the fact that the United States is now willing to allow in at low-States is now willing to allow in a Low-er rates just 91 per cent. of all goods formerly dutiable we supply her, worth \$47,332,000, while we allow in at lower rates just 36 per cent. of all goods for-merly dutiable that the United States has supplied us with worth \$47,828. merly dutiable that the United States has supplied us with, worth \$47,825.

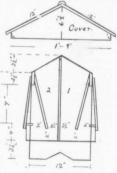
900. We have imported many than the States has from us, which make the total values about the same, der the new arrangement, with 91 per cent. of our goods admitted to the States free, our exports are likely to increase much more ranielly than the exports of the United States to us.

Should Farm and Dairy this week please you tell your neighbors about it, and this will help us to make the case. Next week an eight-page Illustrated Next week an eight-page Illustrated of the Ottawa Winter Fair will be out. Watch for it.

#### A Hopper for Outdoor Feeding

A hopper of special design is requir-ed for feeding chickens dry mash out of doors while they are on the range. of doors while they are on the range. The diagrams given herewith describe a hopper, which has been used with a large degree of satisfaction by Prof. Graham of the Ontario Agricultural College. This hopper is so constructed as to prevent the wind blowing out the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and these was a single program of the dry mask and the program of the dry mask and the program of the prog the dry mash and thereby wasting it.

The side marked 1 in the diagram, showing the end view, is used to con-



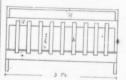
A Suitable Hopper'for Outdoor Use

End view showing construction which preve wind blowing out the dry mash fed from this hopper.

tain the dry mash or chop feed, while wilde grain is fed in the side

The bill of material required for this The bill of material required for this upper is: Ends—2 pieces, 7-8 inches x 12 inches x 2 feet 10½ inches; bottom sides—2 pieces, 7-8 inches x 3½ inches x 3 feet; top sides—2 pieces, 7-8 inches x 3 feet; sides strips—18 pieces, 3-8 inches x 15-8 i

- FEED HOPPER -Scale it " + 1"



#### Side View of the Outdoor Hopper

inch x 16 inches x 2 feet 10 % inches side division—2 pieces, ½ inch x 10 inches x 2 feet 10 ¼ inches; cover top—2 pieces, ½ inch x 12 inches x 3 feet 2½ inches; cover ends—2 pieces, 7-8 inches x 6 ½ inches x 1 foot 8 inches.

### Land For The Settler

160 acres of land convenient to allways in Northern Ontaric's

160 acres of land convenient to Railways in Northern Ontaric's great Clay Belt for each settler. The soil is rich and productive and covered with valuable timber. For full information as to terms of sale and homestead regulations, and for special colonization rates to settlers, write 20

DONALD SUTHERLAND, Director of Colonization, Toronto, Ontario. HON. JAMES S. DUFF,

Minister of Agriculture, Toronto, Ontario.

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#### The Latest Open-Air House

The hen house best adapted for winter egg production and one which meets the requirements of the average farm flock of poultry is an open air house of design as shown in the illustration herewith. It was designillustration herewith. It was designed by Prof. W. R. Graham at the Poultry Department of the Ontario Agricultural College, Guelph. A model of this house was exhibited at the Guelph Winter Fair, and was discussed by Professor Graham in the lecture room

The house is 20 x 20 feet and has a capacity of 100 hens. It faces the in front, is very cheap to build and thas given excellent results at the College and elsewhere.
On hearing of this house, Mr. J.

Clark, the well-known poultry

ber, costing about \$15 per M., and covered it over with Brantford roofing.

-'Any farmer who will house his hens in a building such as this and give them any care at all, will have them laying like fun. The house might not do for exhibition stock since the combs of the cock birds housed in it, freeze. The stock will keep absolutely healthy when kept thus in the fresh open air, and un-der these conditions the results they will give in egg production is little short of remarkable."

short of remarkable."
This open-air house is bound to grow in popularity and since like causes produce like effects, there is no reason whatever why every farmer in Canada sheed and obtain winter eggs in quantity, if they have the right stock, feed it properly and house it in these cherp and modern

Pointers on Turkey Management

Jas. Baptie, Peterboro Co. Ont.

In hatching turkeys Ly the natural method see that the mother is perfectly free from vermin before the eggs hatch. Vermin is one of the principal causes of the poults droop-ing their wings and dying while ing their wings and dying while young. This can easily be avoided if

the setting hen is free cf vermin.

The young turkeys require very little food when first hatched. I feed principally on green onion tops cut up fine, and mixed with bread crumbs. Do not let them have any drinking water. The old hen needs water, but it can be elevated so that the chicks cannot get at it.

A roomy coop tightly made on three sides is provided for the hen. This coop is placed in a grassy plot. The hen is tethered with a piece of rope so that she has some liberty. I rope so that she has some liberty. I keep the hen and chickens shut in the coop at night and see that they do not get well. Young turkeys must be kept perfectly dry and warm the first month: after that there is not much trouble if they are bred from the through the started right they will usually do well. They do better on high land than on low land.



The Latest and Approved Style of Farm Poultry House

The scultry house as here shown has given remarkably good results wit Professor Ghall and had it built at the Poultry Department of the Ontario Agricultural Cut is an all the year count, and is an all the year round, every day hen house. It is very choice south, and is an all the year round, every day hen house. It is very choice in the control of the professor of the professor

and fruit farmer and Institute lecturer from Brant Co., Ont., went to satisfactory with and Mr. Clark, one forthwith. While on institute orthwith. While on institute early last month in Peterborough County, Mr. Clark called on the aditors of Farm and Dairy, and while in our office discussed this house. in our office discussed this house. "I saw this house of Professor Gra-"I saw this house of Protessor Gra-ham's towards the last of November." said Mr. Clerk. "Mr. Graham said that the hens had been in it only for a few days and that if he got a few dozen eggs from them by Christ-max time, he would be settified.

SPLENDID RESULTS FROM THE START "The 100 hens in the house were

"The 100 hens in the house were of several breeds, included amongst which were Legherns and Minoreas." It told the Professor that from the appearance of the birds then, I reckented he would get more than a few dozen eggs from them before the end of the year. When I saw the Professor again at the time of the Winter Fair, he was getting 30 eggs : day, from that pen. I went right home, and built one of these houses and got splendid results right vewy."

A peculiar thing about this house is that although it is open in the

A peculiar thing about this house is that although it is open in the front, it seems warmer in there than it does in other houses that are closed, even if they have curtain fronts. The difference is that the atmosphere in these wide-open houses is dry, while in the others the air is dry, while in the others the air is

"My hens have only been in this "My hens have only been in this house three weeks." continued Mr. Clark," and they are now laying like fun. The house is eight feet high in the centre, three feet at the front, the the back. At the base at the front at the back. At the base at the front of the back at the house I have a board one foot wife, whouse I have a board one foot wife, whouse I have a room to the width of the height, right across the width of the house.

THE HEN HOUSE FOR THE FARMER "This structure is the house for a farmer. It is cheap. I built mine on a cement wall six inches above the ground. My man and I together built the whole thing in three days, and I do not think it cost me over \$50 or \$60. I built it of cheap lumwith Professor Grahem

Sprouted oats is one of the best sprouted oats is one of the search of all. A pound a day to a pen of fifteen fowls will produce results that are surprising and will repay you for the extra work of providing it.

#### Queries re Distinguishing Sex

I have a goose or it may be a gander, I cannot tell which. I wish to get a mate for it and would be glad if you will tell me how I can tell whether to buy a male or female.—Subscriber, Simcoe

It is almost impossible to give you by letter any information that will enable you to decide, positively, whether heads of the ganders are coarser than those of the geese, and there is a fineness about the eyes in the goose that is found in the females of most poultry and farm animals. If there is a goose raiser living anywhere nearyou, he could probably tell you immediately what sex the bird belongs to, just as you could tell if you were experienced in goose culture.—J. P. H.

### KENDALIS SPAVIN CURE



is the remedy you can depend on. No other preparation has done so and for the horse and the horseman. Kendall's Spavin

Cure has saved millions of dollars for thousands of owners during the past 40 years. It is the quick, sure, safe cure that never fails to give the best results even when all other treatment may prove a failure.

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Cure makes a complete and lasting care because it cures the cause of the

no scars or white hairs because it does not blister.

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best liniment in the world for man and beast. No telling when you will need it. Get it now and you will have the right remedy when the emergency arises.

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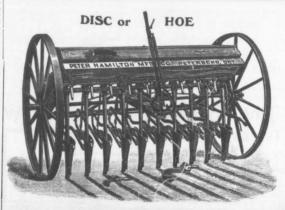
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This is the unanimous opin ion of thousands of farmers who have used our "LEAD-ER" in the past. The secret lying in the fact that it is simple in construction and operation, light of draft and strongly constructed, and doisg the work given it in all kinds of grain and under all conditions in a thorough and satisfactory manner.

See our agent and he will explain to you dozens of advantages in the "Leader," or write today for Catalogue F.

HE HAS SOMETHING SPECIAL TO OFFER YOU.

### S. G. HANSON'S

STANDARD

### WHITE LEGHORNS

The breeding hens for the season 1911 are part of the flock of 402 pullets, which in January, February and March, established a record for flocks of that size, by laying 23,532 eggs.
The cockerels heading the breeding pens are bred from trapnested hens, with individual records in their let year of 200 eggs and over. Birds let year of 200 eggs and over. Birds from these matings must give excep-tionally good results. Book your or-ders for hatching eggs well in ad-vance, if you want early laying pul-

#### EGGS FOR HATCHING

March and April—\$3.00 per 15; \$15.00 per 100.

May-\$2.50 per 15; \$12.50 per 100. June-\$2.00 per 15; \$10.00 per 100. Prices of day-old heicks on appli-

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N WANTED—Age 18 to 35, for Firemen monthly, and Brakemen \$80, on all Rail-is Experience unnecessary. No strike monthly and Brakemen \$150 to

RAILROAD EMPLOYING HEADQUARTERS Over 400 men sent to positions monthly. State age; send stamp. Railway Association, Dept. 541. 227 Monroe St., Brooklyn, N.Y.

Look up our Pig offer. It will in-

### HORTICULTURE

The Boy and his Dad

'A farmer in our state," said Mr. P. Hull, of Michigan, recently while addressing the convention of the Eastern Ontario Dairymen's Association at Perth, "sent his boy to the State College. After spending a few years there, the boy returned to fancy ideas

fancy ideas.

"This farmer had 10 acres of crchard, which he kept in just the
same manner as his neighbors kept
theirs, and which yielded him about
the same returns. One day his son
asked him for permission to take asked him for permission to take charge of this orchard. The father resented the request, and told the boy pretty plainly that although he had never been to the Cellege he guessed he still knew more about caring for the orchard than the son

"The boy was a chip off the old in the eye and told him that he was in the eye and told him that he was either a fcol for having wasted several hundred dollars in sending him to the College or in not allowing him to use the information he had there gained. This hit the old man pretty hard. He took some time to think it over. Finally he decided to give the boy a chance at the orchard

"The boy took hold with a will. He first pruned the trees thoroughly, later sprayed them, cultivated the ground, and ended up the first year ground, and ended up the miss year by getting out of the orchard about 10 times as much as it had ever pro-duced before. Now the old man 10 times as duced before. Now the out much duced before. Now the boy than he ever thinks more of the boy than he ever did before. There are other farmers are mistake were they to give their boys similar op-portunities to show what they can do."

The foundation of many a success-

father gave the boy a charge St. ful business has been laid when the father gave the boy a chance. Speak, ing recently to an editor of Farm and Dairy, Mr. J. W. Richardson, of Caledonia, Ont, said that when a boy he took a notion to get some pure bred Holsteins. His father encouraged him in this, and the feundation of their present excellent hardwas laid. Last vers. Mr. Briebeld. was laid. Last year Mr. Richardson's farm won second place in the finals of the Farm and Dairy Prize Farms

#### Niagara Fruit Men Meet

The fruit growers of the Niagara district are becoming more and more incensed at the treatment they are receiving from the express companies. This indignation was given les. This indignation was given voice to at the recent meeting of the directors of the Fruit Growers' Association held at St. Catharines. General Manager Bryce of the Canadian Express Company, refused to meet them to confer on the new tariff, claiming that the recent rul-ing of the railway commission aping of the railway commission applied only to the territory between Niagara district and the Northwest. General Manager Scott of the Dominion Express Company has not even replied to their request for a conference. Mr. Robt. Thompson of Catharines suggested that the matter be taken up quickly and brought to an issue. To facilitate brought to an issue. To facilitate matters in this regard, the committee were given power to expend tee were given power to expend any sum necessary to conduct the fight. The election of officers resulted as follows: President, J. W. Smith, Wi. nona; Vice-Presidenta, Robert Thomp-son, St. Catharines; W. B. Bridge-man, Winona; G. C. Brown, Pelham; Fred Hamilton, Port Dalhousie; Sec-retary-Treasurer, Carl E. Fisher, St. Catharines.

Catharines. District meetings will be held at District meetings will be held at the following places: The week of February 13th, at Stoney Creek, Beamsville, Grantham, and in the last week of February at Jordan, St. Davids, and Fonthill. The question of orchard inspection was discussed, but no definite action was taken.

The Apple Growers Association of Northumberland and Durham held a very successful two day fruit institute in Cobourg, Ont., Jan. 25 and 26. It was decided to connect themselves with the Provincial organization. A full report of this institute will Lo given in Farm and Dairy next week.

Dandy Fowls.—I received the pair pure bred Dorking Fowls, which Farm and Dairy were to give me for a club of four new subscribers. The birds are dandies. They were shippords are dandles. They were shipped through Mr. Jas. Baptie, of Peterboro Cc., Ont., and pleased me so well that I am going to try and get three more clubs of new subscriters between now and spring.—Jas. Morrow, Nipissing District, Ont.

#### \*\*\*\*\* APICULTURE

#### e ni ivo Brood Diseases of Honey Bees

Morley Pettit, Provincial Apiarist for Ontario

Beekeepers often become dissatisfied with their business because they have "bad luck" with the bees. The bees dwindle and die.



Their owners can-not tell what the trouble is. Bee-moths frequently are blamed for the poor condition of the bees when as a matter of fact e moths as con-secondary con-tion Heavy the moths are only winter losses some times come and cannot be accounted for in any way known to the bee-keeper. Whenever

keeper. a colony is not doing well the exact cause of its failure should be carefully sought fer, because in many cases so-called "bad luck" is due to bacterial disease.

Disease often makes its appearance Disease often makes its appearance in the best colonies in the apiary. Infection is usually carried by robbing and rothing is generally done by strong colonies. If not checked on the start the disease soon changes these best colonies to the poorest, and



Some Bees. Why Don't They Sting?

The illustration herewith is reproduced from "Gleanings" and shows William H. Crowson in a bathing suit demonstrating bees at a state fair in Tennesee. Would you care to try such an experiment?

it also spreads throughout the apiary and to other apiaries in the neigh borhood

TWO KINDS OF FOUL BROOD The diseases which cause the most damage in Ontario attack the developing brood causing much of it to die in the ccmb, and the colony soon dwindles from lack of young bees to replace the old. There are two kinds of brood diseases of bees prevalent in Ontario, called respectively: American

Foul Brood and European Foul Brood.

American Foul Brod is found pretty well sprinkled over Ontario from the Trent Valley southwest to Windthe Trent Valley southwest to Wind-sor. It has been with us for years. We do not know how long. It has a habit of lungering in a community without doing excessive damage in a short time, and yet, causing in the aggregate enormous financial loss in the bees that die, the honey that goes to waste for lack of bees to gather it, and in the discouragement and disinterest that it brings to the

a the farm as a Litter Carrier. Every day in the winter ad generally every day in the summer it is used. Think the amount of time and labor it would save. Send us a plan of your barn and write for catalogue and prions to

No Machine is Used as Often

ELM GROVE POULTRY FARM

FOR SALE - Good Cockerels. Single Comb Black Minorcas, S. C. White Leghorns, Rose Comb Brown Leghorns and Rouen Ducks. J. H. RUTHERFORD, Box 62. Long Distance Phone.
CALEDON EAST, ONTARIO.

LOUDEN MACHINERY CO., CUELPH, ONT. Manufacturers of Hay Tools, Litter Carriers, Co Stalls and Stanchions, Barn Door Hangers, e

The "Bissell" Out Throw Is very light draft Will Line

EN LITTER CARRIER

Our Out Throw Harrow is such great success that we have decided to advertise it and give you your choice between and the famous "Bissell" Throw harrows are usually heavy draft,—heavy on horses' necks. But the "Bissell" Out Throw is light draft-easiest on horses necks of any out throw harrow The location of arch directly over gangs and projection of weight off horses' necks. Instead of setting opposite to each other, one gang is set slightly ahead of the other, which prevents crowding or bumping to-gether. All parts are in correct

proportion-that's why draft is so very light. Ask Dept. R. to send you booklet fully describ-ing the "Bissell" Out Throw and In Throw Harrows, which are also made with Two Levers for hilly territory. 16 plate wide cut harrows a specialty with us. Remember, it isn't a ge "Bissell" unless the name a genuine sell" is stamped on the harrow.

T. E. BISSELL CO., Ltd. Elora, Ont.

1911.

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beekeeper wno sees us a proper from year to year.

European Poul Brood made its first appearance in Ontario, in Northumberland County, about three or four years ago. It spreed from the apjury where it first appeared until it now area of about 400 square covers an area of about 400 square miles in that neighborhood. The neighborhood of Ottawa has recently developed an area of nearly 300 square miles badly affected with this dis-

RESISTANT STRAINS OF BEES

RESISTANT STRAINS OF REES
Some of the distinctive features of
European Foul Brood are that it usually affects the larvae at a younger stage and spreads over an apiary much more rapidly than American Foul Brood. Particular strains of Italian bees have Leen found to be so resistant to this particular disease as the practically immune to it. The main factor in combatting or safeguarding against this disease is to re-queen all apiaries with the right strain of Italians.

It is not possible in the limits of this article to describe the symptoms or methical of our of bee-diseases.

or methods of cure of bee-diseases.

#### Well Satisfied with Pig

Weil Satisfied with Fig.

Last year Farm and Dairy sent me a pure bred Berkshire big which was bred by W. F. Elliott of Coleman, Ont. I am much pleased to say we think we could not have secured a better pig than the one Farm and Dairy sent us. Everyone who has seen it says it is a very fine has seen it says it is a very fine cure another pig, and a pair of chickens.—Callie McGregor, Lambton Co., Ont.

The Ontario Department of Agricul-The Ontario Department of Agriculture has a very thorough system of inspection of apiaries for disease, and is always ready to send an inspector to any beekeeper who fears that disease exists in his apiary. The Agriculture Department of the Ontario Agricultura College, Guelph, is established for the purpose of diseeminating information and answering all kinds of inquiries with reference to Agriculture in Ontario.

#### The Price of Honey

Wm. Couse, Peel Co., Ont.

The Bee Keepers of Ontario are now practically setting the prices which they receive for their honey. They have done this by getting out their own reports of the honey crop. their own reports of the honey crop. Formerly, the buyers used to get out the reports and consequently light crops of honey in certain, districts are not mentioned. By compiling flavorable reports in this manner, the wholesale price of honey was kept down. For the last two or three years we have been getting out our own crop reports and giving an estimate of the prices which should be received by the bee keepers.

And the members of the Bee Keepers' Assectation have been alle to get the prices demanded too. Our reports are very compilete and when

get the prices demanded too. Our reports are very complete and when we know exactly how much honey there is, it is no trouble to determine the price which should be received and the buyers simply have to pay it. Next year, the Bee Keepers' Association are going to make a few trial shipments of hency to the British market. ish market.

Farm and Dairy is a paper that is appreciated by myself and by my farm manager. It is a credit to the people who issue it, and should be subscribed for by all farming people, as the amount paid for the same is merely a neminal one.—G. W. Hatton, Peterboro Co., Ont.

Renew your subscription now.

#### Crushed Oats and Hopper Feed

J. W. Clark, Brant Co., Ont.

Grushed oats is the feed par excel-ence for making hens lay in winter. It should be fed from hoppers. It is difficult to get a hopper that will feed this material preperly because of the tendency of the crushed oats to hang up and not come down of their own winter to the come down of their own with the come down of the come down of their own with the come down of the come down of their own with the come down of the come down of the come down of their own with the come down of the come down

own weight to the opening. I have a hopper new, however, which feeds this material to perfection. The sketch herewith de-scribes it fairly Oracn well. As may be seen com the dimenfrom sions indicated on the hopper, it is eight inches from front to back. Mine

is three feet wide. wire netting of half inch mesh. The birds pick the crushed oats through

birds pick the crushed oats through this netting and the box shape de-sign of the hopper below it catches any feed that falls.

There is nothing that will take the place of crushed oats for hens in winter if yeu want eggs in abund-ance. Oat chop will not do. The bens will not eat it readily. Whole oats will hardly be noticed by the av-erage well fed hen. In fact there is nothing that will take the place of crushed oats fed from a suitable hop-per. The hens will eat this "to beat per. The hens will eat this "to beat the band," and they seem to get just

or the hens will eat this "to beat the band," and they seem to get just enough of the hull to aid digestion.

Aside from this material fed in the hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little however, until they are 24 hours old, they mean the property wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in eight inches of straw little hoppers, my hens receive wheat or corn fed in this manner. Once they reach the age of six or eight weeks where the hoppers when the propers when the propers have fed hours call the sound in the first was and turned and three and three and three and three and there and three and there and there and three and there and there and there and there and there and the eight in keeping when keithy and grow love the first was only in keeping or each the age of six or eight makes when the hoppers when the hopp

beekeeper who sees his apiary failing from year to year.

European Poul Brood made its first appearance in Onterio, in Northumberland County, about three or four years ago. It spread from the apiary

simple and one can make it in a minute.

In order that hens may have a supply of water that is not frozen it is well to warm it slightly so that it will not freeze immediately as it otherwise would in the cold open front house. My hens are given butfout house. My hens are given buttermilk or scur milk all that I have available.

#### How to Care for Chickens

Wm. B. Lynch, Colchester Co., N.S.
No matter hew good the stock, good poultry cannot be raised unless the chickens are properly cared for frem the time they leave the shell. When



The photo as here reproduced shows the hopper, as used by Professor Graham in his new wide open front poultry house, for feeding crushed oats. The sides of this hopper do not converge, thus the crushed oats feed down readily of their own weight to the wire netting bottom.

### **WINOKA POULTRY FARM** Single Comb Black Minorcas

EXCLUSIVELY Exhibition and Utility Points Combined.

Stock and Eggs for Sale Send for Mating List.

H. DUNNING, Prop.

THORNTON, ONT. Member American Block Minorca Club

## **MONEY IN EGGS**

We start you RIGHT with the heaviest laying strains and tell you how to succed. Send address and

**GRAND FREE OFFERS** for season 1911.—You'll be glad you did.

BRANT POULTRY YARDS BRANTFORD, ONT.

fourth to the 14th day. From then on

fourth to the 14th day. From then on the proportion of bread crumbs and oatmeal is decreased, bringing them gradually to a ration of equal parts of cern-meal, middlings and bran by weight or in the proportion of 3, 4, 6 by measure. When we have skim milk we prefer to give it instead of beef scraps to supply the animal food It should be scur before being fed. When the chickens are six or eight weeks old, whole grain should be added to the ration until one feeding consists of whole grain and two cf mashed feed. We have had splendid success with our chickens, fed and managed in this manner. Once they reach the age of six or eight weeks there should be no further trouble there should be no further trouble there should be no further trouble laceping them healthy and grow-ling keeping them healthy and grow-

# The Sure Way To

Makes healthier and more productive hens

Destroy Lice and Mites and Prevent the Spreading of Infectious Diseases

Chance who does not take proper care of his poultry has as much chance to raise them profitably as the man who tries to fill a sieve when the profitably as the man who tries to fill a sieve with the control of the poultry free from liee, mites and all disease-breeding serms of the profitably as the profitable with the capital invested, are greater than in any other line of legitimate business. You can obtain these profits, easily and with landly any effort, by the use of

Won't Poison, Won't Explode, Won't Burn

A Carbolic, Cresol, Coal-Tar Preparati

and subgreated person of the state of the st

ry Adviser—the latter is invaluable to stockmen. Your name on a postar will us. The Zenner Disinfectant Co., 218 Lafayette Ave., Detroit, Mich.



Hatches a greater number of healthy

disease.

chicks and pro-tects them from

Used and endorsed by 46 agricultural colleges

#### Pointers on Geese

Breed only from the best.

Bathing water is not required for stock birds.

ock birds.

Geese should have more or less
They may exercise. They range, that they may exercise. They do not do so well when confined to a small run.

Geese make their own nests It is a pretty good indication that

the laying season is at hand when the goose is seen 'going from one place to another with straws in her mouth

After the goose has chosen the place to lay her first egg, she will, as a rule, use that place for the enlaying season.

The ideal gander is one that has large dimensions, active gait, lively and clear eyes, an ever ready and hoarse voice, and a demeanor of full

Choose a goose for weight of Lody,

steadiness of deportment, and breadth of foot—a quality said to indicate the presence of other excellencies.

is difficult to dress a gosling in cold water, as the feathers set tighter and in picking them the flesh is apt

All things being equal, it is estimated that four geese and two ganders should produce 100 goslings in

The gander is a gallant fellow ever quarding his mate. When sexes are equal geese pair, and are much attached to each other, seldom being unfaithful. They have a strong leve for home.

A cabbage hung in the hen house twice a week just high enough so that the hens will have to jump for a makes a good winter food when the thermometer is at zero

Grit is Esential for Poultry E. F. Eaton, Colchester Co., N.S.

The grit in the food of the hen performs the same function in prepar-ing the food for the assimilation as do teeth in the case of other farm animals. In the gizzard of the fowl, the strong muscles in the walls keep the food and the grit grinding continually against each other and in this way, coarse food is rendered fine and put in the proper condition for assimilation. Without grit, bowel trouble is sure to result in fowl as

the food will not be digested.

Very fine grit should form the first food of the young chicken. As soon as the chicken is taken from the in-cubator, it should be given a chance to pick at grit so that it will have Don't forget seeing your friends and of its food. Failure to observe this rule, is a most frequent cause of loss subscribers to Farm and Dairy.

in the brooding of young chicks.

in the brooting of young chicks.

Fine sand, oyster shells, broken crockery, and mortar from old walls are all desirable forms of grit. Old mortar serves a double purpose of suppying grit, and the lime to make the shell of the egg. If lime in some torm is not use, softshelled eggs result. Where hens have free range in the summer or average in the summer no provision need be made for supplying grit, but it should made for supplying grit, but it should be constantly in front of them when housed for winter. I have found that the most convenient way to feed them is by means of a small feeding hopper, divided into two compart-ments. In one keep oyster shells, and in the other old mortar pounded



# Free to Stock and Poultry Raisers

We will send, absolutely free, for the asking, postpaid, one of our large thirty-two-page booklets on the common diseases of stock and poultry. Tells you how to feed all kinds of heavy and light horses, colts and mares, milch cows, calves and fattening steers, also how to keep and feed poultry so that they will lay just as well in winter as in summer. No farmer should be without it.



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a day per Animal, Royal Purple Stock secific makes each Animal worth 25 per cent. more.

"Stock Food," doing likewise.

Royal Purple will permanently cure the Bots, Colic, Worms, Skin Diseases and Debility, and restore run - down Animals to plumpness and vigor.

It will increase the milk-yield three to five pounds per cow a day inside of from two to three weeks. It makes the milk richer than ever before.

MR. ANDREW WEGRICH, of Wainflett, Ont., says: "This is to certify that I have tried your Royal Purple Stock Specific for two weeks, on one cow. On the 16th I weighed her milk as 17 I noticed a change after 5 or 6 days, as there was an extra weight of milk. On the 29th, I carefully weighed the milk, and she gave 22 pounds. I am giving an order for 5 boxes, as I consider it the best I have ever used."

"Stock Food" will not do this. Because "Stock Food" is nothing more or less than a mixture of the very things which you, yourself, grow on your own farm.

It is not more food your Animals need They must have something to help their es get all the nourishment from the food they are getting. So that they will fatten, and stay fat, all the year 'round.

They need something to prevent disease to cure disease, and to keep them in the

### Not a Stock Food

Royal Purple is not a "Stock Food," or a "medicine." It is a Conditioner

It does not contain Grain, nor farm Nor does it contain "Dope products. or any other injurious ingredient. Royal Purple does not merely temporarily blo or inspire the Animal. It fattens a It fattens and strengthens it, permanently,



No other Specific known adds flesh so quickly as Royal Purple. It makes 6-weeks-old Calves as large as ordi-nary-fed Calves are at 10 weeks.

makes naturally-thin Animals fat for stock,

and heavy. And it builds up the health and restores the former plumpness and vigor of run-down stock, in little or no time

The very best time to use this Conditioner is NOW. It digests the hard food properly and prevents the animals getting indigestion or losing flesh.

#### 50 per cent. Cheaper

One 50-cent Package of Royal Purple will last one Animal 70 days. This figures a little over two-thirds of a cent

Most "Stock Foods" in 50-cent Packages last but 50 days, and are given three times a day.

But Royal Purple Specific is given only once a day, and lasts 50 per cent. longer.

(A \$1.50 Pail, containing four times amount of the 50-cent Package, lasts 280 days.)

So, you see, it is only necessary to give Royal Purple Specific once each day. Just think of making each Animal worth 25 per cent, over its cost! What will that mean to you, Mr. Stock Owner

Royal Purple creates an appetite for

As a Hog fattener, Royal Purple has

food, and helps nature to digest and turn

Never Off Feed

Dan McEwen, the horseman, says:
"I have used Royal Purple Stock
specific persistently in feeding 'The Eel,"

2.02‡, largest winner of any pacer on Grand Circuit in 1908 and 1909, and 'Henry Winters,' 2.10‡, brother of 'Allen

it into flesh and muscle.

stakes in 1908.

It makes the Hens lay Eggs in Winter as well as in the Sumr

MRS. WM. BURNHAM, Sanford, Ont., soys: "Dear Sirs,—This is to certithat I have used two boxes of yo Poultry Specific for my hens. They la so well while feeding it to them, I won-dered if you would mind sending me word how or where I could get some this word now or where I could get some this winter. I bought it from your agent last winter. I had 32 hens, and some days I got two dozen eggs a day in February and March, while feeding them the Specific."

Royal Purple Poultry Specific prevents wis losing flesh at moulting time, and permanently cures every poultry disease.

It makes their plumage bright and keeps
th always in prime condition.

It makes your Poultry worth more than they could ever be without it.

Yet one 50-cent Package will last 25 Hens 70 days. Or 25 Hens 280 days. Or a \$1.50 Pail will do This is four times more material at only three times the

Centralia, Ont., Feb. 7, '10. The W. A. Jenkins Mfg. Co., London, Ont.: Gentlemen,-We have been using Royal Purple Poultry and Stock Specific for the last three weeks, and must say that results are remarkable. Am feeding the Stock Specific to two milking cows, and they have increased 30 per cent. in their milk. The Poultry results are even more marked than this. We have about 60 hens, laying age. When we commenced feeding, we were getting five and six eggs

days have been the coldest this winter. You can see results plainly in two or three days after the use of "Royal Pur-ple," and the poultry have the same hustle and appearance now as in the sum-With cows and poultry, am using exactly the same feed and care as re starting to feed "Royal Purple."

a day, and ir the last five days the same flock of hens laid 150 eggs, almost an average of 31 each day, and those five

When farmers and stockmen get ac-quainted with Royal Purple, it will have a greater demand than all other tonics and stock foods on the market combined Yours truly, ANDREW HICKS.

Make This Test Every ounce of Royal Purple Stock and Poultry Specific is guaranteed.

To prove that Royal Purple has no equal, we want you to make this test :

Feed Royal Purple to any one of your Animals for four weeks. And at the same time feed any other preparation to any other Animal in the same condition. If Royal Purple does not prove to you, by actual results, that it is the best you ever used, we'll return your

And we'll ask no questions-make no excuses. You will be the judge - not us.

This is an honest test, isn't it? We ask you to make it because we know that Royal Purple is the best Conditioner on the market.

If you are not satisfied, after testing it, you don't lose anything, do you?

Aug. 28, 1910. W. A. Jenkins Mfg. Co., London, Ont.: Gentlemen,-Last Fall we had in our stables a young mare belonging to Miss Clouston, of Montreal. We could not feed her any bran on account of causing violent scouring, consequently causing her to become weak and thin. We commenced using your Royal Purple Stock Specific, and the results were wonderful. After using it three weeks, we found we could feed the animal bran or any other soft feed without scouring her, and smeatually took on in this time twenty-five pounds of fesh, we working her at the same time through the hunt. I can heartily recommend your Stock Specific.

TOM SMITH,

TOM SMITH,

Trainer for the Hon. Adam Be

### Winters,' winner of \$36,000 in trotting These horses have never been off their feed since I started using Royal Purple Specific. I will always have it in my stables. Your Cough Powder works like magic."

For Poultry Royal Purple Poultry Specific 's our It is for Poultr - not We also manufacture:

Royal Purple Sweat Liniment ..... 50c. Royal Purple Cough Cure........ 50c.

Our Cough Cure will cure any ordinary ough in four days, and will break up and cure distemper in ten to twelve days and cure distemper in ten to twelve days.

If your dealer cannot supply you with
our Royal Purple Brands, we will supply
you upon receipt of \$1.50 a pail, prepaid, for either poultry or stock, or you want any Liniment, Gall Cure Cough Powder, we will send it by mail, postpaid, upon receipt of price.

JENKINS MFG. COMPANY, LONDON, ONTARIO

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We comwonderful any other wenty-five er at the t. I can Specifi MITH, m Beck

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#### THE FARMER VS. THE MANUFACTURER

#### A Joint Debate at Beaverton between the Champions of the two interests. Both sides ably presented. Important points scored.

The joint debate at Beaverton, Ont., last Friday evening, between Mr. E. C. Drury, of Crown Hill, Ont., representing the farmers, and Mr. T. A. Russell, of Toronto, representing the farmers, and mr. T. A. Russell, of Toronto, representing the farmers, and the state of the control of the con

and reflected creatt on the cause or agriculture.

The debate took place in Alexandria Hall, at Beaverton, which holds comfortably about 330 people. It was jammed to the doors. Probably 460 people heard the discussion.

Beaverton is the centre of three granges. The farmers for miles around began gathering as early as half past seven. About 125 seats were reserved for the use of a party of manulacturers and university students of Toronto who accompanied Mr. Russell by train from Toronto. The Toronto daily papers had one or two representatives each there while the telegraph companies sent a special operagraph companies sent a special opera-tor. The university students soon lea tor. The university students soon let it be known, by means of their college yell, that they were for Drury and free trade. Rev. J. McKee McLennan, acted as chairman. It was arranged beforehand that no decision should be given. The verdict was left

#### THE DEBATE

Mr. Drury spoke first for 45 minutes. Mr. Russell then spoke for 50 minutes. Mr. Prury followed for 15 minutes and Mr. Russell closed the debate with 10 minutes. This was a decided advantage for Mr. Russell. It gave him 3 better opportunity to answer Mr. Drury's arguments, while Mr. Drury had but comparatively little opportunity to answer his. Largely for this reason it is possible that had the this reason it is possible that had the this reason it is possible that had the debate been settled on the points scored that Mr. Russell would have won. On the other hand, Mr. Drury had such a fund of arguments on his side he found it difficult to present them effectively, and many were not even touched on. Mr. Drury reached his time limit, both times he spoke, and had to be called off by the chairman. Mr. Russell, on the other hand, did not wise his full time either time he spoke. Mr. Drury had but comparatively little

THE SPEAKERS
Both speakers, considering the mag-nitude of the interests they represent-ed, and the appearance of being very young They were both clean shaven and might have passed for 30, or but little over that age, though Mr. Rus-sell is probably considerably older than that. THE SPEAKERS

Mr. Drury proved himself to be the more ready and forceful speaker. He relied but little on his notes. Mr. Russell, who had not been feeling well, spoke pleasantly, but relied on his notes largely. He was rather the more effective debater of the two, as he consedensed his material somewhat better and therefore scored to advantage. In one respect the debate was dispositing. Probably because the had dealt exhaustively with the fundamental principles of free trade vs. prometial principles of trade vs. prometial principles of free trade vs. prometial principles Mr. Drury proved himself to be the

mental principles of free trade vs. pro-tection in previous addresses both speakers showed a tendency to neglect these essentials, and to try and intro-duce new material. Mr. Drury, for in-stance, did not emphasize, as he might have, the point that protection limits the farmer's markets for his products the farmer's markets for his products and increases the cost of the articles he buys. Mr. Russell, on the other hand, did not attempt to prove as strongly as he might, that given good tone markets under protection farmets do not greatly need foreign markets for their surplus, and that protection has provided such markets. The fact was that neither speaker was able to do full justice to his subject in he. to do full justice to his subject in the

Lack of space makes it impossible to give a full report of the addresses. A summary of the main points scored by cach is all that can be given. Both speakers started by expressing a de street of deal with the question from a standing and not from a purely class

standpoint.
MR. DRURY'S POINTS \* Mr. Drury's main points were as

First-That he was not opposed to a purely protective tariff for revenue only. Such protection should be given for a limited period and a tariff comission should be appointed to investigate and estimate the needs of the industries receiving it.

Second—That our present tariff is not for a revenue only. He claims that it puts \$3 in the pockets of the manunot for a revenue only. He claims that it puts \$\frac{87}{3}\$ in the pockets of the manufacturer to every dollar received by the government. This, he claimed, was an unfair burden on the farmers, who have to pay at least \$\frac{8200}{2}\$ a year in protective duties, which is equal to carrying a mortgage of \$\frac{84,000}{2}\$ a year. This.—That the depopulation of the rural districts and the increase in urban population is due largely to the present fiscal system, which builds up the manufacturers at the expense of the manufacturers at the expense of the protection of the farming afficient of all industries, the foundation of all industries, the foundation of all industries.

Fifth—That the depopulation of the farming districts cannot be accounted.

farming districts cannot be accounted for by modern farm machinery, inas-much as there is still a greater de-mand for farm help than can be sup-rlied at the prices farmers are able

to pay.

Sixth-That advice to the farmers to Sign.—That advice to the farmers to increase the production of their farms was good as far as it went, but was given mostly by people who were not working on the farms and who did not realize the tremendous difficulties farmers labor under.

Seventh—That the manufacturers of this Mr. Drury held up some sam-take advantage of the tariff to advance their prices to undue figures. In proof manufacture, apparently identical in 

### BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines, nor for less than aix months, or 26 insertions during twelve months.

SUNNYSIDE HOLSTEINS. — Young stock, CLYDE HORSES, SHORTHORN CATTLE— all ages.—J. M. Montle & Son, Stanstead, Quebec.

CLYDESDALE HORSES, SHORTHORN CAT-TLE—Large selection of best stock. Prices reasonable.—Smith & Richardson, breed-ers and importers, Columbus, Ont.

ORMSBY GRANGE STOCK FARM, ORMS-TOWN, P. QUEBEC. — Importation and breeding of high class Clydesdales a spec-ialty. Special importations will be made. —Duncan McEachran.

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TO THE AND TAMWORTH HOGS.—
Plymouth Rock and Orpington fow.—A
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CLYDESDALES—Many by that great sire Acme, (Imp.) Write us, R. M. Holtby Manchester P.O., and G.T.R. Station Myrtle C.P.R. Long Distance Phone.

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### STADACONA FARM **OFFERINGS**

CONSIST OF THE IMPORTED

Clydesdale Stallion, Gartley Edward -26125

Six years old next May. A horse of substance and quality. Two of his get:

STADACONA PRINCE-18422 Foaled June 23rd, 1908

STADACONA EDWARD, a foal of 1909 All this stock must be disposed of as the Farm is sold.
Write or Come to Stadacona Farm

> GUS. LANGELIER CAP ROUGE, QUEBEC. Proprietor

# Put up a Fence that you can be proud of

A Good Fence is more imporant than a good Binder, a good Plow, or a good Mower. You can only use a binder, a plow or a mower part of the year, whereas a fence must give service the year round.



We believe the Leader will appeal to your judgment. It's a handsome, sightly fence, made of heavily galvanized No. 9 hard steel wire throughout, with the famous double-grip lock.

the world make and galvanize our wire to specifications we have proven are best for Canadian conditions.

For defying rust, for withstanding extreme heat or cold, for resisting wear, the Leader stands first among fences. You cannot buy more quality or satisfaction for your money.

Our Booklet tells a lot about the Leader fence. Send for a copy, and you will avoid making costly mistakes when selecting wire fenc-

Also, if ambitious, ask for particulars regarding an agency for Leader farm and ornamental fencing and gates in an unrepresented district. We often send expert fence salesmen to help our agents land big orders. We heartily co-operate with new agents too. You'll find our agency a most desirable one.

Frame & Hay Fence Co., Ltd., Stratford, Ont.

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quality and value. The English goods the price in Canada 71 cents per yard. cost 55 cents per yard, with 16 cents The Canadian cloth sold for 75 cents added for duty and freight, making 1 a yard last year and 77% cents this

year. He also showed two tin plates, the English selling at 41 cents per dozen, the Canadian at 61 cents Mr. Drury also quoted a letter from an importer, Mr. G. B. Ryan of Guelph, who stated that he had to charge 30 to 30 per cent. more for dry goods than he would have to if he had from the control of the

Eighth-That manufacturers combine ader the tariff and crush out comp Drury showed that the manufacturing establishments, which numbered 49. 928 in 1881, had decreased in 1901 to 41,650. He quoted from government reports to show that during the investigation of the tack combine it had been admitted freely that combines existed and that the manufacturers divided their territories and limited their production.

Ninth-That manufacturing establishments water their stock to prevent the public from seeing the large pro-fits they pay. He quoted from the government report of the cotton strike n Quebec to show that an industry rein Queec to show that an industry re-ceiving high protection, which was paying 50 per cent. on its common stock, watered its stock so that it showed profits of only 5 per cent, and at the same time called for higher protection
Tenth—That farmers were justified

Tenth—that tarmers were justified in asking for free trade in agricultural implements in view of the fact that evidence given by the International Harvester Company, during an inquiry in Michigan, had showed that farm

machinery could be manufactured as cheaply in Canada as in the United States. Eleventh-That from 1851 to 1881, or

during 30 years of free trade, Ontar-io's population had increased from 952,004 to 1,926,922, or by nearly a million. After protection came in Catario's population in 20 years increased to only 2,180,000, or less than 200,000.

Mr. Russell did not dispute points

one, two, four, seven, nine, ten and eleven except in a very general way. MR. RUSSELL'S ARGUMENTS

In opening, Mr. Russell scored nicely by claiming that if the public was to adopt the arguments that had been advanced by some farmers that people should not offer advice to farmers unless they were personally acquainted with conditions on the farm; it would mean that farmers could not give advice to the manufacturers, and no one could offer advice to bankers except bankers. He said that he was a farm-er's son, that he had shown prize-win-ning Shorthorns at the Toronto Exhining Shorthorns at the Toronto Established and that he had won more prizes at the Huron County Fair than Mr. McMillan, one of the leading champions of the farmer's cause. Being manufacturer also, he felt that he coul speak on the subject, with the advantage of having a somewhat inti-mate knowledge of both interests affected. His main points were as fol-

First—That protection was not the ause of rural depopulation inasmuch as such depopulation was very manifest in free trade England as well as in the United States. He claimed that it was due to the improved farm machinery, the making of many imple-ments in the cities which were former-

ly made on the farm, and the demand on the part of farmers for advantages not to be obtained on the farm. Second—That the Canadian revenue tariff encouraged the building of diversified manufacturing industries, en-larging the farmer's home market

without bearing unduly on the farmer.

Third—That the tariff did not unduly enhance prices. In proof of this contention, he quoted the United States prices on certain articles used in his prices on certain articles used in his business, which for business reasons we do not specify, together with the Canadian prices on the same articles, which prices went to show that the Canadian prices were but little if any ahead of United States prices, al-though the tariff would have permitted their being with the prices and the prices are the prices and the prices are the prices and the prices are the prices are the prices and the prices are the p their being so.
Fourth — He denied positively that

Canadian agricultural implements were sold in Australia at lower prices than they were in Canada. He claimed that although Australia was a free trade country prices of agricultural implements there were 20 per cent. higher than they were in Canada.

Fifth—That were protected interests charged unduly high prices the remedy was for the government to investigate the circumstances and, if neces-

Sary, reduce the tariff.

Sixth—That where combines existed the anti-combine law should be invoked.

Seventh-That it was impossible to determine the exact cost of manufacture of an article, as this is determin-ed by the overhead expenses, such as salaries, cost of advertising, etc., which were proportionately less when which were proportionately less when business was good than when it was poor and the output was curtailed. Manufacturers such as himself, had to invest hundreds of thousands of dollars in their business and their investments would be ruined by unfair man-

ipulation of the tariff.

Eighth—That our home markets are so extensive that last year we consum-ed 80 per cent. of all we produced and

an addition imported farm produces and in addition imported farm products to the value of \$30,000,000.

Ninth — That the United States manufacturers would not dare to establish plants in Canada as long as (Concluded on page 19)

Buy a "BT" Litter Carrier

and save yourself the dirtiest and most disagreeable job about the farm. With a litter earrier four barrow loads of manure can be removed from the stable at one time—no, heavy wheeling, no climbing through mud wheeling, no limbing through mud be dumped lessered, the manure can be dumped as a second save roughly and save reloading.

The "BT" LITTER CARRIER has splendid features of advantage over se to tell you about.

"BT" Steel Stalls and Stanchion Should be in every Stable bec

T hey will make it easier for you to keep

I hey will make it easier for you to keep your stables clean.

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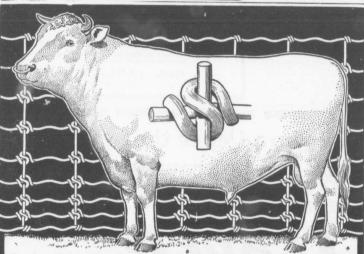
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We have just gotten out new catalogues on both of the above lines, you are interested, send us your name and address, and we will mit you copy of same. In writing, let us know how many feet of track you expect to require, and how many cows you intend stabling. WRITE TO-DAY TO:

Beatty Bros.,

Fergus, Ont.



### Is Anything On Your Farm Stronger Than A Bull?

If your fences are "IDEAL" Woven Wire, made of large gauge No. 9 HARD STEEL wire, heavily galvanized and with the verticals and horizontals clamped together with the Ideal Lock—that CANNOT SLIP. Bull-strong; hog-tight; horse high—a REAL fence.

NO! If you have wire fences of the ordinary kind—fairly good for a few years, but with no reserve strength to stand hard usage—because poorer wire makes them, and stretching them taut takes the utmost of their little strength to

### All Large Guage Number 9 Hard Steel Galvanized Wire

From top to bottom Ideal Fence is all the same—large gauge No. 9 hard steel wire, heavily galvanized and therefore rust proof. ook. Note lock and its uniform smooth curve—no sharp turns to weaken the strength of the lock and yet a most positive grip—in FIVE different places. This is the fence that has ample springiness, immense strength, and the ONE LOCK THAT'S GOOD. Drop us a card and get our catalog telling all about the many styles and merits of IDEAL FENCE. Sample lock comes with it. Write us today.

McGREGOR BANWELL FENCE COMPANY, LIMITED, WALKERVILLE, ONTARIO

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#### Poultry Farming on Vancouver sandy land, and with very little Island

Poultry Farming on Vancouver Island

S. G. Hanson, Nanaimo Dist., B.C.
About seven years ago I bought a farm on the sea coast a most lovely place. It had been region to be place to the dependent of the place out of the dependent of the dependen

sandy land, and with very little labor.

I sold my first farm, and bought 10 acres at Duncan, B.C., intending to run 1,000 layers, keep one horse, and buy everything else. I had to clear the land by contract and put in an expensive water system in the fall. That winter I engaged a carpenter and together we put up a brooder, house 110 feet leng, (hot water system), with a capacity of 2.000 chicks. We also put up a laying house for 150 hens. I bought flow tors, and about 1,400 eggs from a breeder near by for hatching. I bought five incubators, each of 240 eggs capacity. Frem nearly 4,000 cggs set in these incubators I got 200 unllets to the laying ago. It was not till the following spring, when I lost 2,000 more eggs, that I knew positively that the incubators were at fault, but what I found left no room for doubt success again.

To go back with my story, I

ness. He had never before handled more than 150 hens, but he intended to run 400 hens with me. With the experience I now have, I know that this man's method of laying out a plant for 400 hens was impractical, and would never have paid well. He just in May, and hatched 402 pullets, however, gave me my first ideas of which laid remarkably well in Janu-



The Laying Houses on a Large British Columbia Poultry Plant

The hen house in the near foreground is 300 feet long, and has a capacity of 400 birds. The other house to the left is 180 feet long, and accommodates 400. Note the colony houses in the distance. The illustration shows part of the Hillcrest Poultry Farm, owned by S. G. Hanson, Duncan, Yancouver Island, B. C.

B. C. perience have ecensiderably widened perience have ecensiderably widened any horizon since.

As a start that August we bought 120 Black Minorca eggs. They hatched on September 8th. We had 35 \$8,194 met. I new have houses built pullets laying at the end of the following February. I kept accounts acres with a total capacity ent crops paid. These birds laid any average of 176 eggs each in 12 months, and made a net profit of \$8.30 met. perience have considerably widened my horizon since.

As a start that August we bought 120 Black Minorca eggs. They hatched on September 8th. We had 35 pulled laying at the end of the foliulate laying at the end of the foliulate laying at the second of the foliulate laying at the second of the foliulate laying at the end of the foliulate laying at laying at laying a second of the foliulate laying at laying a second of the foliulate laying a second of the foliulate laying a second of the foliulate laying at laying a second of the foliulate laying a second

A PROFITABLE BUSINESS

This was more than I was making This was more than I was making from all other sources on my farm put together. I had 100 ewes and four cows, grew about 10 acres of grain, four acres of potaces, 15 acres of hay, and half an acre of orchard. And I made this poultry money on about one and a half acres of poor

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

PURE BRED FOWLS GIVEN AWAY FREE in return for new yearly subscriptions to Farm and Dairy. A club of four new subscribers will bring you a pair of pure-bred standard fowls. Write Circulation Manager, Farm and Dairy, Peterboro.

EXCLUSIVE BREEDER of pure bred Bar-red Plymouth Rocks. Sweepstakes champion female at Toronto for two years. Stock for Sale, prices reason-able.—Leslie Kerns, Preeman, Ont.

of 1.700 eggs. Next year 1 trink is shall clear over \$4,000 ml. have a man to help me for three minds in the apring. After that, the labor in the apring. After that, the labor is the labor in the breeding season. Poultry farming is the only possible pursuit cn high priced land, in places where labor is scarce and expensive. No other kind of farming will pay 20 per cent. to 38 per cent. on the total investment except poultry.

#### Prevention of Red Mites

The rosting quarters in our poultry house are overrun with small red insects. How can we get rid of them?—C. B M., Peterboro Co., Ont.

There is nothing so destructive to red mites as coal oil. Keep the roesting quarters clean and spray on coal oil with a parliagrance of the coal o rocsing quarters clean and spray on coal oil with an ordinary cow sprayer, every day until the mites are dis-posed of. Always spray the roosts twice a week as a prevention of all such vermin.

### **GUNNS** Prairie State" Incubators

#### Get the Most Chix

because they come closer than any other incubator to matching Nature's own conditions. The hen sitting on the ground is still, on a small scale, the most successful hatcher. But she can't hatch 20 or 30 dozen eggs at a time, as one won't hatch them at the right season to make winter layers or cookers! that are ready for market at off seasons, when prices are highest.

The most successful Canadian poultry raisers therefore use the "Prairie State" Incubator because it practically equals, on a great big scale, the hen's success with her little setting.

Gunns Prairie State Incubators are built not so much to sell, as to hatch chicks. Note that. We are making incubators and marketing them at rock-bottom prices simply because they will help in our campaign for "More and better eggs and poultry"—not because we want to make profits

Gunns Prairie State Incubators are honestly made in our own factory at Ste. Therese, P.Q.—the finest wood-working factory in the Dominton. No poor material or filmsy construction is tolerated, for we have a reputation for 40 years of square dealing at stake

They are designed so that the **heat is distributed evenly** to every egg in tray. There are no cold or hot spots.

The correct temperature is maintained, within a fraction of a degree, whether the temperature outside the incubator be zero or 80 degrees.

The moistened sand tray gives an absolutely even and easily regulated supply of moisture to every egg. This prevents drying up the eggs, and brings out big, strong, healthy chicks.

An even supply of fresh air, free from lamp fumes, is provided, greatly increasing both the hatch and the vitality of the chicks.

Thus Gunn Frairle State incubator supplies so perfectly the conditions of antural hatching that it not only brings out a very high proportion of chicks, but the chicks live. When

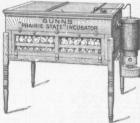
#### **GUNNS UNIVERSAL HOVERS**

are used for brooding, results are even better than those secured by natural methods. These Hovers enable you to raise chicks successfully at any season and/in any numbers. Gunns Combination Colony House Brooders make the most convenient, practical equipment known.

most convenient, practical e Write for our book on Practical Poultry Raising. It Prairie State line, and how to raise poultry for profit by common sense methods that have proved successful. Meantime, note these prices:

GUNNS Prairie State Incubator No. 0. -100 hen eggs-\$18.00 No. 1.-150 " - 22.50 No. 2.-240 " - 32.00 No. 3.-390 " - 38.00

GUNNS Universal Hover With lamp, lamp case and smoke couductor \$7.00



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"Gunns Prairie State Incubator Gets Chix."

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Branch Office:-North Battleford, Sask, During 1910 we sold over 133,400 acres; during the past four years we have sold over 400,000.

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CHRCULATION STATEMENT
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Dairy exceed 5.69. The actual circulation of each issue, including copies of the
order of the company of the circulation of the paper, showing its distribution by countries and provinces, will be mailed free or request,

#### OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY

We want the readers of Parm and Dairy to feel that the readers of Parm and Dairy to feel that the process of the proce

#### FARM AND DAIRY PETERBORO, ONT.

#### START AT THE BOTTOM

Probably there is no other branch of farming about which many people become so enthusiastic as they do over poultry. The business looks fine on paper. It offers great profits, which with many are being worked out to a tangible reality. The success of the business is for the most part wrapped up in details. Poultry raising is a business made up of little things, and the success or failure of it depends for the most part wholly on the attendant-his judgment, his regularity, and the interest which he takes in the work.

We need to go slow at the start in the poultry business. There is no other branch of farming fraught with such possibilities of loss; hence the wisdom of starting at the bottom, then there is only one way to go and that

The tendency in connection with poultry is for people to become wildly to a higher and more profitable plane. of agriculture.

enthusiastic over the industry. They From the producer's standpoint the rush into the business on a large scale, and as surely meet their fate in the course of a few years. Large establishments for the production of eggs or poultry, which have sprung up almost as it were in a day, have seldom survived the third or fourth

In all things pertaining to poultry, Farm and Dairy would counsel against undue haste and expense. As the business is learned and as returns begin to justify enlargement, then, and then only in the light of one's own experience and the best information and experience of others available, is it safe to venture out on the broader road. which offers such allurement and which to an increasing number is proving a glowing reality.

#### AIM TO MARKET POULTRY EARLY

Much farm poultry fails to return a profit because it is kept too long. There is a most favorable time each year for selling poultry and the greatest profits are realized by those who manage their flock so as to have their stock ready for market at that time. Money in abundance is lost through keeping poultry for too long a time. Most of the birds are held until snow comes or until it freezes up. Then they are all gathered in and placed upon the market at once. There is then a glut on the market. The birds are improperly fitted or are not finished at all, and the price drops.

One should aim to feed the young stock well throughout the summer, to grow them quickly, and to get them on the market early. Then will the best prices be realized. If kept until later in the fall the great bulk of the poultry is placed on the market and then much of it is sold at a price that will not pay for the feed consumed.

It is always a mistake to withhold feed from young stock. Young stock of any kind can make more profitable use of feed than it can after it has become more mature. This fact is particularly true of poultry. Now that hopper feeding has proven its worth, and seeing that there is so little labor connected with feeding the birds where this system is practised, there is no excuse for any one not having good poultry well fleshed to place on the market early when the demand is keen. Birds that have been hopper fed throughout the summer will be ready for an early fall market without any special fitting in the way of crate fattening.

#### MONEY THAT OUR FARMERS SHOULD HAVE

During the past year there has been brought to the attention of the producing public much information concerning the unhealthy state of the egg trade. We have learned that something is very radically wrong with the business. In the case of a few centres, notably among which is Peterboro, some steps have been taken with a view to remedying existing conditions and to raise the business

trade in dressed poultry is little if any better than that in eggs.

It is passing strange that commission men can buy chickens from farmers, crate them, buy feed and buy milk from these same farmers, ship it to the city, and pay heavy charges for transportation, pay a high rent on the highpriced land in the city where they crate fatten the poultry-pay good wages-yes, what would be very high wages on the farm-to a man or men to feed these birds, and then make money! We should like to see some man try that game with steers. The result of such a venture would be cer-tain failure. There is no other business other than poultry that can stand up under such a test.

It is time for us farmers to waken up. We ought to have the profits that come from fleshing our poultry. The only explanation that can be offered, as to the reason we do not get it, is that a merchant or an outsider would have a difficult proposition to get a dollar or dollars from us, but we fail to take notice of, say, 10 cents. There is between 10 and 20 cents profit to be made on each and every chicken that we crate fatten. This amount figures out to about 50 cents or \$1 an hour on our time that we might devote to the work of fattening our poultry for market.

#### POULTRY, FRUIT AND BEES

One of the nicest combinations that can be worked out with satisfactory profits on a small acreage, is that of poultry, fruit and bees. These three properly managed on a small acreage will give returns and net profits that puts the income from many-yes, most large farms, to shame. J. W. Clark, of Brant Co., Ont., a well known poultry man and Institute lecturer, in 1909 made over \$3,500 from his 25 acre farm. While in conversation recently with an editor of Farm and Dairy, he estimated that his receipts would much overrun that amount for 1910.

Confronted by the facts of these splendid results from 25 acres, all must own that poultry, fruit and bees are a great combination. Mr. Clark has a family of six and most of their living has been taken off their farm. and is not included in the returns as stated. The chickens and bees are kept on 10 acres. During the past season Mr. Clark's bees produced two and a half tons of honey, which he sold wholesale at 10 cents a pound. Mr. Clark avers that there is money in small fruit, but he states emphatically that apples are the best paying proposition. Recently he has set out more of his limited acreage to apple and pear trees, and he expects soon to have that 25 acre plot producing \$7,000 a year or more. He says that it only means planting out more fruit trees and erecting more poultry houses.

The splendid possibilities of poultry and horticulture on a small acreage in Ontario are abundantly demonstrated in Mr. Clark's experience. Many Ontario farmers may well profit from what Mr. Clark has done and specialize more along these particular lines

#### THE NEW OPEN AIR POULTRY HOUSE

The latest thing in poultry houses for winter egg production is shown and described on page nine of this issue. This house is radically different from what was thought to be O.K. some years ago. On casual observation it appears to be too simple and too great a change from the usual order of things to give satisfactory results. But it is results that count, and this new wide open front fresh air house is giving splendid satisfaction with those who are using it.

One must not be carried away with the idea that this house is comparable to any old shed or hen roost, which is commonly thought to be good enough for the hens. On three sides this structure is as tight as a drum. No matter from what direction, unless it is due south, the wind may blow, there is shelter in the building from any direct draught. The house is dry, has an abundance of fresh air, and consequently it harbors no smell of

The building is a low-down, warm structure. The narrow opening to the front is not more than sufficient to provide efficient ventilation and to maintain a moderately uniform temperature in the house throughout day and night. The house might not work so well did it not have a large window in the west side. This window must be hinged and in summer time opened up; in real warm weather the door must be kept open also, else it would be too hot.

The building, in that it accommodates 100 hens, greatly economizes on labor, which off-sets the disadvantages there may be of not having the birds in four houses containing 25 each.

In all particulars this house bids fair to give satisfaction. When supplemented with one or two more colony houses, such as may be built for about \$15 each, this structure should be the thing for the average farm flock of poultry.

#### A NOTED POULTRY CENTRE

About 10,000 chickens go out to market annually from the district in the vicinity of Fergus, Wellington Co., Ont. This poultry is of first grade. It realizes to the farmers from 13 to 16 cents a pound, live weight. About 75 per cent, of the dressed chickens shown at the Guelph Winter Fair in recent years have come from this neighborhood. On investigation we learn that the cause for this is traceable to a man named Adam Armstrong, of Fergus, and to the Poultry Department of the Ontario Agricultural College.

About 10 years ago, Mr. Armstrong, who runs a flour and feed store, made fattening crates and loaned them to the farmers in his district. He sent out printed matter telling the farmers how to fatten their birds and what he would give them for the fattened birds delivered alive. These chickens when delivered are dressed and shipped to Montreal.

Poultry has proven to be exceedingly profitable with the farmers of the reg DOL end and

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district referred to. They keep for are the three months of non-producthe most part but one breed of chickens-the Barred Plymouth Rock. If others elsewhere would become convinced that one breed of poultry is the proper thing for them, and if they would set out on the path blazed by Mr. Armstrong and his co-workers, what a splendid thing would result What a great thing it would be if the farmers in each county would agree among themselves in regard to what one breed of poultry was best for them, and then go after this business in such a systematic way as the farmers near Fergus have done, and which has been demonstrated to be so satisfactory and so profitable!

#### RECORDS OF INDIVIDUAL HENS

Records show up some remarkable facts in the case of hens, as they do with dairy cows. Some facts ascertained by Professor Graham of the Ontario Agricultural College, in connection with the individuality of hens, almost surpass belief, but complete records of the egg production were kept, and there is no ground on which to doubt them. One particular hen, a pullet hatched last spring, laid for Professor Graham 94 eggs up to December 31st. She was hatched early in April. Of the 94 eggs laid before the New Year, she laid 68 consecutively, one each day. Four other hens, full sisters to the former one, laid in the neighborhood of 40 eggs each consecutively. Other hens, in the same pen, which were hatched at the same time, were raised together, and were fed together out of the same troughs, had not laid an egg up to January 1st. Some others again had laid only an indifferent few.

It is established that there is beyond doubt a great difference in individuals and in strains of poultry as there is in other stock. Some system of bookkeeping such as will afford one a fair idea of the actual eggs produced and what they cost should be kept in connection with every flock.

Countless flocks would be condemned were such information available in regard to them. On the other hand, poultry would be given more prominence by many people did they know and realize how profitable some of their

During October, November and December it requires more feed to maintain poultry than at any When Hens other time of the year. Eat Most Experiments at

that supposing 10 cents was the cost of feeding a hen for a month other than one of the three mentioned, it would require 13 cents a month to feed that hen during October, November or December. That is a point worthy of more than passing notice. One had better get rid of surplus stock early in the fall. We might figure that poultry would sell for two cents a pound higher later on, or at Christmas time, but in view of the facts here stated that extra price would have little to do with increased profit. And then

tion with the average flock.

Tuberculosis is now recognized to be not an uncommon thing amongst cattle. Hogs that have Tuberculosis followed after cattle, or

Amongst Hensthat have been fed skim

milk from tuberculous herds, are also known to be affected with tuberculosis. The latest information given out in regard to poultry diseases is that tuberculosis is surprisingly prevalent amongst hens. Those anæmic birds, which are going "light" and are gradually pining away, are invariably "lungers." If tuberculosis is as prevalent amongst poultry as we have every reason to believe it to be, it is most fortunate that cold fresh air houses have been discovered to be the most suitable for egg production. Generally speaking, we cannot too soon adopt this style of house for the sake of the health of the birds.

Many people figure March as a winter month in reckoning egg production. To do so, is not One of the fair. Records of egg

Best Months production show March to be one of the best months for getting eggs. When figuring on winter egg production, we need to leave the month of March out of consideration. October, November, December, January and February are the five months when eggs sell highest, and when they are most difficult to produce.

One needs only to stand behind the egg chandler in any poultry produce house to find that on

Sympathy for the average eggs reach Consumers the consumer only after they are from three

weeks to one month old. Countless numbers of them are of very much greater age. As producers we ought to feel sorry for the consumer in the city who must eat such eggs. What is the matter? Have we been paying attention too long to the production end? Perhaps so; at any rate there are some things in connection with marketing poultry and its products that need cleaning up.

Is it possible to judge poultry from a utility standpoint? According to many of our best poul-

Utility trymen, poultry, quite as well as other classes of Value stock, can be judged on Guelph College prove their utility value. The success of any breed of stock in the long run is based on its utility value. The average poultryman has no use for a breed unless it will bring a living profit in either meat or eggs. Our poultry shows by judging entries largely on purely fancy points tend to discourage breeding for utility points. It would be in the best interests of both farmer and fancier to have the scale of points for judging at our shows readjusted and placed more on a utility Lasis. More of the prize money should be given in the purely utility these three heaviest feeding months classes.



### A Time Saver & Money Saver to Farmers

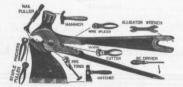
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Our Illustration Shows the Many Uses this Hatchet can be put to.

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It is an ever-ready tool, in which is combined ten different distinct tools. 
It is a compact, clean-cut combination tool scientifically made and balanced. 
It is a compact, clean-cut combination tool scientifically made and balanced and the Hammer part is well balanced, and has just the right weight for heavy driving. The Hatchet is tempered to a degree of perfection, and will carry a driving. The Hatchet is tempered to a degree of perfection, and will carry a which it will be put, while the Alligator West to stand the twists and turns to which it will be put, while the Alligator when the property of the property



Free, for only 2 new yearly subscriptions to Farm & Dairy. Samples of paper sent on application to

CIRCULATION MANAGER PETERBORO, ONT.

# What is the weight of a gallon of cream? fur buyer calculates it as 10.25 lbs.—G. W. L., Wellington Co., Ont.

H., Wellington Co., Ont.
Your correspondent does not state
the richness of his cream.

The weight of a gallon of cream will vary slightly according to the percentage of fat it contains and the amount age of rat it contains and the amount of air and gas in it. According to the specific gravities of sweet, fresh, cream varies slightly, according to separator creams of different rich-the percentage of fat in the cream

Creamery Department
Britter makers are invited to send continuous on matters resisting to the continuous matters resisting to the continuous matters in the continuous matters

The authors of this book also state that "the specific gravities of the cream given in the table refer to that fresh separator cream only. Considerable air is incorporated during the separation, and cream of this kind is therefore lighter than gravity cream of corresponding fat con-

and the amount of air and gas incorporated. Conversely the volum a given weight of cream varies slightby for the same reasons. In actual work, however, not much error will creep in, if 10 pounds of cream testing 25 to 30 per cent. fat be considered as a gallon.—J. F. Singleton, Creamery Instructor, Kingston, Ont.

#### Good Butter Making Methods

Mrs. Chas. Cocklin, Simcoe Co., Ont. Firmer butter can be secured when Firmer butter can be secured when churning a thick than a thin cream, hence we take a reasonably thick cream. We use a hand separator, It is the easiest, quickest and cleanest method or skimming milk. We can get more cream and butter by using the separator than from any of the old methods and with less labor. We cool the cream from each separator.

We cool the cream from each separaon before mixing it with old cream. it takes us two days to gather enough cream to churn. We set the cream ripen for 24 hours, stirring it fre-quently. It takes from 16 to 30 mm-utes to churn at about 60 degrees x The buttermilk is then drawn off, the butter washed in the churn with fresh butter washed in the churn with fresh cold water and saited at the rate of one onnee te the pound. We work the butter thoroughly until every but of water is out of the butter, except that which is thoroughly incorporated. We let the butter stand in a cool place until it hardens, then print. We weigh each pound of butter separately to be sure that we have full

ately to be sure that we have full weight. We prefer printing the butter to packing in tubs, as those who ouy from us on the market see our names on the wrappers, and come oack knowing that they will get good outter and tull weight

#### Increase Proifts by Cooling Cream

With little or no increase in in-vestment or labor it would be pos-sible for patrons of creameries to investment of creameries to instable for patrens of creameries to ing a little more attention to the care of their cream. The best quality is absolutely necessary if we are to get the highest possible price for our get the highest possible price for the highest price patrent price for the highest p perature immediately after it comes

Trom the separator.

To show the value of quick cooling To show the value of quick cooling upon the keeping quality, a sample of milk was kept at 98 degrees Fahrenheit (the same temperature at which it was drawn from the cooval and it curdled in 18 hours. The same size sample of the same milk was cooled to 70 degrees Fahrenheit was cooled to 70 degrees Fahrenheit and it did not curdle until 48 hours had elapsed. Another sample was cooled to 50 degrees and it kept for 10 days without curdling. Although these figures would not be the same for all samples of milk, it brings out the fact that bacteria which cause milk to sour grow very slowly at low temperatures. low temperatures.

low temperatures.

To bring out the fact that it is possible to cool the cream much quicker by placing the can in cold water than by allowing te stand in the air, a four-gallon can of cream at 98 degrees Fahrenheit was placed in the stand of 644. in water having a temperature of 64 degrees. The cream cooled to the temperature of the water (64 degrees) in two hours. Another can of the same size, containing the same of the same size, containing the same amount of cream, at the same temperature, was alleved to stand in the air having a temperature of 45 degrees (19 degrees lower than the temperature of the water) yet it did not cool down to 64 degrees until 10 hours had elapsed.—B. V. C.

Have you forgotten to renew subscription to Farm and Dairy?

#### Education Must Come First

G. H. Benkendorf, Madison, Wis. Education must necessarily precede any permanent reform. Ignorance is usually responsible for the unclean and unsanitary condition of a creamery. Let the owner of a factory and the factory operator realize the imthe factory operator realize the im-portance of a clean building and equipment and there will soon be an improvement. Let the patrons be con-vinced of the importance of herd improvement of well ventilated, well constructed barns, and that it is to their own advantage to deliver good raw material, and the quanty of the butter will soon improve.

An enthusiastic buttermaker can do a great deal of good in his community. Granting that the conditions under which he is working are not always of the best, still tremains true that if he is filled with the proper spirit he will be able to change proper spirit he will be sole to change these conditions very materially. An enthusiastic buttermaker working with an enthusiastic manager can do much to solve the problems which confront them from time to time.

#### An Egg Station at a Creamery S. G. Hanson, Nanaimo Co., B.C

We have, in conjunction with our creamery, an egg station. It started just one year ago. The benefit of cooperation in this connection is well shown, when I tell you that I have shown, when I tell you that I have made 10 cents a dozen more through selling cocperatively than when I sold my own eggs to grocers and to hotels. In any community where there are 2,000 hens it will pay well to cooperate in selling produce and in buying supplies.

We buy cur wheat from the Northest, 400 tons at a time. The bank dvances the money. We can pay west, 400 tons at a second pay advances the money. We can pay cash or give notes when we take delivery of our special lots. Wheat is selling in Victoria and locally at \$2.50 a cwt. Our wheat ccst us last week \$1.75.

we sell in the highest market and buy in the cheapest we can make money. But if, as many farmers do, we sell in the cheapest and buy in the dearest market, we will for ever be in the local storekeeper's debt., as many in some districts always

#### Comment on Composite Samples

M. J. Lewis, Victoria Co., Ont.
We take composite samples and test
our cream once a month. We use
liquid formalin for preservative and
never have any trcuble in getting a
satisfactory test. So far we have always used the pipette for taking the
sample but we will probably stat: with
the scales next spring. As a general
rule, we have no trouble with our
patrons through dissatisfaction over
the test. The tests are fairly uniform M. J. Lewis, Victoria Co., Ont. the test. The tests are fairly uniform from month to month. If a test varfrom menth to month. If a test varies noticeably from the month before, we will make two or three tests to satisfy ourselves that we are right and then keep that sample to test before the patron in case he is dissatisfied withour results.

For some time we have been thinking of taking allowed samples.

ing of taking aliquot samples,—that is a sample proportionate in weight to the amount of cream delivered. If to the amount of cream delivered. If all patrons would take a uniform cream, the same size of sample each awould be all right, but they de not. It takes very little to change the test from day to day and under our present system of taking samples, we can never be sure that we are giving the patrons credit for exactly what they deliver.

Strained Relations.-Tw crobes at on the pantry shelf, and watched with expressions pained, the milkman's stunts; and both said at once: "Our relations are getting strained!"

### World's Greatest Separator Standard QUALITY **FIRST** PRICE **AFTERWARDS**

### Does it Pay to Buy a Cheap Separator?

Hundred, of out-of-date, che-sply constructed, low-priced Cream Separative are being discorded by their users, who have been awakened to the flaw them to be a superior of the second second to the flaw to the second seco

### Made up to STANDARD, not down to PRICE

### Points of Excellency Low Supply Can Centre-balanced Bow1 Detached Spindle

Swinging Cream

Strong Sanitary Base

Good Material Throughout



Points of **Excellency** 

Crank Shaft Proper Height

Crank Short

Instantaneous Clutch

Enclosed Gearing

Interchangeable Bearings

Self

Oiling

Closest skimming, easiest turning, easiest to clean. Everything that goes to make a good Separator is best in the "STAN-DARD." There is no other machine just as good. PROVE THIS BY A TRIAL. Catalogue will be sent free and explains all about it. Send for it TO-DAY.

The Renfrew Machinery Co., Ltd. RENFREW, ONT.

It is profitable to convert small or large amounts of skim-milk into dry Casein Write for our proposition and state amount of milk you have daily in flush seaons

The Casein Mfg. Co. 11 PINE ST. NEW YORK CITY it.

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Cheese Department

Makers are invited to send contributions to this department to this department, to ask questions on matters relating to these matters relating to the sense of the competition of the competition of the competition of the competition is keen the maker of the competition is keen the maker are not refuse milk elivered at the cheese factory as suggested by Mr. Humphries in Farm and Dairy recently is a prob-

I know from my own experience that where the factories are small the makers all try to get all the milk possible. I think there should be a law fining makers who take in milk that has been refused by another maker. A good heavy fine would prevent a lot of this crooked work among the makers. makers.

#### To Divide Proceeds Justly

Henry H. Rennie, Dundas Co., Ont.
The milk as received at our factree is paid for according to the test.
The milk as received at our factree is paid for according to the test.
The milk as the straight fat or in other
words, the straight fat or in other
words, the straight fat or in other
words, the straight fat or in the
tright; if it is not allogether right,
then it is the nearest right of any
system yet devised for distributing
the proceeds at the cheese factory.
We have now paid for the milk according to the straight fat for two
cording to the straight fat for two
years. I have been asked why it is
that more factories de not pay by
test. Personally, I do not know of
another factory in Dundas County
that pays for cheese making according
to the percentage of butter-fat it contains.

#### Dairy Notes

Dairy Notes

It is stated that eight cheese inctories in Brockville district will abandon cheese-making for 1911, as American representatives are closing contracts for their supply of cream. The Huntingdon Dairymen's Association held their 39th annual convention in Howick, Que, on January 20th. Mr. T. Mason, of the Live Stock Branch, Ottawa, Professor El. ford, cf Macdonald College, C. F. Whitley, Dairy Division, Ottawa, John Fixter, Macdonald College, and Miss Laura Rose, Guelph, were the principal speakers. All reports of this meeting will appear in Farm and Dairy next week.

#### Farmer vs. Manufacturer

(Concluded from page 14) ket being 12 times that of Canada, there was a danger that the United States through a mere whim of its politicians, might ruin their investments by cutting off their market in the

by cutting off their market in the United States.

Tenth—That freer trade would lead to commercial union.

Eleventh—That many products of the farm frequently sell for higher prices in Canada than they do so the United States, and that many farm implements can be bought for less in Canada than in the United States, and that reshing the control of the

support of this he claimed that threshing machines in the United States cost \$569 and in Canada \$511.

Twelfth—That the Canadian tariff had led 200 United States firms to establish branches in Canada, representing an investment of \$229,000,000.

Thirteenth—That no country could legislate Canada out of its home markets, but that they could legislate to ut of its foreign markets.

Mr. Drury did not answer Mr. Russell's contentions under the headings of two, four, seven, eight, nine, eleven.

of two, four, seven, eight, nine, eleven, twelve or thirteen. In reply to Mr. Russell's sixth point, Mr. Drury claimed that it is practically impossible to gather authoritative information about gather authoritative information about combines owing to the secrecy with which they are manipulated, and that therefore the anti-combine law is of little use. He denied point blank Mr. Russell's tent point. Mr. Drury had effective replies for some of Mr. Russell's tent points but did not have time to give them. Close attention was given to both speakers. It was so close there was but ititle applause. The debate was instructive and helpful. Were more such debates held they should do much to overcome feelings of distrust on both sides.

both sides.

### SEE THE BEST **FIRST**

Our local representative in your town will be pleased to show you a

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FOR SALE—Iron Pipe, Pulleys, Belting, Rails, Chain. Wire Fencing, Iron Posts, etc., all sizes, very cheap. Send for list, stating wha: you want. The Imperial Waste and Metal Co., Dept. F.D. Queen street. Montreal

FOR SALE—One ten hp. Upright Boller. New flues. Will sell cheap. Write for particurars. John M. Sherk, Pt. Abino Creamery, Ridgeway, Ont.
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Farm and Dairy.

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EXCLUSIVE BREEDER of pure bred Bar-red Plymouth Rocks. Sweepstakes cham-pion female at Toronto for two years. Stock for sale, prices reasonable.—Leslie Kerns. Freeman. Ont.

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FOR SALE.—Combined Cheese and Butter Pactory, doing good business in South Western Ontario. Only those who mean busin'ss need apply. Full particulars made known. Apply Box 600, care Farm and Dairy

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CHESSMAKER—Married Man. 18 years' experience and certificate, wishes position; can make butter also; would hire by month or make by 100 lbs. Box 150 Farm and Dalry.

BARRER ROCK EGGS for batching from choice utility stock. Sevents-five cents for thirteen; from protock, one doil are the book your order.—Nelson. Smith. Jerseyvills. Ont.

# How "Eastlake" Steel Shingles will save you money



Talk No. 4

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Leghorns, Bawyr paving strains. Write
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Rundie, Brighton, Ont.

Renew your subscription now.



ROP the subject when you cannot agree; there i no need to be bitter because you know you are

### The Road to Providence

(Copyrighted)

MARIA THOMPSON DAVIESS

(Continued from last week.)

(Continued from last week.)

SYNOPISI OF THE POLD TO PROVIDENCE

Mrs. Mayberry, a country physician's widow, tiving near the town of Providence, has taken into her home Ellions due to be actifully young woman and a famous singer who has mysteriously lost her work to the Mayberry is much low of the country of the skill with which she treats minor ills. Her son Tom is a rising doctor in the city, but among the home neighbors there is a humorous preference for "Mo-ther" Mayberry's remedies. In learning to mix and bake "light bleenits" and accomplishing other domestic take Sizes Wingate becomes happier than she has been complished other domestic takes Sizes Wingate becomes happier than she has been down the state of a poor missionary. Miss Wingate discover Luther Hathways, the little son of a poor missionary. Miss Wingate discover Luther Hathways, the little son of a poor missionary. Miss Wingate discover Luther Hathways, the little son he, in an anxious consideration of her future, realizes that his strongest desire in life is to be able to restore her power to sing.

"But you want his wife to-to love Springfield and nelephants and camels him, don't you?' gate, as she raise frankly questioning eyes to Mayberry, who was snipping threads from her completed task.

"Oh she'll do that and no trouble! But a man oughter be allowed to sense his wife have got plenty of love sense his wife have got pienty of and affection preserved, only he don't know where she keeps the jar at. A know where she keeps the jar at. A leav. I don't want Tom Mayberry I say, I don't want Tom Mayberry spoiled. What did I do with that other sock?" And Mother began to hunt in her darning bag, in her lap and on the floor. and on the floor.

"Here it is," answered Miss Wingate as she blushed guiltily, "I darned it." And she handed her handiwork

it." And she handed her handiwork over to Mother Maylerry with tre-pidation in voice and expression.

"Well, now," said Mother as she inspected the tight little wad on the blue heel. "It was right down kind of you to turn to and help me like this, but, honey-bird, Tom Mayberry would walk like a hop toad after he'd done got it on. You have drawn it had. I don't know no better time done got it on. You have drawn it bad. I don't know no better time to learn you how to darn your husband's socks than right now on this one of Tom's. You see you must begin with long cross stitches in the—Now what's all this a-coming!" And Mathor Manhouries of the coming and the coming and the coming are coming and the coming are coming and the coming and the coming are coming and coming and coming and coming are coming and coming and coming are coming and coming and coming and coming are coming and c Now what's all this a-coming!" And Mother Mayberry rose, looked down the Road and hurried to the sidewalk with the darning bag under her arm

and her thimble still on her finger.
Up the middle of the Road came in a body, the entire juvenile population of Providence at a breakneck speed and farther down the street they were followed by Deacon Bostick, coming as fast as his feeble old legs would bring him. Eliza Pike headed would bring him. Eliza Pike headed the party with Teether hitched high up on her arm and Martin Luther clinging to her short blue calico skirt. They all drew up in a semicircle in front of Mother Mayberry and front of Mother Mayberry and Miss Wingate and looked at Eliza expec-tantly. On all occasions of excite-ment Eliza was both self-constituted and unanimously appointed spokes man. On this occasion she began in the dramatic part of the news without any sort of preamble.
"It's a circus," she said breathless-

"a-moving over from Bolivar to ren's expressed.

want his wife to—to love springness and meepings and Misvone" asked Miss Win-raised very large and Pratt and Deacon and Mr. Hoover tioning eyes to Mother and everybody is a-going over to watch it pass—and we can't—we can't!"
Her voice broke into a wail, which was echoed by a sot and a how! from across the street just inside the Pike gate, where Bud and Susie pressed their forlorn little bodies against the palings and looked out on the world with the despair of the incarcerated in their eyes.

"Why can't you?" demanded Moth-

er. "Oh, Maw have gone across the Neb to Aunt Elviry's and left Susie May and Bud being punished. They can't go outen the gate and I ain't agoing to no circus with my little brther and sister being punished, and I wen't let Billy and Ez go either." By this Billy and Ez go either. By this time the whole group was in different stages of grief, for the viewing of a circus without the company of Eliza Pike had the flaver of dead sea fruit Pike had the flavor or dead sea Iriui their small mouths. From the heart in Eliza's small bosom radiated the force that viriled the lives of the whole small-fry congregation, and a circus not seen through her eyes would be a dreary vision.

"Now ain't that too bad!" said Mother Mayberry with compassion and irritation striving in her voice. "What did they do and just what did she say?"

"Susie hurted Aunt Prissy's feelings, by taking the last biscuit when they wasn't one left for her, and Maw said she would have to stay in the yard until she learned to be kind and respectful to Paw's sister. She did-n't mean to be bad." And Eliza pre-

n't mean to be bad." And Eliza pre-sented the case of her small sister with hopelessness in every tone. "Well, Susio," said Mother May-berry," dort you feel kind to her vet?" There was a note of hone in Mother's voice that silenced all the wails, and they all fixed large and ex-norant results. pectant eyes upon this friend who never failed them. By this time the Deacen had joined the group and his gentle old group and his gentle old eves were also fixed Mother Mayberry's face, with same confident hope that the child"I've done been kind to her,"

sniffed the culprit.
"I let her cut all my finger-nails Thet her cut all my finger-nais and wash my ears and never said a word. She have been working on me all afternoon and it hurt."
"Susie," said Mother Mayberry,
"you can go over to the cross-roads

"you can go over to the cross-roads and see that circus with the Deacon. They can't no little girl do Letter than that, and your Maw just told you to stay until you learned that lesson. You are let out! Now, what did you do, Bud?"
"I slid can the lean-to and tored all the back of my britches out. She couldn't stop to mend 'em and she said I could just stay front ways to folks until she come home, and they

said I could just stay front ways to folks until she come home, and they shouldn't nobody mend 'em for me.' Bud choked with grief and mcrtifica-tion and edged back as little Bettie Pratt started in his direction on an

rrate started in his direction on an investigating tour.

"Well course, Bud." said Mother with judicial eye, "you can't take them britches off." She paused and looked at him thoughtfully.

"I ain't a-going a step without him," resterated the loyal Eliza, and the rest of the children's faces fell. "Teo bad." murmured the Deacon.

and Miss Wingate could see that his distress at the plight of young Bud was as genuine as that of any of the

"But," began Mother Mayberry slowly, having in the last second weighed the matter and made a decisweighed the matter and made a decision. "your mother ain't said yeu couldn't go outen the vard and she ain't said I couldn't wrap you un in one of my kitchen aprons. That wouldn't be the same as changing the britches. She didn't know about this circus and if she was here you all know she wouldned was a Label at the world and the same as changing the britches. She didn't know about this circus and if she was here you all know she wouldned was a Label and the same as the know she woulder done as I asked her to do about Rud, so he ain't a-disobeving her and I ain't neither. Runget the apron hanging behind the

get the auron hanging Len'nd the door. Susie, and I'll fix him."
"Sister Mayberry," said the Dea-con with a delighted smile in his kind eyes, but a twinkle in their corners, "your decision involves the interpre-tation of both the letter and the spirit of the law. I am glad it, in this case, of the law. I am rested with you.

"Well," answered Mother Mayberry as she took the apron from Susie and started across the Road on her rescue mission, "a woman have got to cut her conscience kinder bias in the dealner conscience kinder olas in the deal-ing with children. If they're stuffed full of food and kindness they will mostly forget to be bad, and oughtent to be made to remember they can be ty being punished too long. Now, son-ny. I'll get you fixed up so stylish with these pins and this apron that the circus will want to carry you off. Start on, Deacon, he's a-coming."

"I've got to get the baby's Lonnet," said Eliza as the whole party started away in a trail after the Deacon, who led Martin Luther by one hand and little Bettie by the other. Over by the store they could see Mrs. Pratt waiting to marshal the forces on down the Road and Mr. Hoover stood ready as outstanding escort. He had brought the news of the passing of the circus train and she had promptly consented to taking the children and the Deacon over for a view.

"Please, Eliza, please don't take the baby! Leave him with me," said the baby! Leave him with me," said Miss Wingate and as she spoke she stretched out her arms to Teether. Teether was looking worn with the excitement of the day and his sym-nathetic friend felt the jeurney would be too much for him. He smiled and fell over on her, shoulder with a sigh of contentment.

"Don't you thing he oughter see them nelephants and things?" asked Eliza doubtfully, her loyalty to Teeth-er warring with the relief of having him out of her thin little arms for the

"He won't mind. Let me keep

him here on the front porch until you come back. Now run along and have a good time," and Miss Wingate started up the front walk, as Elica up the front walk, as Eliza

started up the front wais, as Eliza darted away to join the others. "I do declare," said Mother May-berry, as she watched the expedition wend its way down the white Road in the direction of the Bolivar pike, "the way the Deacon do love the children is plumb leautiful, and sad some too. I don't knew what he would do without 'em or they without him. Seeing 'em together reminds me of that scraggy, old snowball bush in full bloom, leaning down to the little Stars of Reblahem reaching un to it. What the direction of the Bolivar pike, of Bethlehem reaching up to it. What that good man have been to me only my Heavenly Father can know and my neaventy Father can know and Tom Mayberry suspicion. I tell you what I think I'll do: I'll take one of them little pans of rolls what Cindy have baked for supper, with a jar of peach preserves, and go down and set with Mis' Bostick while the Deacon are gone. with Mis' HOULEK While the Deacon are gone. We can run the pan of rolls in to get hot for him when he comes home and I know he likes the preserves. I want to stop in to see preserves. I want to stop in to see Mis' Tutt too and give her a little advice about that taking so much blue-mass. I don't see hew anybody with a bad liver can have any reliligion at all, much less a second bless-I know Squire have his faults, but others has failings too. And, too, I'll have to stop in and pacify Miss Prissy about turning the children loose, before I go dewn the Road

"Miss Prissy always seems to be "Miss Prissy always seems to be getting the children into trouble. I wonder why," said the singer lady with a shade of resentment in her voice. The little Pikes had establishvoice. The little Fixes had extangled ed themselves firmly in the heart of this new friend, and she found her-self in an attitude of critical partisan-

self in an attitude or critical parama-ship.
"I reckon Miss Prissy is what you call a kinder crank," answered Meth-er Mayberry as she paused at the foot of the steps. "A married woman have got to be the hub of a family-wheel, but a old maid can be the out-side crank that turns the whole con-tending the parama of the con-tending the parama of the parama of the parama. traption backwards if she has a mind to. I wish Miss Prissy had a little to. I wish Miss Prissy had a little more understanding of the children, 'cause the rub all comes cn Mis' Pike, and she's fair wore out with it. But I must be a-going so as to it. But I must be a-going so as to be the sconer a-coming. I wisht you would tell Tom Mayberry to go and let you help him put the hens and little chickens to Led. Feed 'em two quartes of millet seed, and you both quartes of millet seed, and you both of the complex of the course of time."

And so it happened that as Doctor Mayberry was in the act of swinging his microscope over a particularly abhis microscope over a particularly absorbing new plate, a very lovely vision framed itself in his office door against the background of Harpeth Hill, which was composed of the slim singer girl with the baby nodding over single the substitution. The unexpectedness of the slim shoulder. The unexpectedness of the slim shoulder that the door up under his han and bound that the the total control of the slim shoulder. The unexpectedness of the slim should be should be

a delighted smile.

"I don't know how you are going to feel about it, but I bring the news of an honer which we are to share. Do you suppose, do you, that we can put the chickens to bed for Mrs. May-derry? She says we are to try and put the chickens to bed for Mrs. May-berry? She says we are to try, and if we don't do it the right way she is never going to compliment us with her confidence again. Help, please! I'm weighed dewn by the responsibil-ity. "And as she spoke Miss Win-gate's eyes shone across Teether's bobbling head with delighted merri-ment. (To be continued.)

Don't forget seeing your friends and having them join in for a club of subscribers to Farm and Dairy.

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and gate liza

lay-

tion l in n is out

ing hat full

hat nly

### A Woman's Method with Chicks I am well satisfied with it. The wash-

Mrs. Annie L. Jack, Chatcauguay Co., Que.

Chickens, to lay in November, must be hatched in April either by hens or the incubator. The former method is satisfactory if the setting hens are

is satisfactory if the setting hens are word properly attended. Have clean boxes for nests and keep the brooding hens away from the rest of the flock.

When the chickens are hatched no freed should be given them for 24 hours. Later give fresh water in shall. low pans where they cannot get wet, is a and give dry feed such as bread ter.

It is very easy running, some others I have seen are so hard to use that the men have to do that part that the men have to do that part of the washing. I also have a clothes wringer and mop wringer, which I would not like to do without. My bread mixer is the Universal, and it saves both time and labour. Our churn is the Leader. We do not use the butter worker, as the washing and salting of the butter is all done in the churn, as we think the worker is apt to injure the grain of the butter ter.



Where chickens are of first importance-5 o'clock tea at the poultry yards Those who would make profit from their poultry must give the birds regular attention and not allow social and other functions to keep the chickens with most heir regular meals at feeding time. Much of any success with poultry domain and the regularity and attention to details on the part of the attendant. Prof. F. C. Elford, of Mactionald College may be seen in the lilustration to the right.

crumbs, rolled oats and wheat shorts. Keep grit always before them.

As they grow older, feed cracked grain, and table scraps at nocn. Young chicks must be fed what they will eat clean, three or four times each day, until they can run about vizorously, when three times, and finally twice will answer. There are several good incubators, any of which, if properly handled, will be found satisfactory. I use the Hamilton Incubators.

Chicken sunst have warm, clean quarters, especially at night. They do not be a fallowed to have their freedom to long. The control of the contro

Chickens hatched in April and well fed make good broilers in July. It is wisdom to weed cut the cockerels and sell them in this way. If this is not done they should be separated from the pullets and fattened as soon as possible.

#### . . . Farmers taking Interest

Miss Lillian Laurence, Que. Farmers of to-day are taking a great interest in the labour-saving devices for the convenience and com-fort of the wives and daughters, as well as in the machinery for the farm

My husband believes in share and share alike in this matter. My cooking range is the Home Comfort, and

The most sanitary labor saver is The most sanitary labor saver is the water supply which comes from a slate box (minus the bottom) four a slate box (minus the bottom) for the feet deep, through a lead pipe to the kitchen into another slate tank, which is so near the kitchen range that the reservoir may be filled from it without taking a step. Then we have a slate slop sink, which catches the water from the sink where dishes separator, etc., are washed. All wash water is emptted into this, too, and be conveyed seventy-five feet below

conveyed seventy-five feet below the buildings.

the buildings.

I also have a food chopper through which I put all suet and lard before trying out and it is so clean and white and will try out in less than half the time it would take to do it in the ald way.

half the time it would take to do it in the old way.

I make all my own soap out of the suct, and thus save many dollars during the year. I make, according to directions on each can of concentrated lye, only I use 4% lbs. of tallow, and a tablespoon of powedered borax to each can of Iye, and if the fat used is all clear tallow, add just fat little more water and the soap will a little more water and the soap will see the succession of the soap will be successed to the succession of the success a little more water and the soap will not be so hard.

Our furnace is the Emperor, No. 4.
manufactured by the James Smart
Co., and gives the best of satisfaction. Our cellars are all cemented.

Farm and Dairy Patterns give satisfaction.

A Competition Farm Home

We have received many letters from the women whose homes were entered in our Prize Farm's Competition, telling us of the many improvements and additions made in their homes, thus making their home life on the farm more pleasant and much easier. One of the homes where we believe every convenience is assured to the women on the farm, is that of Mr. Bert Bullard, Leeds Co., Ont. Mr. Bullard's daughter writes us a very interesting description of some of the conveniences. We have received many letters from description of some of the conveniences on their farm home. Following is a description of Cold Spring Farm: Our farm home is favorably situat-

Our farm bome is favorably situated on a gentle slope, which gradually ascends to a hill from which may be viewed the surrounding country. At the base of this hill gustes from the rocks a spring of cold, crystal water, It is from this our farm derives its name—Cold Spring Farm. We are especially favored in this respect, and water water smally naves fails for his some water smally naves fails for his series. our water supply never fails for house

As for our home, it is a large, white frame house built some 30 years ago. From time to time modern appliances have been added, such as furnace, acetylene gas, telephone, etc. During the summer months much of our spare time is spent on the pleasant veranda, which shades the front of the bures.

Some time ago we had our kitchen romodelled, equipping it with kitchen cabinet and new range. Into this kitchen comes an ample supply of soft water for culinary purposes. Our acetylene gas plant, which we

have had five years, was installed by W. F. Earl of Athens, Ont., and is known as the "Earl Generator." Besides lighting all the rooms of the house, it also furnishes light for the cow barn and horse stable, thus mak-



New Scale Williams

And this to you direct from the factory—subject to your approval. If, for any reason, the plane which we select does not give satisfaction, return it and we will pay the fresh control to your part of Shepping New Soile Williams Plancs on approval, and you provided the paying them on Easy Payments. The Williams Plancs Co. Institute of the Shanes Co. Institute of the Shanes Co. Institute of the Shanes Control of the

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ing in all twenty-five lights, and costing us about \$200.

As for our range, it is a "Univer-sal," and we find it satisfactory in

Our cabinet we had made to suit our own convenience. It occupies one corner of the room, and consists of cupboards and drawers, with an auto-

cupboards and drawers, with an automatic flour chest in connection.

We, as a family, are very fond of reading. We are constantly supplied with several daily papers, besides numerous weekly and monthly magazines. Among the latter may be found the Farm and Dairy, which we prize very highly not only for its valuable suggestions concerning farm notes, but also for its clever mode of presentation. As a farm paper, we consider tation. As a farm paper, we consider tation. As a farm paper, we consider it nulli secundus."—A Lola Bullard, Leeds Co., Ont.

...

To turn a hem on table linen, take cut the needle of your sewing manarrowest hemmer.

Experience in Artificial Incubation

Mrs. Jno. H. Roseburgh, Brant Co. Ont.

In my six years experience I have had good success with incubators, and would advise any farmer's wife

sho wishes to raise a human-to use an incubator. There are several good incubators There are several good incubators any of which, if properly handled, will be found satisfactory. I use the

will be found satisfactory. I use the Hamilton inculator. The machine is very simple to manage.

I start the incubator first about the middle of April. The eggs hatch therefore about the first week in May. When 24 hours cld I remove the chicks to the Brooders. In a few days they are allowed to run out it.

to the Brooders. In a few days they are allowed to run out in the warm sun which strengthens them.

Starting in April I set the incubators three times and usually hatch from 225 to 250 chicks with a 120 egg incubator. I keep the temperature as near 103 as possible using the leaster office to keep all infertile eggs. tester often to keep all infertile eggs

out. I cool and turn the eggs twice a day, watching the air cell closely, which is very important. I find I have better results by using the moisture pan at the time of hatching. Probably the most common cause of failure with incubators is carclessness and neglect in attending to the machine. machine. ...

Duck Culture is Profitable J. J. Tiffin, Huron Co., Ont.

Ducks are a fairly profitable branch Dicess are a rairy prontable branch of poultry and we always keep two ducks over each winter as a breeding flock. They are of the large white Pekin variety. The duck usually lays 60 eggs and sometimes more in a season. She usually started to lay about the middle of A. season. She usually starts to lay about the middle of April. We must get her in every night so as to get her eggs. We never let her set, but see her eggs under hens.

Out of 22 eggs set under hens we raised 20, one of the eggs having been broken, and one of the ducklings having died tefore maturity.

We feed cur ducklings bread and



Nests For Laying Ducks.

Nests should always be provided for ks. They need to be low down, preducks. They need to be low down, presently only an inch or two off the flo

water for about a week. The feed wheat the rest of the time only feed three times a day and feed this grain in water, since we have no running water for them and they must take only what we give them. Our ducks run in the orchard or in fact wherever they like but they always come back for their feed.

EARLY DUCKS MOST PROPITABLE

The first week of August we sold
part of them at 14 cents a pound.
They weighed 4½ pounds each. The
rest we sold during the last of Augrest we sold during the last of August. We got 12 cents a pound for them and they weighed five pounds each. If we had sold about a week sooner than we did, the first lot would have brought 15 cents a pound. Our ducks live in the hen house during

ducks live in the hen house during the winter and feed with the hens. The ducks as described in this letter were hatched on the 27th of May. Norze.—Ducks to be most profitable must be forced along rapidly and sold at from eight to 10 weeks of age. They are ravenues eaters. This preparate of the profit. They make good use of the food consumed, but, we must take care to market them on time etherwise they will, as many know from experience, at their many know from experience, eat their

heads off in a short time. The photo neads off in a short time. The photo on our front cover of this Special Poultry Number shows Mr. Tiffin's ducks in a small pool, which formed during a shower.—Editor.

Woman's Work on the Farm

Mrs. Bruce Martin, Simcoe Co., Ont. The routine work of a woman on the farm is to prepare three meals a day. This regularity of duty recurs regard-less of season, weather, planting, less of season, weather, planting, harvesting social demands, or any other factor. The only differences in different seasons are those of degree rather than of kind. It follows, rather than of kind. It follows, therefore, that whatever general hardships, such as poverty, isolation, lack of laLor-saving devices, may exist on any given farm, the burden of these hardships falls more heavily on the farmer's wife than on the farmer himself. In such that the same of the sam self. In general, her life is more mon-otonous and the more isolated, no matter what the wealth or the poverty of the family may be.

The relief to farm women must come through a general elvation of country living. The women must have more through a general season that more help. In particular these may be mentioned: Development of a co-operative spirit in the home, simplification of the diet in many cases, the building of convenient and sanitary house, providing running water in the house providing running water in the house and the sanitary mechanical help, good providing running water in the house and also more mechanical help, good and convenient gardens, a less exclu-sive ideal of meney gesting on the part of the farmer, providing better means of communication, as tele-phones, roads, and reading circles, and developing of women's organizations. These and other agencies should re-lieve the woman of many of her man-ual burdens on the one hand and in-terest her in outside activities on the terest her in outside activities on the terest her in outside activities on the other. The farm woman should have sufficient free time and strength so that she may serve the community by participating in its vital affairs.

We have found good women's organizations in some country districts, but as a rule such organizations are few or even none, or where they exist they merely radiate from towns. Some of the stronger central organizations are now pushing the country phase of their work with vigor. Mothers' clubs church societies, home economics clubs church societies, home economics organizations, farmers' and women's organizations, farmers' and women's institutes, and other associations can accompliah much for farm women. Some of the regular farmers' organizations are now giving much attention to domestic subjects, and women participate freely in the meetings. There is much need among country women themselves of a stronger organizing themselves of a stronger organization to the stronger organization that are attended chiefty ganizations that are attended chiefly by men should discuss the home-mak-ing subjects, for the whole difficulty often lies with the attitude of the men

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There is the most imperative need that domestic, household, and health questions be taught in all schools. The home may well Le made the centre of rural school teaching. The school is capable of changing the whole attitude of the home life and the part that women should play in the development of the best country living.

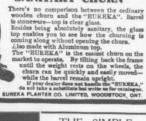
### FOR ADOPTION

Four fine healthy boys, aged respectvely, three, five, nine and eleven years Applicants will please give name of minister and two other responsible persons for reference

W. J. SHAW

Secretary Children's Aid Society

St. Thomas, Ontario



SANITARY CHURN



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Habit of Hens Eating Eggs

Mrs. T. R. Jomes, Middlesex Co., Ont.

Now while eggs are high in price and hard to produce is when the hens learn that abominable habit of all habits, egg eating. The theat lare not as substantial as they are later not as substantial as they are later on when the hens have access to face range and to open ground where they can obtain all of the elements necessary for the formation of the shells. The pullets commencing to lay probably do not use the nests. With eggs lying before them in the litter, or grechance broken in the nest, quite unintentionally one hen gets a taste of fresh eggs and she soon becomes addicted to the egg eating habit.

One hen learns to eat eggs; soon many more learn. Some of my friends who are so prone to talk about "old fool hens" soon get a better apprecia-Mrs. T. R. James, Middlesex Co., Ont.

Remember that like begets like

If you would raise plump chickens will covered on the breast as is the one well covered on the breast as is the one to the left of the illustration, then see that your breeding stock is of that typeding the plumper of bediened as as is appear plump.

tion of how quick they are to learn if they have an experience in con-nection with them eating their eggs. Let one hen learn to eat eggs and it will not be long until several others will learn the trick.

will learn the trick.

CAUSE OF THE HARIT

Egg eating I have always believed
to be due to some abnermal craving
on the part of the hen, which has
not been satisfied by the elements in
the food ration sh receives. If hens
are supplied with plenty of lime,
oyster shell, and gravel for grit, they
are not likely to cquire the halfcf egg eating. Nexts should be made
inviting, kept slightly darkened and
be arranged so that the hen goes into
the dark to lay.

inviting, kept stigntly darkened and be arranged so that the hen goes into the dark to lay.

But if some of the hens persist in eating eggs, it is next to useless to eating eggs, it is next to useless to the end of the e two very worthy purposes.

### Good Air Inside

Our supply of good, pure air comes from God's out doors. In the fields and parks, out in the open, almost anywhere, except in the very crowded places of our great cities, the air is good.

It is indeors, under roofs and inside of well-where human beings see

It is indeors under roofs and inside of walls where human beings are crowded together, that the air becomes dirty, foul and dangerous. And because we do not at once realize the presence of bad air in our homes and work places, and because its ill effects are not at once noticeable, most of us who lead indoor lives are poisoning ourselves every day with dirty air. Especially is this true now that the cool weather it here only waster in the roof wa the cool weather is here and we are inclined to keep the windows closed.

Nething is of more importance than that we should have plenty of

fresh, pure air indoo... We do not need an indoor temperature of 70 degrees, atthough most people think that nothing less will do. As a matter of fact a temperature of 68 degrees is much better. So if the room be heated to 70 degrees, we can well afford to have the windows open and let in fresh air enough to bright the temperature down to around 68 degrees, at which point it should be kept.

sickness and death. The admission of a plentiful supply of outdoor air thends to increase the amount of moisture in the room air and makes is more healthful.—Marion Dallas.

First, let me say to the girls, learn all vou can about all kinds of house.

#### ... A Little System

A Farmer's Wife, Richmond Co., Que. temperature down to around 68 degrees, at which point it should be kept.

The Women's Institutes are doing a great deal of good in helping and encouraging the women who attend thom. Will you please allow me a little space in which to give a few hints dry. And this, tegether with its unusually impure condition, causes lousekeeper? I have had over 10

tried to study out the cause and effect of such mistakes.
First, let me say to the girls, learn all vou can about all kinds of household work, for you will be glad out did when you go into a home of your own, with no one to whom you can go for advice. Mother knows how to put up fruit, cook, etc., and it all looks so casy, but unless you have had experience along these lines you will have many failures and discouragements. If you are not willing to put your best effort into the work in mother's kitchen, you will never en-

# ATON



all specially secured for this Sale in such enormous quantities that we obtained unusual price concessions. Remember—this big selling event lasts until February 28th only. If you have not received a copy of our Special Sale Catalogue, write for one to-day and take advantage of the values we are placing before you. They are certainly most unusual.

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I	aternatio	nal	T	extbook	Company	
	Box	799	D,	Scranton,	Pa.	

Box 799-D, Scranton	Pa   going to have brown bread, it mus
I enclose \$ for which plea Handlooks before which I have  Mechanics' A  Electrical Engineer's B  Building Trades S  Plumbers and Fitters' B	be out on at S o'clock. First put the kettle on, have the water boiling when deveriser's coakeeper's seen, and Corr.  A sust pudding would be nice, but as we are using the kettle for brown bread, we had better have a snow pud bread brea
Name	ding. Make it early so as to have thoroughly cold. When you have fine ished the cooking, clean up the board put the cooking dishes in a neat pilt in the sink and fill them with water
St. & No St.	so they will be easily washed.  Make everything tidy before start
Annual St. Control	70 4

your work in your own home

System is one of the greatest and the real key to success in housekeep-ing and keeping ahead of your work. You may be master of your work, or your work will be master of you and make you its slave. You will get to your work will be master of you and make you its slave. You will get to detest it instead of being in harmony with it. Learn to have good results,

and you will get to love your work.

Let us start in with the breakfast dishes. Clear them off into the pan, and pour good warm water over them. Let them stand while you brush the Let them stand while you brush the table, re-fill salt, pepper or sugar dishes, if needed; brush up crumbs around the table, and do anv dusting or arranging to make it ready for the next meal. If the water has cooled too much, get more, also fill the rins-ing pan two-thirds full of good hot water. Use soap enough to make the water. Use soap enough to make the dishes clean, rinse them thoroughly and drain. They will need very little wiping. Finish up all this work before starting any other. You will see this is a more satisfactory way than washing, draining and then pouring some hot water over the dishes, which never reaches the ones that are underneath. Some people wash them all into a pan, then pour a little warm water over them. In this way they do not get warmed through, and it takes too long to dry this way they do not get warmed through, and it takes too long to dry them. A wooden drainer over the sink is a good thing, but I prefer a wire one, as you can carry them in it to the nantry, where they may be wiped as they are put away.

Don't forget when you empty the porridge dish in the morning to put in some boiling water, but the cover on and set away from the range, and when you wash it you will be surprised at the results. Kettles and bear can be treated in the same way. Kettles and bean pots

Of course you have planned what you are going to have for dinner. you are going to have for dinner.

As soon as breakfast dishes are
washed, peel potatoes and let them
stand covered with cold water. They
are then ready for dinner. If you are
going to have brown bread, it must
be nut on at 8 c'clock. First put the
kettle on, have the water boiling when
the tin is put in, and if it boils out.

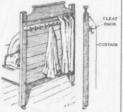
Have a washing machine which is dig for money, but not how to use dvertised in Farm and Dairy, also it.

Some have only one aim in life—lothes over night. As soon as water to have a big bank account. They lothes over night. As soon as water is hot, put the clothes to soak, by rubbing each garment with soap. Let is hot, put the clothes to soak, by rubbing each garment with soap. Let them soak only a few minutes, then the light clothes are treated in the same way. Cool by this time. Draw it off and use other hot water, with bits of soap melted up. After clothes have been washed through this, they only have to be rinsed and blued. White ones mever have to be scrubbed by hand, but sometimes the wristbands and other very much soiled places need a little rubbing. My clothes are white and clean and the machine saves twe-thirds of the labor. Never rinse men's socks through cold water, but pour hot over them, letting them stand till the water is cool. If the water is very much soiled pour on the control of our homes and work, we must put happiness and comfort unto it for we get int whet we give

we must put happiness and comfort into it, for we get just what we give in this world, so let us try to help and encourage each other.

#### For a Room with no Closet

Fasten with good strong screws to the posts in the back of the head of the bed a cleat one inch thick. Screw into this a dozen double clothes hooks. Set the end hooks some distance from



the end of the cleat, so that the garments will not hang far out, to show the front of the bed . A curtain will keep all the garments free from dust. —Mrs. J. B. Burns, Picton Co.,

\*\*\*\*\*\*\*\*\*\*\*\*\* OUR NUML CLUB

In a recent letter "The Son" is striking from the shoulder out, and justly so. Cculd fathers realize that it is more important to build up character and real worth, than a good bank account, this would be a better world. In some homes it is better world. In some homes it is work and save, year in, and year out. And what for? In nine cases out of ten because they like to. The spirit of greed and gain takes first place. We know a real miser. He has been known to open his pocket beet taken and the same transfer. has been known to open his pocket book, take money out to pay for butter, look at it, and say, "Let me keep it until to-merrow," and put it back again. He hated to part with it. A boy who only gets hold of an occasional coin is in danger. He don't want to part with it.

an occasional coin is in danger. He don't want to part with it. A positive case will illustrate. A young couple were going to a concert. At the ticket office he said to his companion. If you give ne your 25 cents I will buy your ticket for you. The tragedies—our "Philosopher" has only given us the A B O cf it yet. He didn't know any better. The heme life was to Llame. That father was a thief. He robbed his boy of his salary, of his manhood. He had been taught how to

to have a big bank account. They will save and hoard and even deny themselves the necessary things of life. They will sell the nouishing foods and live on the husks of the farm, and family have weak constitutions and in after years wonder why their family have weak constitutions and

Don't expect your boy to live as you did fifty years ago, or to have only the desires of a mature man now. That is the secret of keeping young. Begin your life over apain with your son; live his age with him and you will severe the secret of the secret o and you will renew your youth. A delightful relationship should exist between father and son. The result will the healthy, manly boys who idolize their fathers. — "Aunt dolize nealth Faithie."

LOOKING BACKWARDS

In looking back over the past year, what a flood of recollections bursts upon us. We see the good intentions with which we started 1910 and the remembrance brings us something of pleasure and something of pain. We see ideals realized and good resolutions broken, and each success and failure teaches us some of life's greatest lessons.

We recall our successes. They give us an estimate of our real worth and that very estimate urges us on, is ever an incentive to higher and nob-ler things. But it is quite possible for us in looking over the past, to note the blessings that we have received, and turn those very blessings into a curse by our own act. Success, in material things particularly, brings temptation. Our real prosperity does not lie in that which we have

try does not he in that which we have accomplished, but in recognizing the Father's hand in those accomplishments, as well as our own.

The failures, what de they do for us? Their chief advantage is that they show us our weak points and thus heln us to improve thus help us to improve.

The failure that is pernaps the most universal, is the failure to grasp epportunities. If we have failed in this respect in the past let us ed in this respect in the past let us resolve to make the most of our every day opportunities during 1911. Let us be just a little more thoughtful, a little more charitable a little more loving, a little more patient for resolutions are worth most when they are practicable every day.—"Cousin



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

or both. Easiest running churn you ever saw. Easy to clean. Churns best quality of butter.

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should always be used where several people sit, because it does not strain the eyes of those sitting far from it.

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This season's Rayo has a new and strength-ened burner. A strong, durable shade-holder keeps the shade on firm and true. Easy to keep polished, as it is made of solid brass, finished in nickel.

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Dealers Everywhere. If not at yours, write for descriptive circular to the nearest agency of the

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And it came to pass that the beggar died, and was carried by the angels into Abraham's bosom; the rich man also died, and was buried.

And in hell he lift up his eyes, being in torments, and seeth Abraham afar off, and Lazarus in his bosom. St. Luke, 16: 22-23.

Most of us are inclined at times to Most of us are inclined at times to feel that we are of comparatively ittle importance in this world. The petty duties that daily fall to our lot, the exacting round of tasks that must be done, lead us to wonder why our hori-zon should be so restricted and our opportunities for serviceso limited. We look out on the world and see others performing great deeds and we long: performing great deeds and we long for the privilege to do others similar. "Oh," we say, "if we could only make our lives count for more."

Again, it may be that there are some Here's a Home Dye

That ANYONE

Can Use.

HOME DYEING has

The Upward Look among us who are taking a prominent part in the world's affairs, and who compare we compare with pride with those who couply more thumble stations. Both attitudes of mind are a mistake.

God has ordained that it is not what we are or what we do that counts, but how we do do what we have to do. In how we do do what we have to do. In God's eyes the most trivial things we have to do are as important to us and to Him as though they were the great things that all the world talks about. The king who signs some great de-cree is no more important in God's sight than the beggar at his gates. It may be that in due time God may take sight than the beggar at his gates. It may be that in due time God may take the beggar to be with Him, as He did take Lazarus, and that the king, like the rich man, may be banished for-

ever.

Life is a school. It is intended to
prepare us in time to be with God.
Our characters are refined and purified and made ready to meet Him, by fied and made ready to meet Him, by the manner in which we perform our daily tasks, be they small or great. We can serve God just as truly wash-ing dishes, making the beds, attending some invalid as in performing what the world considers greater deeds. If the world considers greater deeds. If we do these in a loving, helpful, cheerful manner we please God well, far better, in fact, than the man or woman who allows pride to enter them and the man who allows pride to enter the chearts through being called on to do that which attreats arrange public of that which attracts greater public attention

"Every one," wrote the great Gen-"Every one," wrote the great General Gordon to his sister, "is doing work quite as important as any one clese, whether on a sick bed or as Viceroy of India; it is our folly which makes us think otherwise. The actions we see done are but trifles in comparison to the thoughts that fill us. What we need is a profound faith in God's ruling all things; it is not the Duke or Lord Beaconsfield, it is God alone who rules." "Many of us." says Pobest E."

one who rules.
"Many of us," says Robert
peer, "cause ourselves distress Speer, "cause ourselves used our misconceptions here. We exalt the frame work above the inward printing think that one man's missing think that one man's missing the state of the frame work above the inward principle, and think that one man's mission and service are nobler than another man secuse the setting of his life is more notable or glorious. God has His own purpose for each life and man's estimate of the comparative attractiveness of difficult forms is of no relevancy. The one essential thing is to find God's dominant desire for us to find God's dominant desire for us and to subject our lives and all their another man is assigned a particular another man is assigned a particular another man is assigned a particular work, is of no consequence. The vital thing is that each man resurse that his life is an assignment of God, what-ever the assignment may be. So the work is done, the service rendered, what matter is it who has the name and the fame of it, if only we did cleanly the part which God gave us to do,"

Let each of us endeavor to remember this. It is the only true conception of life. It ennobles our commonplace duties and makes them of more importance in our sight when we re-member that God is interested in how member that God is interested in how we do them. God is no respecter of persons. Let each of us, therefore, ask ourselves if we are doing what we have to do the best we can. If we are not, our duty lies plain before us.—I. H. N.

### THE COOK'S CORNER THE COOK'S CORNER

Recipes for publication are requested. Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy, Peterboro, Ont.

#### Massassassassassassassassas SPONGE CAKE

One oup sugar beaten well with 4 egg yolks and 3 tablespoons of cold water, 1 cup flour, 1 teaspoonful of baking powder (afited), 4 whites of eggs beaten stiff, juice of ½ a lemon. Have a pan of water under the cake in the oven. Bake 10 minutes in het oven, then reduce the heat one-half and bake 45 minutes longer. Don't open the oven door until the cake is done by the clock.

#### DATE CREAM PIE

Wash 1 pound dates and soak in a little cold water over night, then stew until soft sonogh to rub through a sieve, add 1 cup rich milk, 2 or 3 well-beaton eggs, and a little salt and nutmeg. Bake with under crust only. This quantity is enough for two or, these night. three pies.

#### AUNT SELENA'S PUDDING.

AUNT SELENA'S PUDDING.
Two cups of sifted flour and a tablesp. of melted lard; I teasp baking
powder, salt water or milk enough to
make thick batter. Steam 2 hours.
Split and spread with black currant
jam. Serve with plain brown sugar

#### BOILED ICING.

cupful sugar and 2 tablesp. Boil until it "hairs" on the taking care not to cook too Remove from the fire and stir milk spoon, much until it becomes smooth and white.

#### BROWN SUGAR ICING.

BROWN SIGAR IGING.

Cook I cupful of dark brown sugar
and ½ cupful of milk until a spoonful
will form a soft ball when pressed between the humb and finger. Remove
at once from the fire and beat until
it chickens then spread at once on
it thickens then spread at once on
it did with a wet knife. One-half cupful of chopped nuts makes a pleasing
change if the recipe is often used.

#### COFFEE SPONGE

Mix one and a half cups of streng breakfast coffee with ½ a cup of milk, about ¾ of a cup of milk, about ¾ of a cup of sugar, and a tablespoonful of gelatine, which has been soaked in 3 or four tablespoons of ccld ware. Put all together into a double boiler and heat, then season with quarter of a teaspoon of salt, and add the yolk of 3 eggs slightly beaten. Cook until the mixture thickens, then add the yolk of 8 eggs slightly beaten. Cook until the mixture thickens, then remove from the stove, and add the whites of the three eggs beaton stiff. Flavor with a teaspoon of vanilla. Pour into a wet mold and set away to cool. Serve with whipped cream.

#### POTTED LAMB BREAST

Two lbs. lamb breast. Season with salt and one onion. Put in kettle, cover with lid tight so steam does not escape. Let simmer from 1 to 1½ hours. Serve with minced paraley

### The Sewing Room

Patterns 10 cents each. Order by num-ber and size. If for children, give age; for adults, give bust measure for waists, and waist measure for skirts. Address all orders to the Pattern Department.

orders to the Pattern Department. BLOUSE WITH STRAIGHT TUNIC. 6859.



RAIGHT TUNIC. 6858.

Simple, straight tunics are among the smartest of all things this season and are attractive. This one is combined with a blouse that the said of the said that t

worn beneath.

Material required
for 16 yr. is 4 yds.
24 or 27 or 2½ yds.
35 or 44 in. wide,
with ½ yd. 18 in.
ming portion of the blouse, 1½, yds. 67
handing 41 in. for band on the tunic.
The pattern is cut for misses 14, 16 and 18 yrs.

SKIRT WITH CIRCULAR FLOUNCE, 6870.



ULAR FLOUNCE, 6879.

The skirt made with full upper portion and plain flounce on much in regular to the property of the combinations of material, yet it can be made of one throughout. This can be made of one is cut slightly above the natural waist line, in conformity with the very latest fashion,

wast line, in conformity with the very latest fashion, and the upper portion can be either tucked or gathered.

Material required for medium size is 8% yds. 20 or 21 in. wide, 5% yds. 35 or 44 in. wide for the upper portion, 2% yds. 34 or 27, 3% yds. 50 or 44 in. wide for the flourneyds. 35 or 44 in. wide for the

The pattern is cut for a 22, 24, 26, 28 and

SURPLICE WAIST. 6856.



The surplice waist is a pronounced favorite of the season. This one is closed at the back and can be made with high neck or low. When made with the high neck it is finished with the attractive collar. it is finished with the attractive collar. When made with a low neck this collar can be used or omit-

ted.

Material required
for medium size is
3½ yds. 24 or 27 in.
wide, 2½ yds. 36 or
1½ yds. 34 in. wide,
1½ yds. 34 in. wide,
with ½ yd. of silk
and 1½ yds. of allas illustrated.

over lace to make as illustra The pattern is cut for a 34, 36, 38, 40 and 42 in. bust.

CHILD'S DRESS. 6866



The long waisted dress is very becoming to tiny children and is much liked. This one is made with a straight gathered skirt and is simple.

Material required for a child 4 yrs. is 3% yds. 24 or 27 in. wide, 3 yds. 36 or 2% yds. 44 in. wide. The pattern is cut for children of 2, 4 and 6 yrs.

### always been more or less of a difficult under-taking— Not so when you use DYO-LA ONE PRE FOR ALL KINDS OF BOOMS Send for Sample Card and Story Booklet 90 The JOHNSON-RICHARDSON CO., Limited, Montreal, Can JUST THINK OF IT! JUST THINK OF IT! With DY-O-LA you can color either Wool, Cotton, Silk or Mixed Goods Perfectly with the SAME Dye. No chance of using the WRONG Dye for the Goods you have to color.

### CAPABLE **OLD COUNTRY** DOMESTICS

arriving weekly in summer, fortnightly in winter. Apply now, The Guild, 71 Drummond St., Montreal

### Hamilton Incubator Hatches Big, Healthy Chicks

You never find the Hamilton guilty of hatching deformed chicks, or allowing chicks to die in the shell. That is because the heating and ventilating systems introduce the correct amount of life-giving oxygen and moisture into the egg-chamber—because the heat-regulating system is accurate to a fraction of a degree—because the directions are so simple



directions are so simple and correct. The Hamilton Incubator hatches every fertile egg. The chicks are so plump, healthy and lively they make the old hen jealous of the Hamilton. You can make a succass of hatching chicks directions are so ton. You can make a success of hatching chicks with the Hamilton Incubator, and just as big a success of raising them with the Hamilton Brooder. Send for our free booklet and get complete information complete information about the always successful Hamilton Incubators and Brooders.

The Hamilton Incubator Co., Ltd., HAMILTON, ONTARIO.

#### THE TRADERS BANK OF CANADA

#### Proceedings of the Twenty-sixth Annual General Meeting

The twenty-sixth Annual Meeting was held at noon on Tuesday, the

24th of January, 1911.

The following Directors and others were present namely:—
A. H. Brown, Wm. Stewart, E. Galley, Edwin J. Thorpe, Jas. Linton, Rev Wm. Cooper, N. E. Scule, Andrew Semple, Geo. Le Riche, Rev. J. S. Williamson, S. Dillon Mills, Jas. Burnside, jun., H. L. Lovering, M. Garvin, J. K. Niven, Jas. Anthony, A. M. Scott, Dr. Carrique, E. Dickinson, jun., Julius A. Halbhaus, L. Bauer, H. L. Playtner, R. L. McIntyre, T. J. S. Skinner, Harry G. Horton, G. Tice Bastedo, Dr. Jas. Wallace, Gec. Watson, C. D. McLeod, Dr. J. F. Overholt, Jos. E. Baillie, Gideon Grant, P. A. Vale, F. J. Winton, A. G. Knowles, E. C. Jackson, E. E. Newman, A. B. Ord, R. H. Harvey, J. A. Laird, W. G. G. Turn-Lull, Geo. Mair, E. W. Bain, H. S. Strathy, C. D. Warren, Hon. J. R. Stratton, E. F. B. Johnston, K.C., C. Kloepfer, W. J. Sheppard, Misses E. and L. Hedges, George F. Hedges, Mrs. G. F. Hedges.

The President, Mr. C. D. Warren, tock the chair, and appointed the

The President, Mr. C. D. Warren, took the chair, and appointed the General Manager to act as Secretary of the meeting.

On motion Messrs. George Le Riche and Edward Galley were appointed scrutineers. The General Manager then read the following Statement:

Statement of the result of the business of the Bank for the twelve months ending 31st December, 1910: 

524,351 39 Balance at credit cf Profit and Loss last year .....

Appropriated as follows, viz.:—
Dividend No. 56, quarterly, at the rate of 8% per annum
Dividend No. 57, quarterly, at the rate of 8% per annum
Dividend No. 58, quarterly, at the rate of 8% per annum
Dividend No. 59, quarterly, at the rate of 8% per annum
Dividend No. 59, quarterly, at the rate of 8% per annum
Transferred to Rest Account
Written off Bank furniture and safes
Transferred to Officers' Guarantee Fund
Transferred to Officers' Pension Fund
Balance at credit of Profit and Loss, new account 87,090 00 87,090 00 87,090 00 100,000,00 15,000 00 5,000 00 5,000 00 153,434 79

GENERAL STATEMENT, 31st DECEMBER, 1910

#### ASSETS

Gold and silver coin current ....\$ 487,750 57 Dominion Government Demand Notes ...... 3,843,353 00

- \$4,331,103 57 Notes of and checks on other Banks .. ... 2,020,936 82 291,070 56 1,154,912 70 561,569 37 Railway and other Bonds, Debentures and

1,726,172 48 Call and Short Loans on Steeks, Bonds and 1,445,605 24

200,000 00 \$11,731,370 74 Bills discounted current ...... ..\$32,810,351 82 Notes discounted overdue (estimated loss pro-74,608 75

Loans to other Banks, secured ...... 7,250 77 Deposit with Dominion Government for security of general Bank Ncte circulation ... 167,374 13 Real Estate, the property of the Bank (other than the Bank premises) ...... 3,509 05

Mortgages on Real Estate sold by the Bank ... 24,500 00 Bank Premises ..... Bank Furniture, Safes, etc. ..... 240,439 41 35,421,366 15

> \$47,152,736 89 LIABILITIES

Capital Stock paid up		8 4.354.500	00		
Rest Account		9, 900, 000	00		
Dividend No. 59, payable 3rd January		87,090	00		
Former Dividends unpaid	*** **	602	52		
Interest accrued on deposit receipts	*** **	4,351			
Balance of profits carried forward		153,434	79		
			_	6,899,979	16

Notes of the Bank in circulation . . . . . \$ 3,790,080 00 Deposits bearing interest, in-cluding interest accrued to

date ......\$29,077,697 41 Deposits not bearing interest.. 7,000,,137 18

- 36,077,834 59 Balanco due to other Banks in Canada ..... 20,786 14 Balance due to Foreign Agents..... 364,057 00

STUART STRATHY, General Manager.

After reading the above Report the General Manager reviewed it as the General Manager reviewed it as follows: The statement just read, exhibiting the condition of the affairs of the Bank, will, I am sure, meet with your approval, as it shows a steady growth in all departments. You will see by it cur deposits now aggregate over \$36,000,000 which by comparison, with the deposits of a comparison with the deposits of year ago, show an increase of \$6,200, year ago, snow an increase or expection.

Ooo, an amount almost equal to
the total deposits of the Bank ten
years ago. You will see that we have
employed the additional funds to the
extent of \$5,500,000 in commercial
realits. Naturally the carring row. extent of \$0,000,000 in commercial credits. Naturally the earning pow-ers of the Bank have increased, and this is reflected in the net profits, which amount to \$524,351, as against \$457,082 last year.

During the year we have opened eleven new offices, the expenses in connection with which have been taken out of this year's profits. The points are: Beiseker, Alberta; Erskine, Alberta; Haileybury, Ontario; Matheson, Ontario; Munson, Alberta; Porgenine, Ontario; Monson, Mostow, Nos. Porcupine, Ontario; Rosetown, Sas-katchewan; South Fort George, B.C.; Steelton, Ontario; Stewart, B.C.; Wrexeter, Ontario.

The sum of \$348,360 has been dis-The sum of \$348,360 has been dis-tributed to Shareholders in dividends; \$100,000 added to Reserve Fund, which now amounts to \$2,300,000; the usual appropriation of \$10,000 has been made to cfficers' guarantee and pension funds, and \$15,000 written off furniture account, and the sum of \$153,434.79 carried forward to the credit of Profit and Loss new account.

Credit of Front and Loss new account. Referring to circulation account, this now stands at \$3,790,000, as against \$3,000,000 last year. Indeed, in all departments of the Bank, the general growth of the country has been satisfactorily reflected. To show this many large propers of the country and the country has been satisfactorily reflected. To show the country and this we will make a comparison with the figures of the Bank ten years age: 1900 1910

Capital paid up \$1,000,000 \$4,354,500 Rest Account ... 150,000 2,300,000 Deposits ..... 6,528,190 36,077,834 Circulation .... 987,000 3,790,000 Total Assets .... 9,177,385 47,152,736

Circulation vol. 100 (1973) Control Assets ... 9,177,385 47,152,738 Referring to Bank Premises account, we now own 32 properties including Teronto office, all standing in cluding Teronto office, all standing in the name of the Bank, the value of which is shown in the statement be-

Our Shareholders are constantly increasing, and now number 1,813.

It is not needful for me to refer to It is not needral for me to refer to the wonderful progress the country at large is making. This prosperity is manifest to all. Suffice it to say, our Branches extend fairly well through-out the Dominion and we are in an avadlant position to take equations excellent position to take advantage excement position to take advantage of the growth of the country, and confidently look forward to a steady increase in the earnings of the Bank. We have paid a conservative rate of interest to cur Shareholders since 1885, and in the meantime have built up a reserve, to protect your capital, to the extent of \$2,300,000. Our foundations are well and truly laid, and with the natural growth and prosp of this country, perhaps the equal of which does not elsewhere exist, we have every reason to look forward to the future with the greatest confidence, feeling that the property committed to our care will continue to make a reasonable return to its Shareholders.

holders.

All of the Branches of the Bank, including the Head Office, have been inspected during the year. I am consistent the result of the Bank's operations for the past year, as shown the statement now before 4 operations for the past year, as shown to you by the statement now before you, could not have been accomplished except for the layaity and efficiency of the staff of the Bank. It affords more greatest pleasure to bear testimony to their devotion to the interests of your institution.

PRESIDENT'S ADDRESS Gentlemen,-I have much pleasure in moving the adoption of the report

for the year 1910.

Much of the general prosperity of our Canadian Banks is doubtless due to the great advancement this country has made within the past few years A large increase in our population and the continued development of the Northwest have added very materially to the wealth of Canada. The extensions of our great railway systems and our rapidly growing trade with other countries have placed this Do-minion on a very high level of commercial importance. Banks are b ing every day a more important factor in meeting the increased demand made upon capital, and credit for aid in the inauguration of substantial in-dustries and the enlargement of general business. The result is that ourbanking institutions have become in a material sense the moving power in national works as well as the ne-cessary adjunct of private enterprise. A wide field is thus opened up with satisfactory results. Securities are satisfactory results. Securities are improving in character and value. Inrestments are found to be amply protected. Payments are being more promptly met than formerly. Everything of a financial and commercial character is becoming more substan-tial. Money is now utilized in larger and more profitable enterprises the at any time in the history of bank-ing. The outlook for the future is most favorable. Add to these facts the rapid strides which our rich north and western Canada is making and the prosperous condition of the older Province, and it is reasonably safe to say that with careful management and prudent investments, banks co-cupy a stronger position to-day than they have ever done.

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The fact that the failure of one or two smaller banks has not affected the standing of the existing institutions shows that cur banks are on a solid basis. With anything like caresolid basis. With anyoning like cate-ful and conservative management, failure cannot happen. If the inter-ests of the shareholders and deposi-tors are safeguarded by watchfulness and business methods on the part of the management and directors, the assets of a bank must always be greater than its liabilities, and whilst this is the state of affairs, the public are safe. Your directors have always adhered to this principle, and are safe. have spared neither time nor considhave spared neither time nor consideration in watching all the outgoings of your money. The securities have been closely scrutinized, investments in the slightest degree of a specular than the slightest degree of the slightest degree of a specular than the slightest degree of t tive character have been avoided. As a result, we believe that our present record will appeal to the shareholders in a convincing manner, and afford them good ground for the conafford them good ground for the con-fidence they have in the manage-ment. It should be remembered that this bank has only been in existence about half the lifetime of others of about the same volume of business. As a reward to the management and all concerned in the welfare of the Traders' Bank, it is pleasing to note that our deposits have increased over that our deposits have increased over last year by six millions, a condition which could not have been created except by thoroughly good manage-ment on the part of the Bank offi-cials and the confidence which such management always brings about.

management always brings about.
There have been eleven new
branches cpened during the year.
This was rendered necessary by reason of the expansion of the Bank, as
well as of the business requirement
of the country at large. For a short well as of the business requirement of the country at large. For a abort time, several of these branches can-not be expected to pay, except indi-rectly, but our experience is that if branches are opened in proper locali-ties they soon begin to yield a pro-fitable return on their own account, and increase the earning power of the bank as a whole by affording

11.

report

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amount carried to Rest account this year is very gratifying. After payment of all necessary obligations and previding for Lad and doubtful debts and contingencies, we are able to place \$100.00 to Rest account and have increased our profit and loss account by \$50,991.39 over last We nave increased our prome and loss account by \$50,991,39 over last year, this account now standing at \$153 443.79. And you will bear in mind that these objects have been accomplished nowithstanding the fact that we paid an increased dividend now amounting to 8 per cent. and involving an extra yearly payment out of profits of about \$44.000.

The office of auditor to the beard has been found to be of the greatest value. By means of the industry and care of this official, we are continually kept in close touch with all that concerns the welfare of the bank. Details and complicated matters with which directors could not ordinarily which directors could not ordinarily

cenerns the welfare of the bank. Details amplicated matters with which director could not ordinarily which directors are present are placed before the bard present are placed before the board present are placed before the board present week to week, and the board is the week to judge intelligently of all the goes on from the head office down too all the smallest branch. The auditor is an entirely independent efficer, not in entirely independent efficer, not in entirely independent efficer, not in any way under the control of the head effice management, but appointed and subject to dismissal only by your Directors, who fix his remuneration and define his duties. Our experience is such that not only in experience is such that not only in cur own personal interest, but in the interest of all banks a thorough and efficient audit by an independent efficient audit by an independent efficient audit by an independent officer is of the greatest value, and we heartily concur in the suggestion of the appointment of such auditors. I need only add that the Directors feel convinced that a competent and conscientious auditor performing his work thoroughly would be of immense advantage to banks and the public, but his work must be efficiently done otherwise, false confidence may be created and grave injustice done to otherwise false centitence may be created and grave injustice done to those who may depend too much on his results. We shall be glad to see a searching and practical system of bank auditing adopted in this country, and hope that seem measure try, and hope that seem easure thaving this object in view may become law at the earliest moment. I do not intend to deal with the

commercial connection, and adding to our facilities to do business.

Our premises still continue to give us a good return for the investment of the inverse in the been found necessary to utility to the large roum at the entrance on ground floor for Savings Department purposes. Already the convenience of this to depositors is felt, and we are beginning to reap the advantages accordingly. You will observe that your Directors have not this year written off any sum on premises account. The reason is very simple. The property is worth much mere than it was a couple of years ago, so in a very effects in a central location like this. The frontage is the first of the statement, whose five the nature of the statement, whose five the the network of the statement, whose favorable features of in value \$2,500 wore than it stands of a statement of the statement, whose favorable features of the statement of condition or prospects of business in any detail. The annual statement and returns of cur various banks show the progressive strides Canada is making far more than mere words could do. Our own share in the forward movement is very gratifying. Without further comment, therefore, I move the adoption of this report presented for your consideration.

WICLE-PERSIDENT'S ADDRESS

VICE-PERSIDENT'S ADDRESS

ADDRESS ADDRESS

ADDRESS ADD very considerably increased during the past year, are strong, while a very important increase of deposits evidences the growing confidence and favor of the public—two of the prime elements in justifying anticipation of a progressively improving and profitable business. We can, I feel sure, regard the future with confidence. If the next decade shows the splendid ratio of advance of the past ten years, with their five-fold increase in assets, their six-fold growth. ten years, with their five-fold in-crease in assets, their six-fold growth in deposits, and their thirty-three-fold increase in reserve, who may live to see 1921 will be applied in astonished. The generally astonished tory character of the statement, tory character of the statement of the creditable accomplishment shown, but it is further to be regarded as the result of shrewd, careful and ag-gressive management, a circum-gressive management, a circumthe result or shrewd, carrent and ag-gressive management, a circum-stance not only of importance to the Shareholders, but to the public as well, as additionally conducing to that confidence both in skill and effi-ciancy of administration, and in staciency of administration, and in sta-bility, which is the foundation of financial success. If there is an indinnancial success. If there is an indi-cation of necessity in these regards in respect of the banking business generally, for an improvement in as-surance in the returns suggestive of surance in the returns suggestive of amendment of the Banking Act, there will be little ground to objection. As far as the Bank is concerned, there is no objection to the closest sorutiny of its securities, investments, and methods. In this connection, I agree with the remarks of the President, in with the remarks of the Fresident, in regard to any inspection may be considered desirable to verify the several essential items of the annual statement and monthly returns of Canadian banks. The one now be-fore us would not be affected either as to its correctness, or favorable as to its correctness. fore us would not be affected either as to its correctness, or favorable showing, by the rigorous scrutiny of securities and the most thorough independent audit; it must be satisfactory—as it is a credit—te the management, to the Shareholders, to the

agement, to the Shareholders, to the Bank's clientele, and I have great pleasure in seconding the motion for the adoption of the Report. The motion for the adoption of the report was carried unanimously. It was moved by E. F. B. John-ston, K.C., Director, seconded by Rev. J. S. Williamson, Shareholder, and resolved: That the Shareholders, and Direct

That the Shareholders and Direc-

tors of the Traders' Bank of Canada place on record their hearty approval of any legislation of the Dominion Parliament whereby an independent examination and audit under the direction of the Government of all Canadian banks shall be made from time to time;

Resolved also, that whilst the sys-tem of auditing should be determin-ed by the Government, it is hoped that in the public interest the me-thod to be devised will be therough and efficient, and of a practical char-acter, as the result of a defective sys-acter, as the result of a defective system would create injustice and tend to injure those who might be induced to rely on reports having the sanc-tion of a Government or other official

That a copy of this resolution be forwarded to the Honorable the Minister of Finance.

forwarded to the Honorable the Minister of Finance.

In speaking to the metion, Mr. E. F. B. Johnston, K.C. strongly advocated the principle of independent inspection and audit. He pointed out the great benefit which the Directors receive from our present system of auditing in this Bank, and, although not claiming it to be perfect, he pointed out that it was a leng step in the right direction. The Traders' Bank is undoubtedly the pioneer in seeking to work out some method whereby the Directors and Sharcholders may receive infermation and details awart from the general management. Under the proposed legislation the duties of Directors and the penalties at tached to want and the penalties at tached to want and the penalties at tached to want seems of the control agement should be protected, as well as the public, by some practical method of auditing. He emphasized the fact that whatever system may be adopted would have to be efficient, otherwise there might be a tendency to do more harm than good. The greetest care will have to be taken in devising a scheme which will ensure safety to the public, on the one hand, and avoid danger, on the other hand, from toe much reliance upon the results obtained from any official examining the affairs of a bank. He read the resolution appointing the suits obtained from any official examining the affairs of a bank. He read the resolution appointing the part of the resolution and how astisfactorily they are carried into actual practice. This official is outside the general management, and responsible to the Board only. His duties involve continuous work, and there is perhaps no officer who works harder than he does. A more extended and comprehensive system, applicable to all Banks, would protect Shareholders and Directors alike, and would be of the greatest value to the public.

Mr. Williamson, in seconding, entirely agreed with these remarks on and seconded by Mr. C. Go. Watson and seconded by Mr. C. W. Watson and seconded by Mr. C. W. Watson and Directors of the Bank for their attention to the interests of the Bank during the past year. Carried. It was moved by Dr. J. E. Overholt and seconded by Rev. Wm. Cooper that the thanks of the Directors and Sharehelders are due, and are hereby tendered, to the General Manager, and the staff of the Bank for their diligent attention to the interested of the Bank for their diligent attention to the interested of the Bank for their diligent attention to the interested of the Bank for their diligent attention to the interested of the Bank for their diligent attention to the interested of the Bank for their diligent attention to the interested of the Bank during the past year. Carried.

Carried.

year. Carried.
It was moved by J. Parker, seconded by Mr. Skinner, that a sum not
exceeding \$80,000 be set apart each
year out of the earnings of the Bank
for the purpose of paying for all the
services, fees. and expenses of the

President, Vice-President, and such

President, Vice-President, and such Directors as now receive remuneration; said sum, or such portion thereof as may be required, to be apportioned as the Board may think proper. Carried.

It was meved by Mr. Jos. E. Baillie and seconded by Mr. Gideon Grant that the ballot be now open for the election of Directors, and to be kept that the ballot be now open for the election of Directors, and to be kept open until three o'clock unless five minutes elapse withcut a vote being cast, when it shall be closed, and until that time, and for that purpose cast, when it shall be closed, and until that time, and for that purpose of the control of the contr

dent, by a unanimous vote.
STUART STRATHY,

The Traders' Bank of Canada, Teronto, 24th January, 1911.

### Imported Champion Percheron 'Stallions for Sale

The winners of all Firsts, Sweepstakes and Medals at Toronto and Ottawa Fairs. Prices below all competitors, quality and breeding considered. Terms to suit the buyer.

Come to the Home of the Prize Winners

#### JOHN HAWTHORNE SIMCOE ONTARIO 60 YEARS' EXPERIENCE



Styles of Scales

Write C. WILSON & SON

### STICKNEY GASOLINE ENGINE

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is popular because it is

SAFE TRONG That This is a Fact.

If you are in doubt ask for our 57 Catalog. After reading it you will KNOW ALL ABOUT ENGINES

Ontario Wind Engine & Pump Co., Ltd. TORONTO

WINNIPEG CALGARY

### OUR FARMERS' CLUB Contributions Invited.

OUEBEC

COMPTON CO., QUE.

COMPTON CO., QUE.

COMPTON CENTRE, Jan. 21.—We have been having very cold weather lately, but it has moderated now. Pork has risen in price. Local butchers are now paying 9 cents a lb. Corn meal is \$1.25 a cwt.: shorts the same and oats are selling around 40 cents a bush.—H.G.C.

SHERBROOKE CO., QUE. LENNOXVILLE. Jan. 21.-The winter has LENNOXVILLE, Jan. 21.—The winter nas been mild. There has been enough anow to make splendid roads. Live stock is wintering well, and creameries report a larger quantity of cream than usual. Butter still stands at 25 to 22 cents. Eggs are more plentiful and cheaper.—H. McF. MISSISQUOI CO., QUE.

FRELIGHSBURG, Jan. 19.-We are experiencing a severe winter. The mercury hangs around zero for several days at a time. December was the coldest month we have had for several years. Quite a lot of logs are being cut and hauled to mill, the bulk of them being basswood and pine, with some elm and butternut.



W. F. YOUNG, P.D.F., 123 TEMPLE ST., SPRINGFIELD, MASS LYMANS Ltd., Montreal Canadian Agents



SYNOPSIS OF CANADIAN NORTH. WEST LAND REGULATIONS.

SYNOPHIS OF CARADIAN NORTHWEST LAND REGULATIONS.

ANY person who is the sole head of a
family, or any male over 18 pears old,
may homestead a quarter section - 1 swalldays and the sole section - 1 swallsection - 1 swalldays and the section - 1 swalldays and the section - 1 swallmay swall swallmay s

access early founding the time origined to severe extra.

A homesteader who has exhausted his homestead right and cannot obtain a pre-emption, may enter for a purchased homestead in certain districts. Price \$2.00 per each of three years, cuitivate fifty acres each of three years, cuitivate fifty acres and erect a house worth \$300 mt.

Deputy of the Minister of the Interior.

N B-Unauthorized publication of this divertisement will not be padd for.

Milk is bringing \$1.60 a cwt. at the condensery. Hens are beginning to lay more freely. Eggs are 34 cents; butter, 27 to 28 cents.—C. A. W.

ONTARIO PETERBORO CO., ONT.

PETERBORO, Jan. 30.—Arrangements are about completed for the holding of a series of meetings in Peterboro County during the week beginning Feb. 13, which will be addressed by Mr. E. C. Drury, the Secretary of the Canadian Council of the Secretary of the Canadian Council of Agriculture, and a past master of the Dominion Grange. Mr. Drury was the leading speaker for the farmers who considered the control of the control of the on the Dominion Government in Ottawa last December. The meetings will be held mostly under the auspices of the Farmers' Clubs. Meetings will be held Farmers' Clubs. Meetings will be held with the control of the control of the control of the New York Council of the Council of the Council of the New York Council of the Council of the Council of the New York Council of the Council of the Council of the New York Council of the Council of the Council of the Council of the New York Council of the Council of the Council of the Council of the New York Council of the Council of and possibly at one or two other points.

As the farmers of Peterboro County are very much interested in the farmers' movement that has been attracting so much attention, it is anticipated that these meetings will be largely attended.

tnesse meetings will be largely attended.

ALHBURTON CO, ONT.

KINMOUNT. Jan. 10.—The snow is very deep, three feet on the level which makes working in the bush very bad. There is feed in abundance, so cattle will be wintered in the work of the control of the work of the w

25c; eggs, 25c; beef, 57.75 a cwt.-8.T.

WELLINGTON CO, ONT.

PERGUS, Jan. 24.-8ome 47 head of fine cattle went from this neighborhood to the Winter Fair at Ottawa, and about two tons of dressed poultry. Farmers are busy laying in their supply of ice.

Poultry is getting very scarce, although a great quantity is being raised. Some of our farmers had between 57s and 8100 worth to market last season.—W. B.

ELORA, Jan. 26.—There americs to be ELORA, Jan. 26.—There americs to be

ELORA, Jan. 20.—There appears to be a lack of the enthusiasm amongst members of the Farmers' Institute that foroers of the Farmers' Institute that for-merly prevailed. It is owing, no doubt, to the withdrawal of the "winter fair" privileges, that allowed members to use the Institute ticket as a pass to all the sessions free of cost. This, while add-ing largely to the numbers, brought no financial returns to the management, and they did a wise thing to change the plan.—G. W.

they did a wise thing to change the plan.—G. W. Plan.—G. W. P. Palkkiand. J. Palkiand. J. Palkiand.

grade Shorthorn cow.—LT.

KENT CO., ONT.

BLENHEIM. Dec. 29.—The so-called Farmers' Long Distance Telephone Company, which was always a subsidiary of the Bell monopoly, is now being absorbed by the latter, and the yearly rentals are to be increased. The farmers of this company company of the company of th

their advent the Bell people had a yearly rate of less than \$20 to \$25. Now their limit is \$15. Even this rate is high, as the independent systems will operate a private signalling system which is much more satisfactory than anything the Bell offers the farmers.—A. D.

MANITOBA

MANIOBA
MARQUETTE DIST, MAN.
KELLOE, Jan. 19.—The weather is unmentionable. Really we cannot find
words to express it; a real, old-time
Manitoba winter. We hardly know what
it is to see the sun shine. Por the last
month the thermometer has stayed between 35 and 40 degrees below zero, and
it has been blowing and seed. tween so and a degrees below zero, and it has been blowing and anowing. A week ago, we had a nor-wester, with the thermometer at—35. Our coal pile suffered some then. Most people around here ed some then. Most people around here have wood furnaces and can't get wood for love or money. They all seem to be darial to lay in a decent supply of fuel, but we have lived in this country too long to be caught in a trap like that. Becaught in a trap like they between the country too the country too the country too the country too the country to t keep enough feed on hand. The mer keep enough feed on hand. The men can draw only a lag at a time since the roads are so bad. We are stall feeding a carband of stock for the apring marked and a stock for the apring marked and the state of the stat

BRITISH COLUMBIA

BRITISH COLUMBIA
NEW WESTMINSTER DIST., R.C.
CHILLIUWACK, Jan. 14.—We are having
an exceedingly hard winter now. It is
nine degrees below zero, and two men
have frozen to death. It started to smow
last Monday, and has been drifting ever
since. We have about one and a half
feet of snow and it is badly drifted in
heaps about seven feet deep, Feed and
all merchandise has gone up in price.—
J. C.

HOLSTEIN NEWS

The members of the Canadian Holstein Friesian Breeders' Association will hold Friesian Breeders' Association will hold their annual meeting at Toronto, Feb. 9th. The third annual banquet will be held at Nasmith's parlors, 150 Bay St., Toronto, on Feb. 8th at 6:30 p.m. Ad-dresses will be delivered by C. W. Wood, dresses will be delivered by C. W. Wood, of America and Prof. H. H.

GOSSIP

The annual meeting of the Canadian Hackney Horse Society will be held in the Princs George Hotal, Toronto, Feb. 2 at 8 p.m.

Farmers in Ontario who desire to se-Farmers in Ontario who desire to secure labor for next spring should get into touch with the Salvation Army. There is a great demand for the Army's immi-grants. Write for information and appli-ing the state of the state of the state of the gration and the street, Toronto. James and Albert Street, Toronto.

SPECIAL PRICES ON SCALES-Every SPECIAL PRICES ON SCALES-Every farmer and stookman should have a plat-form scale. He had better get a Wilson scale with Diamond Steel bearings and get all the latest improvements and the benefits of their 50 years of experience in scale making. You can get special prices this month by writing U. Wilson & Son, 37 Esplanade St., East, Toronto, Canada.

MEDICAL POULTRY BOOK FREE
Forey person interested in poultry will
find "Zenoleum Chicken Chat" a useful
find "Zenoleum Chicken Chat" a useful
find "Senoleum Chicken Chat" a useful
find the control of all diseases
for the driver. It gives full directions for the driver.
It gives full directions for the driver.
It gives for the diseases in
of contagious and infections diseases in
of contagious and infections diseases in
of contagious and infections diseases.
It is possible to the poultry yard. It tells the most effective treatments to rid the flock of parastress, such as like, mites, and various
serms, that cause roup, pip, tapeworm,
callowed the disease of fowl,
and is printed and sent out free by the
owner with the business "Guiseases of fowl,
and is printed and sent out free by the
manufacturers of Zenoleum Disinfectant
Germielde and Lice Killer, which has the
organical contagions of 48 out of 48 state Agricultural Colleges and Experiment Stations.

"Chicken Chat" is free to avery reader. MEDICAL POULTRY BOOK FREE

"Chicken Chat" is free to every reader of Farm and Dairy. A cent spent for a postal card will return you a profit of

many dollars, Address, Zenner Disinfec-tant Company, 218 Lafayette Avenue. Detroit, Michigan, before you forget it.

TRADERS BANK MAKES SUBSTANTIAL GAINS

GAINS
The Traders' Bank of Canada, whose annual meeting took place on Tuesday, January 24th closed the past year with an enviable record. The net profits for the year ending December 31, 1910, amounted to 8524,551. With a balance carried forward from the previous year of 8102. ed to \$524,551. With a balance carried forward from the previous year of \$102, 445, there was a sum of \$626,794 available for distribution. That the bank has prospered during the

year is shown by the fact that deposits increased by over \$6,000,000 while 11 new branches of the bank were opened. The regular dividends at the rate of eight per regular dividence at the rate of eight per cent, per annum, were paid, and the sum of \$100,000 was transferred to the Rest ac-count, while the balance carried forward to the forthcoming year is \$155,434, as compared with \$102,443 for the previous

year.
The capital of the bank is now 84,354,500 while the rest account is \$2,200,000. The total deposits amount to over \$36,000,000. total deposits amount to over \$8,00,000. The bank is particularly strong in quickly available assets, which amount to over \$47,152,000. The bank is to be congratulated on the safe conservative lines along which its development has taken place, and it is extremely gratifying the property of the conservative constraints and the second of the safe of the second of the safe of th

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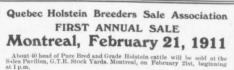




THE BANWELL HOXIE WIRE FENCE CO, Ltd Dept.H', Winnipeg, Man. Hamilton, Ont.

The Lightning Evaporator is not only the fastest one made in the world, but it holds more prizes medias and diplomas for quality of syrup it makes than all the other makes put specific. We have the documents to prove properties are always to the surface of the county fair of the county fair of the county fairs of fastern Lightning of the county fairs of Eastern Townships. "Catalogue Fre."

SMALL BROS., - Dunham, Que.



The sale will be held under cover, and there will be no postponement on

Many of the animals that will be offered are of the choicest breeding, and the sale will afford an excellent opportunity for beginners to get foundation

CATALOGUE ON APPLICATION TO

J. J. CALLAGHAN, 36 Mountain St., Montreal, Auctioneer. E. N. BROWN, Quebec Bank Building, Montreal WINDMILLS **Towers Girted** every five feet apart and double braced Grain Grinders Pumps Tanks Gas and Gasoline Engines Concrete Mixers Write for Catalogues GOOLD, SHAPELY & MUIR CO., LIMITED BRANTFORD - CANADA WINNIPEG, MANITOBA



Interested Farmers, Old and Young, Eager to Leara What They Can in a Few Short Days in Regard to Horse and other Stock Judging

A successful stock and seed judging course was conducted in Peterboro last week under the direction of the Ontario Department of Agriculture. The course was conducted in the splendid new armouries. In the evening on one of the days a horse show was sut on under the au spices of the Agricultural society. It was a pronounced success and it is thought it will be the forerunner of what will develop next year into an annual indoor horse show at Peterboro. Our illustration shows the crowd that attended the class in draft horse judging on Wednesday afternoon.—Photo taken supecially for Farm and Dairy.

# PROFESSIONAL PROPERTY OF THE P

Toronto, Monday, Jan. 20, 1911.—The provisions of the proposed trade agreement between Canada server at last been made public and the reading of the comments made by leading men on both sides of the line is indeed interesting. There does not seem to be much protest from the Canadian very wide feeling of ure avidently a discontinuous control of the line is indeed interesting. There does not seem to be much protest from the Canadian very wide feeling of ure avidently at the farmers both in the Northwest and the farmers both in the Northwest and the Eastern Provinces. We have public men like Mr. Reford of Montreal and Sir William Mackeniae of Toronto also voicing their likes, in no uncertain fashion, of which we have been supported by the control of the control of

If any occumes an accusary, anny may it spells rain to Ganada.

From Western Canada reports come to From the Common and the Common accuments of the Common accuments of the Common and the Common accuments of the Act. Call money in Toronto continues to rule at \$1.2 per cent.

#### WHEAT

WHEAT

With shipmonts from the Argentine,
1,000,000 bushels in excess of the same
period is not a constant of the same
period is not seen to the same
period is grain, it is no wonder that
the bulls have been feeling nerrous the
past week. The market in Chicago is
reported as weak, as were most of the
European wheat centres. At last advices,
May wheat closed in Chicago at 59½c and
July at 59½; at Winnipeg May wheat was
quoted at 59½c and July at 59½c as bush,
refollows: No. 1 Northern \$1.64. No. 2;
\$1,00½c; No. 2 Ontario Winster Whras, 56;
to \$7c a bush outside, according to location. On the farmers' market 1s1
wheat is selling at 86c to 57c a lushel and
goose wheat at 50c a bush.

#### COARSE GRAINS

COARSE GRAINS

There is a noticeable strengthening of the market it some of the coarse primis, notably in corn and cats. Local designs give the following quotations: canada Western cats, No. 2, 35%c; No. 5, 37c a bush. at lake ports for immediate ship ment; No. 2 Ontario White, 38c to 58c, prices and the ports for immediate ship ment; No. 2 Ontario White, 38c to 58c, prices prices are as a steady. Montreal Ryden cat and the ports for immediate ship ment; No. 2 Ontario White, 38c to 58c, prices prices for butter and cheese are, choicest creamery 25c to 25%c: choices carcian yellow corn, No. 3, 53%c to 58c abush. at shipping points.

See a bush, at shipping points.

See a bush, at shipping points, and bushyshest 49c to 58c a bush, and bushyshest 49c to 58c a bush, and bushyshest 49c to 58c a bush. There is a steady trade in hay and the standard of the control of the

POTATOES AND BEANS
There is no change in the market. There is a steady demand for potatoes and fair supply and local quotations are 96 to 81 a bag, at store and 75c to 80c a bag in a jobbing way. On the farmers of the potatoes of the pota EGGS AND POULTRY

market is firm in both commodities.

Market is firm in both commodities.

Market during the passage in the local market during the passage in the price of eggs or poultry. Larger supplies are coming into the market but the demand keeps pace and helps to steady the quotation; dealers' quote strictly new ladden and keeps pace and helps to steady the quotation; dealers' quote strictly new ladden and keeps pace and helps to steady the quotation; dealers' quote strictly new ladden and keeps pace and helps to steady the quotation; dealers' quotation; dealers' are selling at 40c to 45c a dozen; case. On the farmers' part of poultry are as follows: chickens, 15c to 15c a lb.; fowl. 15c to 15c; turkeys, 15c to 20c; ducks, 15c to 15c; turkeys, 25c to 25c; gees, 15c to 15c; turkeys, 25c to 25c; gees, 15c to 15c; and ducks, 15c to 17c a lb. Montreal wholesale quotations for eggs, strictly new ladden and the selling as follows: chickens 15c to 15c; and ducks, 15c to 17c a lb. Montreal wholesale quotations for eggs, strictly new ladden, old of the control of the selling and selling and some selling as 60c and seen; selected, 25c a dozen; cold on dozen; selected, 25c a dozen; cold on dozen; selected, 25c a dozen; cold on the part of the large quantities of cold of the selling during the past week in Montreal wholesale quotation of placed on the market and partly of the large quantities of cold of our owing to the large quantities of cold of pour or or of the heas.

DAIRY PRODUCTS

activity on the part of the hens.

DAIRY PRODUCTS
There is a billion of importance to record in the dairy shing of importance to record in the dairy shing of importance to record in the dairy shing of the dairy of the dairy shings of the dairy sh

wherever they can be picked up for Western trade they are eagerly bought ton: straw in bundles, 85.60 to 87.

MILL FEEDS...

There is a firmer feeling in the market and millfeeds are on the upward grade. Local wholesale prices are Ontario bran. 830: shorts. 822 a ton in bags on track. Toronto: Manitoba bran, 830 a ton, shorts. 821 a ton in bags on track, Toronto. Manitoba bran, 820 who will be shorts. 821 to 10 in bags on track, Toronto. Manitoba bran. 820 who will be shorts. 821 to 823 a ton in bags on track, Menteral: Manitoba bran. 830: shorts. 821 to 822 a ton in bags on track, Montreal.

SEEDS

Montreal.

Quotations for seeds in Toronto are unchanged from lasted and are as follows: No. 1 slatke, 87,00 to 87; No. 3 slatke, 86,00 to 87; No. 3 slatke, 85,00 to 87; No. 1 slatke, 87; No. 1 slatke, 87; No. 1 slatke, 87; No. 1, 1 slatke, 97; No. 1, 1 slat

HIDES

There is absolutely no change in the prices of hides, either in Toronto or Montreal. Toronto quotations even as No. 1 inspected steers and cows. %/c; No. 2, 7%c to 8½c; No. 3, 6½c a hi, calfestina, 12c to 15c a hi, 14llow. 6½c a b). At country points dealers are paying the following prices: Gured hides, 8c to 8½c a hi, sheep show the constraint of the short of the sh

#### HOPS

HOPS
The trade bulletin says the market continues strong. The same quotations are given as were printed in last week? insue. Bohemian 38c to 48c; B.C. 38c; B.C. 38c;

adian 250, one very few minds.

Who Figure 1 and very few minds.

Since 1 and very few m

barrel, according to quality.

HONEY
Wholesale dealers quote strained clover
honey in 60 lb. tim. 10% a lb.; in 5 to 10
lb. tims, 11c a lb.; buckwheat honey 7c
a lb. in tim, 6%c a lb. in barrels; choice
comb honey, \$2.25 to \$2.50 a dozen

HORSE MARKET

HORSE MARKET
There is a growing demand from the
west and things are looking bighter for
the horse trade. There here are to
tive demand all winter bit the trouble
has been that farmers have had very few
animals to dispose of having sold off has

and shipped to the orairies. In Mon treal prices are much higher even \*hab in Toronto. The following prices have been quoted

The following prices have been quoted by local concerns during the past week; Choice heavy draft horses, \$250 to \$350; mediums. \$260 to \$300; ordinary quality, \$150 to \$230; agricultural horses, \$100 to \$250; expressers, \$100 to \$250; expressers, \$100 to \$250; expressers, \$100 to \$250; saddle horses, \$175 to \$250; serviceably sound horses, \$72 to \$125.

LIVE STOCK

viceably sound horses, \$72 to \$125.

LIVE STOCK

No special features have shown themselves in the stock yards, during the past week. There has been a very even balance of trade. Dealers and sellers have expressed themselves as attained with the outcome. There was a slight falling off in the price of lambs owing falling off in the price of lambs owing falling off in the price of lambs owing the state of the state of the line in the price of a single yard of the state of the line indicate an early decline in the price of hogs, as receipts are beginning to get very heavy. At present prices in the correct of the state of the line indicate an early decline in the price of hogs, as receipts are beginning to get very heavy. At present prices in the correct of the state of the state

EXPORT BUTTER AND CHEESE
Montreal, Saturday, Jan. 28—The demand for cheese this week was well maintained, and has practically cleaned up remaining unou a few thousand boxes remaining under the control of the control EXPORT BUTTER AND CHEESE for the winter season, and makes a big hole in the stocks in store here. The quantity left in store now is very small, probably under 50,000 boxes and more than half of this is owned in Great Britain, and is being held here awaiting shipping

half of this is owned in John and is being held here a waiting shipping fastructions.

The market for butter is quiet and steady, with prices unchanged from last steady, with prices unchanged from held the steadily disturbed fresh butter is steadily all the steadily all the steadily all the steadily steadily reduced. Finest fall made goods steadily reduced. Finest fall made goods are quoted at 20% to 25 cents according to section. and fresh made creamery at 4 cents a lb. The unsatisfactory condition of the market in the United States is affecting the sentiment of the dealers here, and the recent announcement from Ottawa on the tariff has tended to further unsettle the market.

MONTREAL HOG MARKET

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal. Saturday, Jan. 26.—The market
this week for live hogs has been very
firm. The week is closing with prices
rather higher than they were a week
ago, due no doubt to the light receipte
which came in this week. Selected lots
weighed off cars sold as high as \$8.00 a

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isinfec Avenue. get it. NTIAL whose uesday,

mount-carried of \$102, vailable ing the ing the leposits in new l. The per he sum lest acorward 434, as

4,354,500

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#### CRUMB'S IMPROVED STANCHION



BURNED

WALLACE R. CHEIMR. B. Collect Fro.
Canadian orders filled from Canadian factory.
Canadian orders filled from Canadian factory.
Garage about be addressed to the home office.
State in inquiry if you prehe booklet in French or English.

#### SELECT AYRSHIRE BULLS



Having secured a son of "Primrose of Tangie wyld," the champion Ayrehire milk record cow of the world, I now offer my well bred individual and good breeding buil "Anabenbrain Albert," (Imp.) Deuty 16th of Auchenbrain (Imp.) with O. A. O. Saarly record of 16560 lbs. milk averaging. Also three buils from 9 to 13 months old, all from Record of Performance cows.

W. W. BALLANTYNE, Stratford, Ont. Phone.

### BURNSIDE AYRSHIRES Are Well Known.

They are from the best imported and home bred stock. They are true to type. They have good show yard records, as well as large records of milk and butter fat. Stock for sals. Write or come to Burnside Farm.

R. R. NESS, Proprietor, E W 15-10-11 Howick, Oue

"La Bois de la Roches" Stock Farm Here are kept the choicest strains of AYRSHIRES, imported and home bred. YORKSHIRES of the best bacon types.
WHITE ORPINGTON, WHITE WYANDOTTES and BARRED ROCK Poultry.

HOM. L. J. FORGET, J. A. BIBEAU,
Proprietor Manager
Stc. App. 4e Bellevue, Que.

#### AYRSHIRE BULLS

The Commercial Kind. All descended from Record of Performance Cows and Gr. Dam on Sire's side: all ages Several fit for next season's work. Will exchange for heifers of the right kind. Prices right. JAMES REGG, R.R. No. 1 St. Thomas, Ont.

THE SPRINGBANK HERD OF AYRSHIRES Ontain more World's Champion milk and butter producers than any other herd in America. Four choice bull calves for sale out of large teated heavy producing dams.

A. S. TURNER & SON

Ryckman's Corners, Ont. 3 Miles south of Hamilton.

### CHOICE AYRSHIRES

Write for pirces, etc., on Imported Ayrshires. We are now buying in Scotland for Spring delivery. Over 3b bought as a result of our October viait. Pirst choice of 1919 crops of Bulls and Heffers. Higheronts.

etc. Records.
Calves. Two fit for services.

ROBT. HUNTER & SONS, Maxville, Ont.

#### WORLD'S CHAMPION HERD OF AYRSHIRES

For Mill Milk and Butter Production. A few nd heifers for sale at present. Call

WOODDISSE BROS. Tanglewyld Farm, Rothsay, Ont.

TAMWORTHS AND SHORT HORNS FOR SALE Several choice young flows sired by Imp.
Boar, dams by Colvill's Choice, Ganada's
bred to young stock hop. Also a few matured sows. A few very choice yearing
and two year old Shorthorn helfers. First
class family. Excellent milking strain.
Prices right.

tf A A. COLWILL, Box 9, Newcastle, Ont

### CHESTER SWINE

From the old reliable firm. Four young rood sows due to farrow in April, 1911; oung boars fit for service. Young stock, months old; not akin. A few Leicester wer and ewe lambs for sale—choice.

cwt. Dressed hogs are firm and there is a good trade doing in fresh killed ab-batoir stock at \$11 a cwt., country dressed being quoted at from \$9.50 to \$10 a cwt.

AYRSHIRE MEN WILL ORGANIZE Avrshire breeders of Northumberland and Durham Hastings, Prince Edward and Peterboro counties will hold a meet-ing in the Cheese Board room, St. Law-rence Hall Hotel. Campbellford, on Feb.

#### Reaching Buyers

It is easy to sell your surplus live stock, even though it be pure bred and high in price, if a buyer comes to your barn and wants what you have for sale. But not many of those fellows come "just happening along." They are busy elsewhere—it might be far away—at home, upon their farms.

You must tell them of what You must tell them of what you have for sale. How, otherwise, can they know about it? You can tell 10,000 farmers of your stock for sale through these live stock columns, at a cost which, did you spend an equal sum for mere postage alone, would only enable you to write to 40 people. write to 49 people.

A one-inch advertisement in A one-inch advertisement in Farm and Dairy will cost you only 98 cents. Send one in to-day, and let it sell your stock and save expense and work for

7 at 10 c'clock, a.m., to form an Ayrshire club for the extension of the interests of the breed. There are about 70 breeders of Ayrshires in this district large attendance is looked for. The buai ness meeting will be over by 3 c'clock, p.m., enabliny visitors to catch trains going east and west.

#### MISCELLANEOUS

J. W. TODD, CORINTH, ONT., Breeds of Tamworth and Berkshire Swine, has for quick sale a pair of Berkshire Boars for \$30, and young Tamworth Sows in pig. at \$45. Registered and Express charges pre-paid. Write at once.

## **TURKEY FEATHERS**

Will buy any quantity of turkey feathers from the body, wing or tail. Send sample and price wanted.

KULIES & CO. 261 GREENE ST. NEW YORK

#### BERKSHIRES FOR SALE few choice Young Boars, three mont

old Apply to S. J. LYONS, Box 19, Norval, Ont. HOLSTEINS AND TAMWORTHS

FOR SALE. Seven bulls from 5 months to 15 months: 65 pigs, either sex, all ages; write for prices. Phone in residence, con-nection via Cobourg. BERTRAM HOSKIN. The Gully, Ont.

#### NITHSIDE FARM

NITHSIDE FARM
Herd of large English Berkhires. Southdown Sheep and Silver Grey Dorking
Fowls, 4 cholee young sow due to farrow in April and May. Also choleer of Silver Grey Dorking Gooderels at \$2.00
each. Only first-class registered took
sent out and satisfaction guaranteed.
E. E. MARTIN. CANNING P.O.
Oxford County Parks Sistation. G.T.E.

#### Oxford County. Paris Station, G.T.R. Brookside Holsteins

FOR SALE.—Two Bull Calves, dam of one Lily De Kol Pietertje, 25.80 lbs. butter in 7 days at 5 years, sire, Maggle Echo De Tone Calves C

GEO. BENNETT, from Charing Cross. Ont. B. E. HAGERMAN, - Minto, Ont

AYRSHIRE GATTLE FOR SALE

One Bull. 8 months old: 10 Cows and big mikers and big cattle. Prices right. Terms to suit. Write or come and see. Record of Performance work a specialty. Address WILLIAM THORN, Trout Run Stock Farm, Lynedoch, Ont. Local and Long Distance Phone.

### HOLSTEINS

### **WOODCREST HOLSTEINS**



A few choice Bull Calves for sale; six to ten months old. Sons of Homestead Girl De Kol Sarcastic Lad, and grandsons of Pietje Recently tuberculin tested by Inspector. Write for pedi-

22nd grees and prices. WOODCREST FARM

### RIFTON: ULSTER CO., - - NEW YORK

### RIVERSIDE HERD

HOLSTEINS FOR SALE

Ninety head to select from, 25 are two and three-year-old heifers. Herd is headed by Prince De Kol Posch, Son of Lady Aaggie De Kol, sweepstake over all two years in succession, 1908 and 1909, in Dairy test at Guelph.

M. RICHARDSON & SON CALEDONIA, ONT.

#### FAIRVIEW FARMS HERD

FAIRVIEW FARMS HERD

Sons of ——HAS FOR SALE—

Sons of ——HAS FOR SALE—

Sons of Poolitae Korndyke, sire of the foereid's Poolitae Korndyke, sire of the foereid's Poolitae Kot Bad.

Kot Bad. 37.20 lbs. butter in 7 dist. but in the sire of seven daughters whose 7 day records average 31.31 lbs. each, unequalied by the sire of Seven daughters whose 7 day records average 31.31 lbs. each, unequalied by the sire of the youngest bull of the breed living or dead. His is the sire of the youngest bull of the breed to sire a .00 lb. daughter or sons of Rag Apple. Is a full sister to Pontiac Clothide De Kol 2nd, 21.22 lbs. whose dam Pontiae Rag Apple. Sons of Sir Johanna Colantha Glad, a son of the highest record daughter of the sons of Sir Johanna Colantha Glad, a son of Colantha Johanna Lad, whose dam as on of Colantha Johanna Lad, whose dam has the simple simp

#### LYNDEN HOLSTEINS

FOR SALE — Holstein Bulls, Korndyke Teake, No. 5509, four years old. He has 21 cows in his pedigree that average over 22 lbs. butter 7 days, A.R.O. Also sons, one 14 months, dam 25.17 lbs. Also bull calves from large record dams. Write for par-SAMUEL LEMON, · LYNDEN, ONT

MERTON LODGE STOCK FARM MERITON LODGE STOCK FARM.
Offers 14 voy vac old helfers whose size are a son of lengereid De Koi, and De experience as the second of the second of the second of the second of the De Koi the 2nd, the founder of the De Koi Tanily. Also a few young the Puttan Seven miles from Ingereoil.
Putnam Seven miles from Ingereoil.

ELMDALE DAIRY HOLSTEINS FOR SALE—One yearling bull, and bull calves, sired by "Paladin Ormsby," whose 3 nearest dams average over 23 lbs. butter in 7 days, and from dams with good records, one 10,500 lbs. in 6 months, and 7 day A. R. O. record 20.69

butter 60 days after calving. FRED CARR, Box 115, ST. THOMAS, ONT.

REG. HOLSTEINS AND HAMPSHIRE HOGS MAPLE VILLA STOOK FARM is now of-fering a few choice bull calves fit for ser-vice, sired by Sir Beets De Kol Poech, who has several world's records in his blood. Some of these bulls are prize winners at the fall fairs.

E. C. GILBERT, - PAYNE'S MILLS, ONT.

### **Homestead Holstein** –Herd-

Headed by the great young sire Dutch land Colamba Sir Abbaterk. Dam and shire's dan severage MSi bla. butter far, days. He is the result of crossing Tidy Pauline be Koi, 224, (the best member of this famous family), with the great son of Colamba 4th Johanna. Siz ibs. butter following. Bull calves offered from one to 12 months old, from dams up to 25% bbutter in 7 days.

EDMUND LAIDLAW & SONS Box 254 Aylmer West, Ont.

HOLSTEIN CATTLE
THE MOST PROFITABLE DAINY SHEED
Illustrated Descriptive Booklets Free
HOLSTEIN-FRIESIAN ASS'N OF AMERICA
F.L. HOUGHTON, SECY, BOX 146, BRATTLESORD, YT
\$\$-\$11

#### HOLSTEINS

of you are wanting HOL-Write:
GORDON H. MANHARD.
Manhard, Ont.

### LAKEVIEW HOLSTEINS

Bull calves sire by Count lengered Fayne De Kol, who is brother of the two great cows, Crace Fayne Bod Homesteed, 555 lbs. butter in 7 days, and be Kol Cycamolie, Ball lbs. butter in 7 days, and in 166 Cycamolie, Ball lbs. butter in 7 days, and be Kol Cycamolie, Ball lbs. butter in 7 days, and in 166 Cycamolie, Ball lbs. butter in 7 days, and in 166 Cycamolie, Ball lbs. butter in 7 days, and cover with recorded of 20 lbs. Telephone, p.F. Collen, Sronto, Ont.

### "LES CHENAUX FARMS"

VAUDREUIL, QUE.
HOLSTEINS-Winners-in the ring and
t the pail. Gold Medal herd at Ottawa They combine Conformation and Produc-

tion.
Bull and Heifer Calves from our winners R. HARWOOD, Prop. D. ECDEN, M E-o-w-15-6-11

RIVERVIEW HERD RIVERVIEW MEMD
Offers Bull Oalf born Pebruary 14th, 1910.
Sire Sir Angle Beets Segis. dix dame in
pedigree average 25.50 lbs. in seven days.
P. J. SALLEY
416-10 Lachine Rapids, Que.

HOLSTEINS I am offering my Stock Bull, Son of Prince Posch Pietertje C., rising three years. Also a son of Sir Hengerveid Tehee, one year old, from R. of M. cow. Telephone connection.

C. R. JAMES, Thornhill, Ont.

#### FOR SALE

Holsteins of the choicest breeding, and individual merit. All ages, male and fe-male.—CLARENCE R. BOLLERT, Zora Lodge Farm. Tavistock, Ont.

#### HOLSTEINS

FOR SALE - Buil calf born Mar. Mth, 1910, dam first heifer of her age in Oanada to make 20 lba. butter in 7 days. Buil calf born. Apr. 17, dam sister to dam of No. 1, A.R.O., 7 days at 2 yrs. 170 butter. Buil calf born Mar. 6, dam dampher of dam of No. 1 calf. "Official record at 2 yrs. and 19 official record at 2 yrs. and 19 official record are right for imaginate and price of the product of DAVID CAUGHELL, Yarmouth Centre, Ont.

### HOLSTEINS FOR SALE

Am offering a few choice helfer calves and yearling helfers, the latter bred to Prince Abbeter Microns, "whose eight Prince Abbeter Microns," whose eight of the prince the prince helper the prince helper the prince the prince and the prince article for quick huyers. Is the prince article for quick huyers. Editors will be mite by appointment. S. E. HULET, "Nowwich, Ont.

### LYNDALE HOLSTEINS BROWN BROS.

LYN, - ONT.

### **HOLSTEINS FOR SALE**

15 two year old heifers. A select bunch, Majority of them have A. R. O. records. A few 9 mos. old bulls with two and three of their nearest dams tested R. CONNELL, Roebuck, Ont. ein

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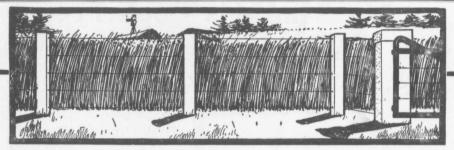
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