

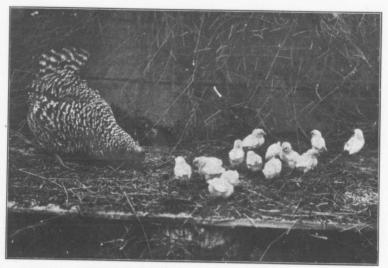
VOL. XXVIII

NUMBER 5

# RURALHOME

PETERBORO, ONT.

FEBRUARY 4



HERE DARLINGS, THERE'S PLENTY FOR US ALL

The demand for poultry products, of first quality, has far out-grown the supply in Canada and as a result, higher prices than ever are being realized for fresh eggs and for fowl of all kinds. The poultry department of your farm should be a profitable one. Is it? If not, give it the attention that it merits and it will give a good account of itself.

DEVOTED TO

BETTER FARMING AND GANADIAN GOUNTRY LIFE

Poultry Number

PRICE 10 CTS.

# Don't Wait Too Long

To see what Supplies or Machinery will be necessary to equip your dairy or cheese factory for another season. Orders sent in at the last minute are often delayed owing to the rush. Look over your equipment now and send us a list of articles wanted and we will quote you surprisingly low prices for high quality goods. You may need a

# New Separator, Churn Cheese Vat, Shafting

or something else just as important. Remember that when dealing with us you are dealing with the oldest dairy supply house in Canada, and one that satisfactory business dealings with customers has made the largest in the Dominion. Don't be backward in sending in orders because you think them too large or too small, we haven't been stuck yet on an order because it was too large, and the small ones receive just as careful attention as do the large orders.

# D. Derbyshire & Company

flead Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P.Q.

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS



# \*\*\*\*\*\*\* The Taxation Question 2

Ed., Farm and Dairy:—It was re-cently my privilege to look through the files of your excellent paper, for the year 1908, and I was pleased to see so many letters on the taxation question; especially when I found so many of the writers advocating the exemption of improvements and a sintax on the unimproved value of land. Permit me to inform your gle tax on the unimproved value of the land. Permit me to inform your readers that the Single Tax Associa-tion has put into circular Tax Associa-tion proposing a change in the Muni-cipal Tax Laws of Ontario. The peti-tion is addressed to the Provincial Legislature, and asks that the Assess-ment Act be amended "so that muni-cipalities may tax improvement values; business assessments, incomes and salaries to be classed as improve-ment values, and the difference in the rates, in every case, to be determined

ment values, and the difference in the rates, in every case, to be determined by the municipality."
We submit this proposition to the farmers of Ontario for their consider-ation, and shall be glad to hear the opinions of any who are interested in the question of taxation, either through the columns of your journal or by personal letter. To any who will write us we will supply sample copies of the petition, and any information of the petition, and any information on the subject they may desire. Ad-dress,—L. B. Walling, Secretary Sin-gle Tax Association, 75 Yonge St.,

### Tax Land Values Only

Ed., Farm and Dairy:—Replying to T. H. N., Wellington Co., Ont., in your issue of December 23rd, why place taxes on land we contend as single taxes on land walues, a few square yards are often worth more in one place than many acres are in anone place than many acres are in anone place than many acres are in any one place than many acres are in mindle you will be a seen than the place of the place

New Zealand has this system,
Remember as says Henry George:
"All things come from land and everything returns there." How can you
tax special privileges and how can we
decide what ones are of the nature of
monopolies and what are not? We
want local option in Canada. Why
should this not apply to taxation as
to taxation as
completed in the control of the control
co., Ont.

### Farmers Putting up Silos

While visiting at the home of Mr. J. Elliott, of Tatehurst, Quebec, a staff representative of Farm and Dairy was surprised to find how many farming in that seation had recently error. was surprised to find how many farmers in that section had ere in that section had ere in that section had expended silos. During the passently exempted with the passently county, the hay crop in Chateaugusy County Que., has been unusually shortduck the farmers of the section, therefore, have started to grow more corn. Mr. Elliott erected a new sito last year. "I had often thought of putting up a silo," said Mr. Elliott our representative, "but some farmers told me that it would not pay me to erect one. I took time, therefore, to look into the question until I beceme satisfied that a silo would pay me I found that our best farmers were using them and a sho would pay me I lound that our best farmers were using them and that all stated emphatically that they had found their silos a good invest-

ment."

Among the farmers of the section
who have erected siles are Messrs.
John Dixon, Wm. Tate, Alex. McDougal, Andrew Campbell, John Scott
and Andrew Ross, all of whom live
near Ormstown, Que. Mr. Elliott's
farm won one of the prizes offered by
the Government in the good farms
competition held in the Province of
Ouebec. Quebec

### President Falconer at Ottawa

The Taxation Question

The Taxation Question

Proposed Change in Municipal

Laws

Ed., Farm and Dairy:—It was recently my privilege to look through the files of your excellent paper, for the year 1908, and I was pleased to see so many letters on the taxation question; especially when I found so work. "Education," continued the farmers' attention into the way into question; especially when I found so work." "Education should mean that you and that we are dead." declared Dr. Palconer, president of Toronto University, at the official opening excrements and provided the files of the provided the prov

which he could best develop his work. "Education," continued the develop his work. "Education," continued the develop his work. "Education," continued the developed that the can use them in the best manner possible. "Industry intelligence and integrity," was the motto commended by Dr. Falconer. "Mere industry was not enough, there should also be intelligence, which quality was primarily necessary in the case of the farmer. The man who thinks, is bound to ultimately triumph over his competitor. Again," continued the speaker, "we need integrity. We want the name of Canada so understood on the markets of the world, that wherever Canadian goods may go they shall be trusted. goods may go they shall be trusted.
This would be an inestimable asset."
In giving his reasons for coming to

In giving his reasons for coming to Ottawa to address the gathering Dr. Falconer stated that as president of the people's university he must come into touch with the people. Fully two-thirds of the students of Toronto University came from outside the city of Toronto. Its attendants were practically all the sons and daughters of Ontario. "The work that is done in the university is work that comes directly to the homes of the province. rectly to the homes of the province. Every time you call in a doctor, every Every time you call in a doctor, every time you travel over a railroad or are in a great building, you are relying upon the education furnished at our universities. Every one must be interested in this." It was from the farm home stated the doctor that the best students came. The quiet strong intellectual life of the farm showed in some of Canada's greatest men to-day. He was persuaded that the well being of the Dominion depended on the life of the farmiles on the farms and urged upon his auditors, the necessity of a strict moral intellectual home life.

Dr. Falconer concluded with a warning against the sweets of the present

Dr. Falconer concluded with a warning against the sweets of the present prosperity. The biggest things upon the farms he said were the men and women that lived there rad the boys and girls that went to school. It was often forgotten that great benefactors of the country were the old men and women who lived quietly at home, sending their sons through college to occupy positions of trust.

### Clydesdale Grants

At a meeting of the executive committee of the Dominion Clydesdale Breeders' Association, held in Toronto, Jan. 27, grants were made to the various leading exhibitions as follows: Winnipeg, \$40 for best Clydesdale stallion; \$30 for best Clydesdale mare and \$25 for best teny of Clydesdale mare or geldings in harness.

Brandon, Calgary, Regina and Edmonton, to each, \$25 for best Clydesdale mare, \$25 for best Clydesdale mare, \$25 for best tenm of Clydesdale mare, \$25 for best tenm of Clydesdale mare, \$25 for best tenm of Clydesdale mare, \$25 for best clydesdale mare, \$25 f

mare, \$25 for best team of Clydesdale mares or geldings in harness. Victoria and New Westminster, B. C., to each, \$25. The foregoing grants are smaller than those made in 1968 owing to the receipts of the association last year from registry fees having been less than in 1967.

DELEGATES TO FAIRS Delegates to the various fairs were

Delegates to the various fairs were elected as follows: Calgary, R. Thorburn, Davidson, Alta.; Winnipeg, John Graham, Car-berry, Man.; Ottawa, Peter Christie, Manchester, Ont.; Toronto, John Manchester, Ont.; Toronto, James Henderson, Belton, Ont.

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It is desirable to mention the name of this publication when writing to advertisers

Issued Each Week

FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII.

FOR WEEK ENDING FEBRUARY 4, 1909.

No. 5.

# THE POULTRY INDUSTRY OF CANADA

A. G. Gilbert, Manager Poultry Department, Central Reperimental Farm, Ottawa

# What It Was, 17hat It Is, and of What Yast Importance It Will Be—A Great and Comparatively Undeveloped Asset.

THE Poultry Industry of Canada, past, present and future, is one of the most important subjects that can engage the attention of the poultryman, be he producer or consumer. It is easy to say "Oh! the poultry industry surely keeps pace with our rapidly expanding country." But does it? There are grave reasons to conclude that it does not. The production of poultry and eggs, although much greater in recent years, has not kept pace with the demand. There are some phases of the past and present markets for poultry and eggs, that must be taken into consideration before we can arrive at a correct estimate of what the future of these markets is likely to be.

First.—What was the nature and value of past markets? Second.—Some interesting features of the present day markets and their value. Third.— What the future of these markets is likely to be.

It requires a man of years and experience to give you anything like a correct answer to this first query. Twenty-five years ago there was a mighty small winter market in and about the large cities, for eggs and poultry, for there was very little product and few purchasers. People did not expect to get, and did not ask for new laid eggs. Forty cents a dozen for fresh eggs was considered out of the question! And, then, you were apt to be told, the eggs had been kept by some secret process to be launched on the unsuspecting customer during winter. "Anyway," it would often be said

by a prospective purchaser, "we are sure of the forty cents and we are not of the eggs." The superior quality of poultry was as little appreciated.

# PEATURES OF PRESENT DAY MARKETS

There is a feature of the present day markets for poultry and eggs that is positively unique, and in this way. If you were to say to a business man that we had increased home production in the past few years and decreased exports, he would at once say, that you have a home market of very little value. That would be a most likely result. But such, extraordinary to state, is not the case. We actually have in the face of increased home production and decreased exports, increased prices.

As compared with the export of poultry and eggs for the year 1904, smounting to \$1,250,197, those of the succeeding year 1905, show a considerable falling off. The first inclination would be to attribute the decline in exports to a lessened demand on the part of the English consumers. But the reverse is actually the case, for Canadian eggs and poultry of first quality, were never in greater request or in better repute than they are at present. What then the cause? Why the increased value of the home market, or, in other words, "increased home consumption with increased presents."

DRVBLOPMENT OF HOME CONSUMPTION What has caused the home consumption to so

Y

Free Range and the Hopper System of Feeding
The introduction of the hopper system of feeding has greatly lessened the labor necessary in caring for chicks. It has also proved to be a very succeedful means of raising them. Scene in the orehard at the Ontario Agricultural College, Gluoph.

rapidly develop-in the face of increasing prices? 1. A rapidly increasing population in rapidly developing cities. 2. The high price of meat. 3. The convenience and despatch with which eggs may be prepared in restaurants, quick lunch counters, &c., as well as in our homes. 4. Less waste in a dozen eggs than in many cuts of steaks, roasts, &c., even at the same cost. 5. The frequency with which eggs are now prescribed by physicians in many forms of illness. 6. It is a nutritious and toothsome article of food, a fact which is being more generally appreciated than heretofore. 7. The knowledge, the extra care and effort necessary in the procuring of the strictly new laid egg, and the number of producers who are so situated as to permit of their placing the strictly new laid egg in the hands of the city

dealers. 8. The comparatively new summer market of high price for the strictly new laid article.

Experience and close observation have shown me that the foregoing are factors to a greater or less extent in causing the increased value and rapid development in recent years of our home market.

## PROGNOSTICATIONS AS TO THE FUTURE

The future of the poultry industry I hold is a bright one and for the following reasons:

A. It will offer still larger margins of profit than at present, and in this way: If, under present conditions, the average output from each hen is 60 to 90 eggs per annum and this permits of 100 to 150 per cent. of profit, what will that profit be when trap nest selected hens lay, on an average, 160 to 180 eggs each a year? Think of the results in poultry and eggs!! Think of what this will mean to the future poultry interest of the country!

B. There is surely a bright future for poultry because our Eastern country is not only becoming

better populated, but the people are becoming more advanced in home comforts and in their tastes for still better food and more of it.

C. There is likely to be vast populations in the new and rapidly developing cities of the West. This means a great drawing on the surrounding districts for food and fuel. Depend upon it, that food will! not be of second quality. Poultry of the best description and eggs of undoubted flavor will be a large part of that food. Politicians talk of the teeming millions that are to find homes in New Ontario, Manitoba, Saskatchewan, Alberta and other provinces. And doubtless these millions will eventually be found there.

D. Did any reader ever think of what a large area of surrounding country a great city

draws on for supplies? Well, some of our cities, such as Montreal, Toronto, Hamilton, Winnipeg, Vancouver, Victoria, and our progressive City of Ottawa are assuming tidy proportions. Other smaller cities are rapidly growing up. Did it ever occur to you in connection with these cities, particularly the greater ones, that in recent morths a vast number of restaurants, Chinese and cherwise, quick lunch counters, &c., have sprunt up. Why, in our tidy little City of Ottawa nearly a dozen lunch counters have been established within the past few months. In these places you will find eggs in every form of cooking are in very great demand, and closely following comes chicken, or, chicken and ham sandwiches. This means an enormous demand in the various centres of population, and it is a demand that is

likely to rapidly increase. In our domestic economy, in physician's prescriptions, eggs are more largely and rapidly playing an important part.

All and every form of the present demand for eggs and poultry greatly magnified, doubled, and trebled, falls far short of what the near future will call for. Surely there is a most encouraging outlook for the Poultry Industry of Canada.

### Working the Mare

W. F. Kydd, Norfolk Co., Ont.

I work my mares all winter when I have work for them to do. If there is no work, I turn them out with the colts in the barn yard for exercise.

Nothing is more injurious to horse flesh of all kinds than lack of exercise.

After the foal is born, the longer rest the mare gets, the better the foal will be in the fall, but, after the foal is two weeks old, there is no reason why the mare should not be given considerable light work.

I would prefer to have the mare have her foal in a large box stall, rather than in the pasture field, even in the middle of summer, because it is much more convenient watching her and it often enables one to be at hand at the time of birth.

### How Do You Value a Cow?

What is the proper way to decide the value of a cow? This question was asked by Mr. C. F. Whitley, Superintendent of Cow-Testing Associations, at a dairy meeting held at Keene, Ont., and, as yet, we have not heard it answered. Mr. Whitle have the following records of the milk produced of two cows in the herd of a farmer at Bobeaygeon, Ont.

COMPARISON OF TWO COWS, SAME HERD (BOBCAYGEON)

TOTAL YIELD OF MILK—SEVEN MONTHS

| Weight of Milk 5595                   | lbs. |
|---------------------------------------|------|
| Weight of Fat 186                     | lbs. |
| Yield of Cheese 509                   | lbs. |
| Value of Milk\$55 95                  |      |
| Cost of Feed, (7 months at \$3) 21 00 |      |
| Profit,\$34 95                        |      |
| The Least Profitable Cow              |      |
| Weight of Milk 2790                   | lbs. |
| Weight of Fat 110                     | lbs. |
| Yield of Cheese 272                   | lbs. |
| Value of Milk                         |      |
| Cost of Feed, (7 months at \$3) 21 00 |      |
| Profit\$ 6 90                         |      |

It will be noticed that one cow gave practically just double the amount of milk in seven months that the other cow did. Does this indicate that she is worth just twice as much? By some, it will be claimed that she is worth more than twice as much because she did not cat twice as much as the second cow, although she gave twice as much milk.

When, however, we look at the profit of the one cow compared with the profit of the other, we find that the first cow gave five times as great a profit as the second cow. Does this mean that she is worth five times as much? If it does not, then how much more is the first cow worth than the second cow?

These figures all go to show that the main profit in keeping cows lies in the amount of milk they can be induced to give above the actual cost of feed. The greater amount of milk the cow gives above the cost of feed, the greater is the proportion of clear profit in handling her. In the case of the second cow here referred to, it will be noticed that while the first cow gave twice as

much milk as the second cow, she yielded five times the profit. This was because once the cost of feed had been deducted, all the milk she produced above the cost of her feed, represented clear profit. For instance, it is infinitely more costly to keep five cows, each yielding a profit of only 36.40, than it is to keep one that alone gives a profit of 384.90. By keeping one cow instead of five, the feed of four cows is saved as well as the labor of milking and attending to them, and the space they occupy in the stables. We would like to hear from our readers as to how they think the value of a cow should be determined?

### Care of the Horse's Foot

A horse's hoof grows from the top. A structure called the coronary band lies in a groove in the upper margin of the wall of the hoof just between the hair and the hoof which secretes the horny tissue. As a consequence the growth always takes place from above downwards. In a healthy hoof growth is continuously taking place. In order to maintain the symmetry of the foot the amount of wear from the bottom must equal the growth from the top. Anything which destroys the equilibrium which should exist between the growth and wear will injure the foot. If the wear is greater than the growth the hoof will become too



An Imported Clydesdale of Quality

Showing desirable conformation of shoulder, back and croup, with extra fine quality of bone, probably too light to suit all judges. Owned by J. Larkin, Lincoln Co., Ont,

short, hence the need of shoes. If the growth exceeds the wear the hoof becomes too long.

The latter condition is not unfrequently met with in colts in winter quarters, especially during their first year. The growth of horny tissue is usually very profuse in young animals and as they are often running in barn yards or stalls whic' are covered with straw or manure there is practically no wear on the hoof, and it grows very long, sometimes approaching almost to the shape of a man's foot. This condition should never be allowed because the elongated foot throws all the tendons and many of the ligaments of the leg out of their proper bearings and predisposes to various blemishes. With a chisel and mallet the toes should be shortened as often as necessary to maintain a proper symmetry of the foot. When colts are at pasture no trouble will be experienced because there will be sufficient wear on the foot to keep it in proper shape.

Moisture is essential in keeping a horse's foot in good condition. Horses running at pasture every night are sure to have their hoofs very effectually soaked out by the action of the wet grass on the feet and no other application of moisture will be necessary. But when horses are kept in the stable and especially during the dry summer months it is a good practice to apply some moisture to the feet every day. It can be done in various ways such as standing in a tub of

water while they eat their dinner or by placing on the feet boots made out of heavy felt which have been soaked in water.

Some farmers have a puddle of mud in some stalls not used for the night in which their horses are tied every day while they eat their dinner. This is a dirty way of doing the job, but it will soak out the feet all right. Many horsemen will fill up the sole of the horse's foot every night with some moist substance such as linseed meal or sometimes even moist clay and the practice is all right, the only trouble being that while the sole of the foot is kept moist and cool the walls are not benefited at all by the application. Every man must exercise his own judgment as to how he will apply the moisture. but the careful horseman will see to it that it is done in some way for without it the feet of his horse will soon become dry and brittle .-"Centaur."

### Winter Care of Sheep

The flock should be strong and in good flesh when winter sets in, and they will be, if reasonable provision has been made for fall feel. If in good condition they will be the more cheaply wintered. They can be kept doing well on clover hay and a few roots-say three pounds per head each day and a liberal feed of pea straw. If a little grain be fed for about four weeks before they lamb-one pound per head each day of mixed oats and bran is good-they will be in good condition when lambing time comes. The grain feed should be doubled after lambing and the quantity of roots (mangels or turnips) increased to nearly all they will eat. This will insure a good flow of milk, and it is during the first two months a lamb is sent on the road to profit or becomes stunted and small. After that age they can more easily be helped by other foods.

The reason for not feeding the ewes largely with roots before lambing is that they are bulky and cold, being largely composed of water, and when eaten in large quantities seem to affect the fœtus so the lambs are born soft and weak and very difficult to save. Either turnips or mangels can be fed to ewes with safety, although very many prefer turnips before lambing and mangels after, because the latter are considered better milk producers. But mangels should never be fed to rams. They have the effect of producing stone in the bladder, and sometimes cause serious loss. Turnips do not have this effect and sheep should have more succulent feed when not on pasture. Ensilage is not a safe food, it often or generally is too acid, and will cause severe indigestion, which will in turn cause a loosening of the wool by feverish heat in the skin, and much of the fleece is often lost besides lowering the sheep's vitality.-"Sheep Industry in Canada."

### Dealing with Bovine Tuberculosis

C. P. Baird, Vancover, British Columbia

As yet there seems to be much talk and little action taken by our sister provinces in regard to the checking of that dread disease, tuberculosis. Tuberculosis causes a great annual loss to stockmen, and also causes many deaths among our fellowmen.

There is absolutely no use of any government trying to force upon the people a system for checking this disease, when so many people do not uncerstand what the disease is and the dangers which they and their neighbors are subject to, by keeping animals which are tubercular. The people will not stand for compulsory rules laid down by governments. A policy that is needed is one of education. Bulletins pertaining to various phases of this disease and its control should be published. This subject should be spoken on by competent men at public meetings through the rural sections.

A campaign against tuberculosis has already

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we have living of Hamilto them he service. been started in British Columbia. The work has been conducted along the right lines; namely, that of education. Last fall the Agricultural Department sent a veterinary inspector to nearly every section of the province where cattle are raised, to hold meetings for the purpose of dis-

cussing the various phases of the disease and methods of combatting it. Teaching of this nature is just what the people need and want, and when they fully understand the dangers of tuberculosis they will then work hand in hand with the government for the eradication of this fatal disease.

"The rural mail service that we are enjoying is highly satisfactory. We have had our mail delivered four times a day coming from both Ancaster and Hamilton. A letter posted in North Dakota at 8:30 p.m. on a Monday reached me by 5:30 p.m. on the following Wednesday. This system of mail delivery is a very great convenience."

—J. J. Lyon

# FREE RURAL MAIL DELIVERY IN CANADA

It is now several months since the first, free, rural mail delivery route was established in Canada. It runs between Hamilton and Ancaster, Ont., and is proving a great success. The farmers are delighted with it as their letters published in this article abow.

A number of other routes are now in operation in other parts of Canada. Hundreds of Canadian farmers now enjoy the benefit of having their mail delivered and collected at their doors each day. In some cases they have their mail delivered to them twice a day.

It is less than a year since Farm and Dairy started its campaign for free rural mail delivery in Canada. When some 15 months ago we sent our special representative to the United States, to go thoroughly into the question of free rural mail delivery at first hand, we had little expectation that some of our Canadian farmers in less than a year would be enjoying this service. Our representative, who interviewed the Hon. Rodolphe Lemieux, Canadian Postmaster-General, was informed by that gentleman that he was opposed to the introduction of free rural mail delivery into Canada. After we had been publishing our special illustrated articles on rural delivery for several months, the government began to change its views. It saw that the farmers were becoming aroused on the question. By the time the Dominion elections were approaching the government had completely changed its position and announced that it intended introducing free rural delivery in Canada. This shows what the farmers of Canaada are able to accomplish through an influential farm paper like Farm and Dairy.

### DELIGHTED FARMERS

Knowing that our readers situated throughout the Dominion are greatly interested in this question of Free Rural Mail Delivery that is being enjoyed by a few of their more fortunate brethren, a convenience rural mail delivery is to me. Our mail carrier starts from Aneaster, a distance of seven miles from Hamilton, in the morning, collecting all letters from the boxes that are turned OTHERS WILL WANT IT

"So far our rural mail delivery has been quite satisfactory. As our home is situated only a couple of miles from the city and as we have hourly communication by electric railway there-



Free Rural Mail Delivery in Canada

Hundreds of Canadian farmers now enjoy the benefit of having their mail delivered and collected at their doors each day. The illustration shows Cank Exclusione collecting the first letter posted in Rural Mail Box on the Hamilton-Ancaster route last October. Read the adjoining article.

towards the road, posting them in Hamilton before 9 o'clock. At 11 o'clock he brings the mail from Hamilton, putting the letters and papers in our boxes, and turning them towards the houses. Thus when the boxes are empty they are parallel with the road. At 2 p.m. the letters are collected again and we get another delivery at 5 p.m. A letter posted in Toronto at 7 o'clock in the morn-

with, we do not feel the improvement quite so forcibly as those living at a greater distance. The furnishing of free delivery to those long established mail routes will be only a meagre instalment of what the people would like to have. Should it stop at that the service will, in all probability, cause jealousy and disastisfaction in the minds of those without the pale. The question is can the government do more at the present time unless they curtail expenses in other directions."—John S. Rowman.

"I have had the pleasure of having the service of free rural mail delivery for some two months. I consider it a great boon to the farming community in this section. The mail is delivered twice daily and does away with the inconvenience of going to Hamilton for expected mail when duties call for us to be at home. I consider the service a great benefit to the farming community in this township."—William Renton.

"We find the rural mail delivery service very convenient and now think we could not do without it. We now receive our letters in good time whereas before they would be two or three days in the post office before we could get them."— Richard Stroud.

"I am well satisfied with the mail delivery and find it a great convenience. We get two deliveries a day from Hamilton instead of having to go three miles to get our mail."—J. Allen Binkley.

### GET MAIL TWICE A DAY

"I can speak only in terms of the highest praise of the new free mail service that we are enjoying on the Hamilton and Ancaster route. You can imagine what a convenience it must be to us to have our letters and daily papers brought right to our door twice a day, Il a.m. and 5 p.m., whereas in former times we had to go to the city, which is three miles distant. We have enjoyed the service now for about three months. It works like a charm and we especially thank the Hon.



Rural Free Mail Delivery— The Post Office at the Front Gate
The photo was taken on the first rural route to be established in Canada. It is between Hamilton and Ancaster. It shows
Mr. John A. Brown receiving his first mail from a rural mail box as his age too Saturday, Oct. 10th, 1988.

we have secured a number of letters from farmers living on the first route established, that from Hamilton to Ancaster. Here is what a few of them have to say in regard to the benefits of this service.

"It gives me much pleasure to tell how great

ing is delivered to us at 11 a.m. the same day. We are perfectly satisfied with the rural mail service. Our letters are posted quickly and delivered promptly. This service has proved itself a great boon to all farmers of this section."—John Ruttrum.

Rodolphe Lemieux, Postmaster-General, for honoring the county of Wentworth with the first service."—Jas. Forsyth.

A 50 PER CENT. INCREASE IN MAIL

"We are enjoying the free mail service to the fullest extent. We find it most convenient, receiving our mail and scanding it right from our door four times daily. The mail carrier informed me that since the inauguration of this service, the mail matter on this route has increased 50 per cent. This goes to show that people are taking advantage of the service. This mail carrier could serve twice as many people at the same cost by making a circuitous route, and make two deliveries on each route."—E. J. Guest.

The evidence to hand regarding Free Rural Mail Delivery as outlined by the foregoing letters is right in line with the testimony of the farmers in the United States who were interviewed by Farm and Dairy over a year ago and much of which was published in these columns. The service is popular wherever it has been tried and is an unqualified boon to the farming community.

The question of free rural mail delivery will not down. We must have not only the service as at present outlined by the post office department, namely, along existing mail routes, but in all sections where the population is of such a density as to warrant its establishment. Now that the thin edge of the wedge of rural free delivery has been introduced in Canada, let us not fail to utilize every opportunity to agitate for the extension of this service to all parts that can justly claim it. At the same time we must have patience that we may allow the government opportunity to introduce it in the most economical manner possible that we may avoid the costly mistakes that were made by the United States government in connection with the inauguration of the service in that country.

### What the Trap Nest Shows

Prof. F. C. Elford, Macdonald College, Que.
Trap nests are to the poultryman what the
weigh scales and the Babcock test are to the
dairyman. For accurate results they are just as

Trap nests tell which hens are doing the work and which are merely boarders or "thieves and robbers" as Mr. Stevenson, of Ancaster, calls certain cows. The trap nest showed that in a flock of 230 hens at Macdonald College one hen gave there are signs that point towards a good layer, they are not infallible. Very often the hens we think are doing the laying when put under the trap nest prove otherwise. I know of one hen that had all outward indications of a persistent layer but when tested with the trap nest failed to lay a single egg in six months.

For the one who wishes to know what hens are worth keeping the trap is advisable, as it is also for the one who wants to breed up a good laying strain. True, to use the trap nests requires a considerable amount of extra work and some people



Favorites from a Favorite Breed

The White Wyandottes illustrated are the first prize cockerel and the second prize pullet at the recent Peterboro Poultry Show. Note the blocky type and the graceful curves which are characteristic of Wyandottes.

are not so situated that they can install the system, but the results are worth an effort and those who can might do well to try it.

A trap nest is just what the word implies, a trap so attached to a nest that a hen on entering the nest springs it and shuts herself in. The purpose of it is to confine her there until she is released by the attendant, when her number is taken and marked off the egg. A record is kept of the flock on a record card for the purpose. A combination trap nest suitable for farmers' use is shown and described on page 13 of this issue.

### Breeding and Feeding Poultry

N. C. Campbell, Brant Co., Ont.

Statistics tell us that the average hen in Ontario produces but 80 eggs in a year. The average hen in experiment stations produces approx-

imately 100 eggs in a year. The great room there is for improvement in the matter of the laying proclivities of our average hen is well demonstrated when we learn that individual hens have been found, by means of the trap nest, to have laid 250 eggs and more in a year. It is an old saying that the hen that lays is the hen that pays. As farmers we need to pay more attention to the egg producing capacity of the hens kept upon our farms.



duction, desirable as it would be? It is granted by all that such an increase would be a great stroke of business. The surest way to bring about this desired increase is to breed from stock that we have records of. These records to be obtained by the use of the trap nest. To the average farmer, however, the trap nest is impracticable on account of the labor involved. Their advantage, however, has been vouched for by users of traps nests when they have expressed their surprise at the large percentage of poor layers and drones, and the small percentage of really good layers, that their flocks contained.

Fortunately there are several outward signs whereby we can judge more or less accurately as to the laying ability of the average hen without resorting to the trap nest. A hen, over-fat with internal fat, is sure to be a drone. Kill her at once for use on the table. The hen that matures early is usually a good layer. A large crop is also a good indication. This may be determined by feeling them at night when the hens are on the roost. The pullets that laid well last year will usually repeat the same performance this year. The hen that is broken down behind had better be disposed of, as the little boy well knew when he said to his father: "Pa, kill the hen with the crop behind."

Much depends upon the selection of the male. A good deal that applies to the hen as outlined above is equally applicable here. Get a male bird of strong constitution, of good size and bone, that matured early and if possible one that crowed, early.

The feeding is not a difficult problem when the breeding and the housing are right. Most attention should be given to the breeding, selecting and the housing. A variety of foods should be fed, as well as considerable animal material. Be sure that all food fed is wholesome and clean, and fed in sufficient quantities to produce eggs. This latter is an important point as many do not feed their hens enough to get eggs.

### Successful Experience with Incubators

Geo. Paxman, Peterborough Co., Ont.

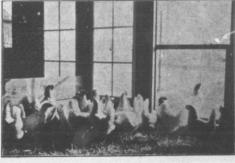
Artificial incubation, as applied to the poultry industry, is one of the cases where artificial means has nature beaten in many ways. I make this statement of my own opinion after many years of successful experience in hatching chickens by means of the incubator. One can never depend upon the hen. He never knows when she will quit. With the incubator it is quite different.

Most breeders look upon a 60 per cent. hatch as a good one; to me a hatch would be "rotten" if it were not at least 75 per cent. In all my experience I never obtained less than 80 chicks from 120 eggs set and I have gotten as high as 107. In this latter case on the seventh day, I tested out eight infertile eggs, leaving 112 and from these 107 chicks were hatched and very one lived through until the time of marketag.

At the outset one must have hatchable eggs before chickens can be obtained. The fertile egg is not always a hatchable egg. On one or two occasions, when hatching eggs for neighbors, the truth of this was amply demonstrated, as I did not get the same measure of success as when eggs from my own flock were set. The breeding stock must be in the best of shape in order to obtain hatchable eggs. They must be exercised and made to work for every bit of food which they obtain. This can be done by burying all the grain in a litter and by feeding green stuff tied up to the ceiling in such a way that they must jump for it. Plenty of fresh air in the house is absolutely essential.

### CHOOSE A GOOD MACHINE

In selecting a machine nothing but the best should be chosen. It is advisable to get one of a capacity not smaller than 120 eggs. With the machine that I have (The Chiatham) I can hatch anything that can be hatched with a hen. There is a wonderful difference in machines, even in machines of the same make. It is absolutely necessary that the machine be heated evenly in



Healthy Birds in a Healthy "Cold Air" House.

In order to insure success in winter eig production we must provide a suitable poultry house. One that is dry, free from draughts, and in which there is no smell of hens, is the ideal. Another photo of this same house, and a description of it by its owner, Mr. Barlow Gumberland, appears on page 15 of this issue.

four dozen eggs while another gave over eighteen dozen. It showed that ten hens averaged 140 eggs while another ten averaged 14. One hen laid just as many as 14 hens.

In most of these cases there was very little difference in the appearance of the birds. Though

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all parts. This is sometimes difficult to obtain in some incubators.

My incubator was sometimes set in a small room on the ground floor, but most generally in the cellar. The cellar is the best place for it, provided it be not too damp. Before placing the eggs in the machine at all, I heat it up to about 100 degrees and run it at 100 degrees for a day or two making sure that I have it regulated so that it will stay at that temperature. A machine regulated at 100 degrees when empty will register 103 degrees, with the bulb of the thermometer on the eggs, after the eggs are in and have become warmed up. I have set my machine after it has been regulated and have never touched the regulator for the 21 days of the hatch, being content all the time that everything was all right.

### COOLING IMPORTANT

Cooling is one of the most essential points of artificial incubation. This constitutes one of the great troubles with the average person in running the incubator. They are timid about cooling. The eggs will stand much cooling after the 10th day and up to the 19th. They require lots of fresh air. The chicks are much stronger when the eggs have been properly cooled. Many operators are inclined to shove the eggs back into the machine, fearing to cool them enough.

It is difficult to injure the eggs after the 10th day of incubation. I have frequently attended to my incubator in the morning, putting the eggs out to cool, afterwards feeding 100 head of stock and partook of my breakfast and then went back and put them '\*u. The eggs should be cooled once a day. The hen knows her job, so we should stay as close as possible to her way of doing things. She will get off the nest once a day and thus cool them; if not she should.

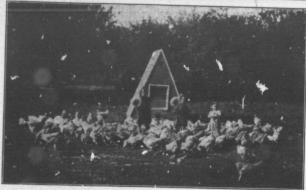
Moisture is another important point in incubation. In fact it is the rock on which many in-cubators have gone to pieces. The amount of moisture is regulated according to the size of the opening of the ventilators. An addition of moisture is seldom necessary. Many are too quick to put in their moisture trays. We must be governed by the size of the air cells. Moisture should never be put in until needed. Each day as the eggs are taken out of the machine to cool it is well to test them, say half a dozen. In this w'y one is familiar with the state of the air cell at all times. If it is seen that they are drying too quickly or that the space in the air cell is becoming too large, as determined by the diagram furnished in the instructions that accompany the incubator, then it is time enough to add the moisture tray.

### THE FIRST EGG PIPPED

When you discover the first egg pipped close up the incubator and leave it until the hatch is through. This is the time that the moisture is most required. Every time you open the door, you will let it out, the chicks thus becoming dried in the shell and unable to extricate themselves. The machine should be left closed for 24 to 38 hours after the first chick has been hatched. This length of time will not hurt them a bit. The chicks are not hungry by any means as the whole of the yoke is in them and this is ample to provide for all their wants. After this period place the chicks in the brooder which has been previously warmed and prepared to receive them.

All the chicks that I have hatched from incubators have always been healthy from the start. I have never had any of the white diarrhosa which we hear so much about. I have not lost a half dozen chicks in all my experience with artificial incubation. I attribute my success to the vitality of the eggs, and to my breeding stock. I have always had good luck in obtaining good hatching eggs, which luck came about by giving the very best attention to that part of the business.

After the chicks are removed to the brooder, the first thing I give them is grit. Grit must be



An Ideal Summer Location That Is Available on Most Farms
Farmers' birds that have an abundance of free range, make the best returns in the feeding crates
Photo taken on Mr. Foley's place in Durham Co., Ont.

gotten into the chicks at the start else they cannot grind their food. Lots of chicks are killed by feeding, them too soon and from failure to recognize that the great need of the chick, is that of grit from the start. \*Once they have been properly started with plenty of grit, one can feed almost anything without danger of killing them.

In addition to anything said in the foregoing, one must follow the instructions sent with the incubator, mixing in with such some good common sense and good judgment. If one would meet with the greatest measure of success in artificial incubation, he must produce the eggs he sets. One cannot depend on others. With eggs from your own stock, which have been properly cared for, you will be sure of what you are setting, and auccess is practically assured.

### Agriculture in Europe

While comparing farm life in Europe with farm life in Canada, in an address delivered at the convention of the Eastern Ontario Dairymen's Association, held recently in Prescott, President G. C. Creelman, of the Guelph Agricultural College, stated that when he left Canada with the



Don't Be Afraid of That Honk on Wheels, Dear, I'll Protect You

remembrance of a year's record of 20.778 lbs. of milk, that had been given by a cow in the college herd, he was not prepared to find, when he landed in Italy, goats being driven from door to door and milked in front of each house to supply the needs of the people. Neither did he expect to find the people spading the land for crops. Labor in Italy was so cheap, in some sections costing only 25c a day, and being poor in proportion, it was possible for the farmers to spade their fields with spades made in blacksmiths' shops and yet make a profit from land for which they paid a rental of \$8.00 an acre.

Mr. Creelman claimed that in Canada, our farmers are inclined to work too much land. This prevented them from working the land as systematically and thoroughly as they should and as is done in many sections of Europe. The difference between the average production of the farm lands of Ontario and the possible production is over 100 per cent. This, President Creelman claimed, showed what a great improvement we could make in the working of our lands.

### Pea Weevils

Eunice Watts, Kings Co., N.S.

Now is the time to pick over and select the peas for seed, many of which will be found bored by the pea weevil, Bruchus pixi. This insect is a small ash-gray beetle barely three-sixteenths of an inch long. It's wing cases are cut off squarely which leaves the end of the abdomen unprotected. Like other weevils this pea-bug is armed with a snout which is somewhat blunt.

These beetles weaken the seed peas by eating the stored food which sometimes destroys the germinating power. In the spring-time the beetles emerge from the peas and later lay eggs in the young pods where the larvae grow slowly.

In order to prevent these ravages all peas should be gathered in from the field. After they are threshed the punctured peas should be picked out and burnt or, better still, boiled for the pigs or hens; but they must not be planted or left undestroyed. Another remedy is to subject the infested peas to the fumes of bi-sulphide of carbon in a tight box, care being taken to remember that this colorless liquid is highly inflammable.

Alberta has developed into one of the best Dairy settlements in Canada. The production of milk in Alberta last year showed an increase of about 30 per cent. It will soon be the principal industry for a large portion of the people of the Province.—Dairy Commissioner, J. A. Ruddick,

### NAMES OF INTENDING BUILDERS

We will send a handsome present to those who First send us the names of people who intend to erect or where we can effect sales of SAFE LOCK SHINGLES, CORRUGATED SHEETS, SIDINGS or CEILINGS. The buildings may be barns, houses, school houses, churches or town halls, etc.

We will also give THREE CASH PRIZES, as follows:

\$5.00 in Cash for the list which brings us the best business \$3.00 in Cash for the list bringing the second best business \$2.00 in Cash for the list bringing the third best business

All lists are to be sent in by the end of February

Names may be sent in at different times, and the person sending in any name first gets the credit for it. So rush along at once the names of intending builders whom you know of now, and make enquiry so that you can send in more names later on.

THE METAL SHINGLE AND SIDING CO., LIMITED Preston, Ontario Montreal, Que.

### This Feed Costs Nothing

if you count the esults it gives,
Livingston's Oil Cake is just what cows need.

cows need.

It tastes good—is
easily digested —
keeps stock in prime condition all the year round—
actually increases the percentage of Butter Fat by
id.4 over Pasture Grass. The richer 16% over Pasture Grass. The richer the cream, the more money you make. Livingston's is the feed that pays for itself.



# Livingston's Dairy Oil Cake

## Record of & B. C. Herd

Ed., Farm and Dairy:-I include Ed., Farm and Dairy:—I include herewith a summary of the work done by the dairy herd of Messrs. Halliday Bros., Sandwick, B. C., near the northern extremity of Vancouver Island. This will show your readers that good returns from dairy cows are not confined to the eastern provinces, nor to districts adjacent to large

| THE RESERVE OF THE PARTY OF THE | Total      | To     |
|--|------------|--------|
|  | lbs.       | but    |
| Name.  | milk.      | fs     |
| Edna   | 6131       | 26     |
| Sophie   | 73621/4    | 32     |
| Maida  | 18371/2    | * 100  |
| Maida (aborted twice)  | 18371/2    | 10     |
| Lop-ear  | 69281/4    | 341    |
| Kirsty   | 70681/     | 311    |
| Blackie  |            | 30     |
| Lilly  | 7026       | 345    |
| Brdie  | 8745       | 360    |
| Seator   | . 4509     | 198    |
| Ethel  | 7220       | 296    |
| Daisy  | .:55701/4  | 265    |
| Maud   | 53241/     | 325    |
| Crazy  | 59501/6    | 260    |
| Prixie   | 60621/4    | 247    |
| Cile   | 5558       | 221    |
| Mary   | . 6364     | 285    |
| Skinny   | 60371/     | 325    |
|  |            | 010    |
|  | 105,6121/2 | 4773   |
| Estimated butter   |            | 5560   |
| Average per cow  |            | .6210, |

Agriculturist, C.E.F.,

# Results of Co-operation

"The foundation of the success of the cheese industry in Ontario is

| ophie  | 320.68   |
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| faida 1837½                                      | * 107.25 |
| Iaida (aborted twice) 18371/2                    | 107.25   |
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| irsty70681/2                                     | 317.54   |
| lackie 7907                                      | 304.40   |
|  | 342.98   |
|  | 352.11   |
| eator4509  | 198.16   |
| thel 7220  | 295.25   |
| aisy 55701/                                      | 262.32   |
| laud 53241/                                      | 325.31   |
| razy   | 260.90   |
| rixie  | 247.85   |
| ile  | 221.36   |
| lary 6364  | 282,88   |
| kinny  | 325.99   |
|  | 020.99   |
| 105,6121/2                                       | 4773.82  |
| stimated butter                                  | 5569 45  |
| verage per cow<br>Average price for butter, 40c. | .6210.   |
| verage returns for butter                        |          |
| verage price for skim milk, 15c.                 | \$131 04 |
| verage returns for skim milk                     |          |
| verage returns for skim milk                     | 9 00     |
|  | 400000   |
| • 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1          | \$140 04 |
| stimated cost for feed                           | 70       |
| Total profit per cow                             | \$ 70 04 |
| J. H. Gris                                       | dale.    |

"The foundation of the success of the cheese industry in Ontario is co-operation," said Mr. Elmer Lick of Oshawa, in a discussion at the Experimental Union meeting in Guelph recently. "Co-operation made possible the grand results of this branch of Dairying. We are inclined to forget. the co-operation which was practised

by our first settlers, in times of trial of house and barn building and of

clearing.
"The poultry industry could be de-The politry moustry could be developed along co-operative lines as much as has been done in apples at ohawa. By handling poultry in a co-operative way, we would have more poultry and that of better quality to sell and it would bring a better wise. better price.

better price.
"Co-operation," the speaker concluded, "is a subject that we are only in the beginning of. We must learn from our mistakes-and keep at this great work until we make Ontario a much better country than any other."

The Feeders' Corner
The Feeders' Corner
The Feeders' Corner
The Feeders' Corner is for the use of our subscribers. Any interested are the first to all of the corner is for the set of the corner is the corner of the corner is the corner of t

Gluten Feed-Feeding Calves

Gluten Feedd - Feeding Calves

1. Inotice in many feeding rations, parjustically those intended for official testing
s feed called "gluten feed." From what
grain is this derived and what is its commercial value. I asked my millman about
it, but he was unable to tell me.
2. Is there any scientific reason or is
it a mere whim for the theory that helfer
ton by becoming fat\*-m. Miller, Welland
Co, Ont.
1. Callute foed is a by meadout free.

1. Gluten feed is a by-product from starch or glucose factorie tories use immense quantities of corn. The starch is extracted and treated so as to make either laundry starch or edible starch, or else it is converted into glucose or sugar. The residue into glucose or sugar. The residue from these factories is dried and ground into a preparation called "gluten feed." Sometimes the hull and certain other parts of the residues are not mixed with the starch residue proper. This starch residue is then ground and called "gluten meal." ground and calls "gluten meal."
Gluten meal is rly free from fibre
and should show from 33 to 36 per cent. protein. Gluten feed is likely to show anywhere from 14 to 18 per cent.

cent. protein. Gluten feed is likely to show anywher from 14 to 18 per cent. protein. It a cheap, comparatively poor feed gaside of gluten meal. Corn-bran and corn oil-cake, are other preparations from such factories. Gluten meal is one of the best feeds for dairy cows and beet production that can be found. All these feeds should, however, be bought sub-feeds should, however, be bought sub-feed should involve a very long article. It may be summed up by saying that getting fat is a habit in animals. Do not form such a habit in your dairy cows because it is milk, not fat or heavy flesh you want, from them. Do not starve heifers, keep in good condition and keep growing rapidly. Feed very heavily for four or five months before ciropping first calt.—J. H. Grisdale, Agriculturist, C. E. F., Ottawa.

### Crushed Grain-Feeding Cut Sheaves

1. Is grain that has been crushed for some time equal in feeding value to newly ground grain. Am told that when newly ground grain, and told that when become broken by the process of crushing the meal loses its strength by being in contact with the air, etc.?

2. In feeding cattle would ent out sheaf give better results than threshed out straw—with the grain crushed?

straw with the grain crushed for Grain that has been crushed for some time does not lose in feeding value appreciably. Its chemical composition remains practically the same as before crushing. These statements require qualification and modification to some script because although the to some extent, because although the chemical composition is not materially altered, the flavor of old crush-

Be up-to-date. Renew your subscription to Farm and Dairy.

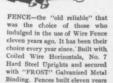
"Hitch up" to "Frost" Fence

"Tandem." It will pull Big Business your way. And you desire more money.

Every ambitious man desires to earn more money. If you are in that class, here is your golden opportunity. "Hitch Up" to the "FROST" Fence "TANDEM." It will "Pull" big sales your way.

The leading horse represents "FROST" WOVEN FENCE. The New Fence that holds the record for big sales. That created such a big sensation last year. The fence with the greatly improved and absolutely secure tie. The ONLY Woven Fence with necessary provision for expansion and contraction.

The second horse represents "FROST " FIELD ERECTED



ago are still the pride of the farm. We are largely increasing our manufacturing capacity and new

desire to "Hitch Up" to the "FROST" Fence "TANDEM" and get in line for a more permanent, larger and better local fence trade, you will have to act quickly. Good offers like this are snapped up in a hurry. Someone will be appointed to our "success-winning" Agency in your locality in a very short time. Get your letter to us by next mail. Simply say : "Send Catalog and full particulars regarding the Agency."

dealers are wanted in unrepresented

townships. Now, if you have a

FROST WIRE FENCE Co., LIMITED, Hamilton, Ont. MANITOBA FROST WIRE FENCE Co., LIMITED, Winnipeg, Man.

Frost Fence

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ad grain is not so marked nor apparently so liked by cattle as the flavor entry and the street of the animal so that the presence of newly crushed grain. Further there is danger of more or less fermentation or heating; the meal is apt to the present of the same to the street of the same to the same that the present of the same composition, results from feeding are not with this. It is promitted to the same composition, results from feeding are not with this. It is promitted to the same composition of the same composition, results from feeding are not with this. It is present the same composition of the same composition, results from feeding are not with this. It is the same composition of the same composition of the same composition of the same composition of the same composition. The same composition of the sa ed grain is not so marked nor appar-

170m is.

2. In feeding cattle cut out sheaf
is likely to give somewhat better results than threshed outs and straw.
The reasons are as follows: (1) In
harvesting for such a method of feedharvesting for such a method of feeding the outling is usually done on the early side and the straw retains a considerably greater amount of food, and is more palatable than if cut later for threshing. (2) When feeding meal and straw the feeder is not likely to feed the crushed grain in such liberal proportions as would be the case when feeding cut out sheaf. (3)

Clydesdales. It removes the character of the animal and it is very doubtful if it would prevent scratches. In fact the presence of the hair is claimfact the presence of the hair is claim-ed to be a preventive. He alotion of one cunce each of sulphest of sinc and acetate of lead mixed to since the properties of the since of the year. Dress three times apint of water. Dress three times apint of water. Dress three times apint with this. If the parts become too dry and hard dress for a few day with carbolic acid one part, seet oil 25 parts. It is good practice to purge with ten drams aloes and two, drams ginger and follow up with two ounces Fowler's solution of arsenic twice daily for a week.

# Our Legal Adviser

BACK WATER FROM DAM—A miller has a dam on a creek, which creek averages ten feet wide, and one foot deep, and flows across my farm. The dam backs the water on to me, and floods the flat between the high banks. The flat is valuated to the state of the s curices Fowler's solution of arsenic three mill and dan a substance About 29 years ago, when the mituated. About 29 years ago, when the mituated About 29 years ago, when the my takes About 29 years ago, when the mituated About 29 years ago, when the my takes about 29 years ago, when the mituated About 29 years ago, when the my takes and takes and takes ago, and and a second 29 years ago, and a second 29 years ago, and a second 29 years ago, and a

not cleared, since I becomer, about years ago, it been cleared. but been cleared. Can I hinder him from backing the water has on to my land? If so, how should I proceed? Can force him to pay rent or damages? If so, how should I proceed? — Agricola, Tehkummah Ont.

The person owning the mill is not entitled to back the water upon your land unless he has either, (1) an express grant from you or your predecessor in title giving him that privilege, or, (2) has for a period of twenty years continuously, and as of right, back-ed the water up-on the land.

From the facts stated in your enquiry, we are of opinion that he is

not entitled to in the manner spoken of, and you have a right to bring an action, asking for damages. and for an injunction to restrain him from interfering with your rights.

PAYING LOST TIME OF SURVEYOR .-PAYING LOST TIME OF SURVEYOR— Two farmers in North Hastings employ a Provincial Land Surveyor to run their lines. The surveyor loss two or three days in finding the old township line, which is almost obliterated. I Have the farmers a right to pay for this part of collect this after the town the surveyor. 2. Can the farmers collect from the town ships for the surveying of also road line? —W. R. W., Hastings Co, Ont.

-W. R. W. Hastings Co. Oat.
The farmers who employ the Provincial Land Surveyor are responsible
to him for the work which he did, and
there is no legal obligation until
the thousand the company of the company
township to pay the surveyor nor
have the farmers any claim over
have the farmers any claim over
have the would suggest an application
to the township to assist in meeting
the expense, as no doubt the services
rendered by the surveyor, will prove
useful to other ratepayers.

I am much pleased with the fountain pen I received from you for se-curing one new subscriber to Farm and Dairy.—Thomas Phelan, Blyth,

Be up-to-date. Renew your sub-scription to Farm and Dairy.



Here is use for a

There's no surer or quicker way to rid the place of rats and similar pests than to have a Stevens Rifle-always handy. A Stevens balances so perfectly that it's always steady and true to your aim. And the

# LAND for SETTLE

Lands are offered for settlement in some cases FREE, in others at 50 CENTS per acre, in various districts in NORTHERN ONTARIO.

Write for information as to terms, homestead regulations, special railway rates, etc.

THOS. SOUTHWORTH, Director of Coloni zation, Toronto

HON. JAMES S. DUFF. Minister of Agri

### DON'T FEED YOUR CALVES MILK Blatchford's Calf Meal , IS BETTER, CHEAPER, MORE HEALTHFUL

It is conceded to be the only real milk substitute It is conceded to be the only rest mak substitute in the world. Makes stronge: and healthler an-imals and sweeter, firmer, whiter real than any other known method of feeding. Prevents scouring. Costs half as much-as milk and contains no mill feed or other by-products.

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A Record Breaking Cow Sold for a Record Price

Sara Jewel Hengerveld 3rd has a record of 33.3 lbs. butter in seven days; 121.37 lbs. butter 35 days. This Holstein-Friesian cow was recently sold by Brown Broz. Lyn, Ont., to F. F. dd. Brockton, Mws., for g.2000, to h.in-tsy frice very ladf or annulan Cow. Her dam was sold the same time for \$1.500. FARM AND DARY has seen the papers confirming three sales and the prices paid.

The mixing of the grain and straw so intimately as is the case in feeding cut out sheaf insures perfect digestion of the grain, and (4) the palatability of out sheaf is greater than out straw and meal or crushed outs.—J. H. Grisendale, Agriculturist, C. E. F., Ottawa.

# **Our Veterinary Adviser**

SCRATCHES.—A Clydesdale mare has broken out with scratches on her heels. What is the best thing to do for this trouble? Would you advise clipping the long hair off her legs in the fall, in or-der to prevent this trouble?—H. C., Bruce Oo., Ont.

It is not considered good practice to clip the feathering off the legs of

FARDEL BOUND.—A cow does not eat well. She has a gaunted appearance, and for the last couple of days has been grunting in a way which makes me think she is fardel bound. What can I do to alleviate this trouble.—J. C. Middlesex Co.,

You are in all probability correct in your diagnosis. This trouble fre-quently proves fatal: Give a brisk quenty proves ratal. Give a prisk purgative of two lbs. epsom salts and one ounce ginger. Follow up with two drams nux vomica three times daily. If purgation does not occur in 36 hours give one pt. raw linseed and one pt. treacle. Repeat this dose twice one pt. treacle. Repeat this dose twice daily as long as necessary. If she will not eat anything drench her with a sufficient quantity of boiled flax seed to sustain her.

Write for Weekly Price Lists. JOHN HALLAM

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BRANTFORD, - CANADA

WINDMIL

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* HORTICULTURE

### นึงองจองจองจองจองจองจองจ British Columbia Fruit A. H. Hadwin, Duncan, B.C.

As reported in a recent issue of Farm and Dairy, British Columbia did exceedingly well at the apple show

raim and Dary, British Columbia did exceedingly well at the apple show in Spokane, securing with practically only two exhibitors, \$5,000 worth of prizes out of \$35,000, and this in the best apple section of the United States, and in competition with the States, and in competition with the Theorem of the States, and in competition with the Information of the States, and in competition with the States, and in competition with the States, and in competition with the States of Agriculture for British Columbia, a most creditable achievement especially considering the fact that the fruit was packed in Vancouver and shipped about 500 miles, whereas a large proportion of the exhibits for packing prizes were packed in Spokane itself.

### **Bark Splitting**

W. T. Macoun, Central Experimental Farm Ottawa

Bark splitting is a form of winter injury to fruit trees which usually occurs on young trees. It is due to the expansion caused by frost when the expansion caused by frost when trees are in a very succulent condi-tion. It occurs when trees have grown late in the fall and there is a sudden low drop in temperature. It will occur when trees have grown late and there is a heavy fall of snow before the ground freezes. The soft snow appears to soften the bark of the tree and when the temperature drops suddenly the moisture under or in the bark expands and loosens the bark from the trunk or kills the cambium.

In Nova Scotia, the Gravenstein and other apples are affected with what is known there as "Crown Rot," what is known there as "Crown Rot," which apparently destroys the bark about the tree near the ground. From what we can learn of this injury, which occurs mostly in well-cultivated orchards and in moist ground, we believe that the cause is that the Gravenstein grows too late and is subjected to the conditions just referred to, of being too full of sap. Traces of disease have been found at these injured parts but we believe that the disease is secondary rather than the principal cause, though we have not had an opportunity to study the injury there.

had an opportunity introduced to the trees well ripened when winter sets in, and this can be brought about, usually, by stopping cultivation in good time. When young trees are injured by bark splitting they may be saved if not too badly hart by covering the injured by the state of the wax.

### **New Brunswick Fruit Meeting**

At a recent meeting of the New Brunswick Fruit Growers' Association the president, Mr. Isaac Stephenson, of Sheffield, in his opening address, outlined the work of the association and gave much valuable advise on fruit growing with special reference to the growing of apples and shipp them direct from St. John to Englan. The revised prize list was criticised but no amendments were made. A

but no amendments were made. A committee was appointed to confer with the Nova Scotia Fruit Growers' Association with a view of establishing a uniform score card for judging ing a uniform score card for juaging fruit. Another committee was named to wait on the Government and ask for an annual grant for the associa-tion. The secretary was asked to cor-respond with barrel manufacturers and to impress upon them the necessity of improving the quality of their

sity or improving the quanty of their stock.

The subject of small fruits was discussed by Mr. W. Teed Inch. Mr. J. C. Gilman and others. The discussion was lead by Mr. W. T. Macoun and brought out many valuable points particularly in the matter of varieties of strawberries. Hardy varieties of strawberries. Hardy varieties of fruits also were discussed by Mr. Macoun. An address on "Evolution" was given by Dr. Hamilton and one on "Insects" by Mr. Wm. McIntosh, of St. John. The principal prize winners in the fruit exhibit were: J. C. Gilman, Frederiction; Norman Hallett, Daglas; J. W. Clarke, Maugerville; Isaac Stephenson, Sheffield, and S. B. Hatheway, Fredericton.

Co-operation.—At the convention of the Quebec Pomological Society, held a short time ago at the Macdonald College, Mr. Harold Jones, of Mailland, Ont., touched on co-operation. He said that this system of growing and handling fruits attracts buyers because they can get what they want. It widens the market. It brings high-er prices because complete cars can be filled at one time with the stock that the buyers want. It economizes in the buying of material for spraying, marketing, and so forth. Most important is its influence in improving the pack. Growers that pack co-operatively can pack more uniformly.

The practice of spraying does not consist of simply throwing spray materials on the trees. It does not mean spraying six or seven times a season, but means spraying correctly at the

Protect the strawberry patch with a covering of straw or strawy manure. If the winter is mild, it may mean the difference between a good crop next year and a total failure.

# FENCE TALK No. 6

The Page "Empire" Fence (White Brand)—there's a fence that outclasses them all, at every point of fence-value. It's the strongest wire-fence made on earth, and it will outlast two -yes, three-ordinary wire-fences.

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Not expensive, even though it's coated with a permanent white that defies weather and rust and makes it sightly enough for a

Decidedly not expensive, just as any Page Fence is not expensive, because the toughness of the wire, the springiness and the solid-joint lock-knot, insure that this fence will stretch tighter, stand up better, and never sag, even though but two posts are used as against three on any other fence.

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# "PAGE FENCES WEAR

# HE MOST IMPORTANT FARM MACHINE

## THE MANURE SPREADER

Are you Saving Money, or are you Losing it by being without One?

You believe that money spent for a mowing machine or a binder is well invested. Still you use these machines only a few days in the year. You use the hay rake, because it saves you time and

labor. These are valuable machines. They are now counted indispensable by most farmers, even though they stand unused over eleven months in the year.

But a manure spreader is a still more valuable machine Its purpose is to keep up the fertility of the soil. It is the nucleine you use different seasons, and the one on which the real unit of the purpose is a still more of the soil. It is the nucleine you use different machines depends.

If you have not already done so, you should consider ow the advisability of having an I. H. C. manure spreader

on your farm.

You will have choice of two different spreaders in the L.H. C. line—the Cloverleaf, endiess apron spreader, and the Corn King, return apron spereder. Each of these spreaders handles the manure in all conditions perfectly and will give you long satisfactory service.

These spreaders are not ordinary. Their frames are made of air dried wood stock. They have serviceable, tractive power producing wheels, beaters that are unsurpseed for tearing the coarsest manure into the smallest manure to the beater with the least possible friction and manure to the beater with the least possible friction and

The labor of spreading manure is greatly lessened by using one of these I. H. C. spreaders. Not only is the labor lessened, but it is changed into agreeable work.

But the strongest reason for using an I. H. C. spreader is the increased value you get out of the manure. The best authorities agree that manure spread by an I. H. C. spreader has at least double the value of manure spread.

by nand. The I. H. C. spreaders pulverize and make the manure fine, and spread it evenly over the ground just as thick pr as thin as may be required. The manure is placed upon the ground in a condition that is at once available for plant life. All is washed by the first shower into the soil—none is wavated.

soli—none is wasted.

The good effects upon the crop are immediate and the permanent benefit to the land is greater than when the manure is spread by hand. There is no question but manure is spread by the property of the p

Are you not losing money instead of saving money by eing without one?

Call on the International local agent and investigate one of these machines. He will supply you with catalogs and particulars, or if you prefer write nearest branch house. CANADIAN BRANCHES: Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Regina, Saskatoou, St. John, Winnipeg.



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# POULTRY YARD

The Problem of Incubation

of. F. C. Elford, Macdonald College, Que. Peof. F. C. Edver, Anacaonan Castop, twe.
Does the question of artificial incubation get more complex each year, or is, it the more experience one has the less he is really sure of? It is a fact that from six to ten years ago I felt I was better qualified to tell how to the control of the c Does the question of artificial incu-

chicks that require very little doctorchicks that require very little doctoring because they are not predisposed
to every ailmon that chickhood is
heir to. The young chick has enough
to battle against wind have the season of
weak constitution. When the season of
should be allowed in the breeding the
should be allowed in the breeding the
theter kill on sight and bury the
that their eggs should be used to
breed from. The secret of keeping up
the vigor of the flock depends largely
on vigorous culling out, not only one
a year but every day. A bird that has
been seriously sick, though cured,
been seriously sick, though cured,
should never be used for breeding.

BERED FROM HEALTHY STOCK

Then I could improve on the manufacturer's instructions in so many ways; now 'am inclined to think the man who made the machine should have some credit for knowing how to have some credit for knowing how to receive the solutions are solved as the solution of the solutio

industry. A flock without constitu-tion is worse than no flock at all, and no matter how good our incubators are the results will not be satisfac-

lare the results will not be satisfactory.

The selections of eggs may also affect the hatch. In picking out the eggs for selling it is well to get as uniform a lot as possible. Do not take eggs that are over large or too small, none that are peculiar in shape, in flact, take only those that are normal eggs, discarding all others. See the illustrations of sample eggs on this large.

About the incubator itself I must say only a few words. There are good and bad incubators and the best is always the cheapest. The inferior always the cheapest. The inferior machine will always be made disappointment. The good machine will always be under reasonable treatment should give fair results. Machines have not brains and should not be blamed for every failure. Give them good eggs and follow instructions accurately and a good machine will do reasonably good work.

DO NOT EXPERIMENT

We have been making a few experiments, but the work of a year or two is not sufficient to permit one to draw conclusions. I am of the opinion,

instructions accompanying the ma-chine are the best guide for the first year or two at any rate, and even then be careful about trying new ideas.

year or two at any rate, and even then be careful about trying new ideas. In operating our 20 machines last season, the ineubators that were run according to the manufacturer's directions gave a better hatch througher than the season than those that were the season through the season through the season through the season through the season through, the make that came the lowest gave 23.3, while the highest was 74.5. March gave the highest was 74.5. March gave the highest was 74.5. March gave the highest was 74.5. Warch gave the highest fertility of any month in which hatching was done. February, the lowest March, April, May and June came in order named. During these four months the average fertility was 82.2 per cent.

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DOES YOUR POULTRY PAY? If not. Poultry Pointers, the boiled down monthly iournal, help you. Best writers and to-the-point arti. Special --two years for price of one, 25 cents, silver stamps. POULTRY POINTERS, Box C, Parwell, Mi

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At Tor.nto, 1988, we won 1-1, 2nd and sth cock birds; 1st. 2nd and sth bens; 1st. 2nd, 3nd and sth bens; 1st. 2nd, 3nd and sth bens; 1st. 2nd, 3nd and sth pullets. Twenty of the standard of the standard standar JNO, PRINGLE, London, Ont.

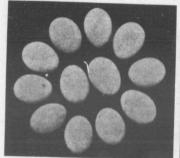
# 242 EGG STRAIN (Kulp)

Brown Leghorns from the biggest birds and biggest layers of big eggs up to 32 oz. per doz. Best business hreed in America. Hardy, hand-some and profitable: lay earliest and longest. 82.00 per 15. Circulars free.

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# SINCLE COMB BLACK MINORCAS

QEO. E. BARCLAY, Popular Hill, Ontario



Sample of Good Hatching Eggs Always select well-shaped medium sized eggs to incubate. Ill shaped eggs such as illustrated above should never be used Such will give the best results.



for a good old broody hen to have a any of the diseases he had had, good hatch and rear almost every chick good hatches are desired, be on and still the eggs be laid by unhealthy safe side and have eggs from pare and still the eggs be laid by unhealthy hens; but even such a hen is a rarity, and no incubator should be expected to hatch chicks from such eggs. There are so many things that might inter-fere and prevent a good hatch that it is not always easy to locate the exact trouble.

THE TEST OF SUCCESS

THE TEST OF SUCCESS
A good hatch does not always mean
success. The final test is in the percentage of chicks raised to a selling
age or to a healthy maturity. The
parent stock. the incubator, the
brooder, the feed, etc., must all take
their share of the responsibility. But
the man that has the constitutionally
strong healthy flock finds that under
ordinary conditions his eggs hatch
well and produce livable chicks.

Black Vatch

**Chewing Tobacco** 

The big black plug.

any of the diseases he had had. If good hatches are desired, be on the safe side and have eggs from parents that are constitutionally healthy.

Whether the winter layer will give a higher per cent, of fertility and a better hatch than the bird that is idle throughout the early winter months is a question worth considering. My experience has been that the well matured pullet that has constitution sufficient to lay without forcing during the unnatural season is the best able to produce a good chick. Last winter we found that the winter layers of both pullets and year-olds cave an average of 82.8 per cent fertility and 59.4 per cent. hatch, while the non-winter layers of both pullets and year-old gave 80.4 fertility and days 80.4 fertility and cold gave 80.4 fertility and best seasons and the safe that the productions. 59.4 per cent, hatch, while the nonwinter layers of both pullets and yearold gave 80.4 fertility and
55.8 per cent hatch. The latter chicks
not being as strong as the former. Two
years ago the fertility came out about
even, but the heavy layers gave a
larger per cent. of healthy chicks. It
might be well to add that these were
not kept in warm houses, nor forced.
The houses were cold but dry and
the hirds had plenty of fresh air and
trify. Tamen flock, 1,500 grew to maturity. Tamen flock, 1,500 grew to maturity. Tamen flock 1,500 grew to maturity was
the parent stock had for
several general to be conditions in
which they were kept.

FOUNDATION OF SUCCESS

FOUNDATION OF SUCCESS

This is the part of incubation of which we hear the least, and yet this is the foundation of the success of the

If however, that it does not pay one to spend much time in experimenting.

The practical man cannot afford the time and expense. As a rule, the



THE F. WILLIAMS CO. MORRISBURG, ONT. MADRID, N.Y.

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### Natural Hatching and Artificial moved the slanting part of the cover and replaced it with a glass sash. Brooding

The early chicken is one of the things desired by the poultryman, The problem of getting them hatched

things desired by the poultryman, the problem of getting them hatched and to the problem of getting them hatched and to the problem of getting them hatched and to the problem of getting them are pring weather than the problem of getting them are pring weather than the problem of getting them are problem of getting the getting them are problem of getting the getting them are problem of getting the getting them are problem of getting them are probl

HATCHING WITH "CLUCKERS"

MATCHING WITH CLUCKERS
With this ir mind the neighborhood
was scoured for "cluckers." Three or
four were secured that stood the
move, and settled down to incubate
from nine to 11 eggs each. I set them
in a stall that had been partitioned
off for their exclusive use. While the
hatching was ending on preparations off for their exclusive use. While the hatching was going on preparations were made to care for the chicks that were expected. These duly arrived. In the meantime I ordered a 120 chick broader for out-doors. Next I got a piwno box, laid it on its back and re-

SETTING TWO HENS AT ONCE Two hens being set at the same time, the chicks were taken from one and given to the other, the one hen being reset, and the other put in the piano case with all the chicks. The hen brooded the flock closely for sev-eral days. They were then strong and eral days. They were then strong and lively and were pu' in the brooder out doors. As fast as a hatch arrived, they were handled in this way, and the way they thrived was a surprise and delight to me. The hatching was all got over in a short time and as soon as the number of chicks were soon as the number of chicks were out that were wanted, no more eggs were set. In this way the entire flock of nearly 100 chicks were hatched inside a period of six weeks, and were thus of a very uniform age, a fact that meant a great deal when they were half grown. The big ravenous crowd would have left a small hance for little fellows to get: living amongst them.

FEEDING THE CHICKS

The chicks had food and water con-stantly before them from the day they hatched till they were n. The hopper and fountain were grown. grown. The hopper and fountain me-thods of feeding were followed. Meat meal, (dry), granulated charcoal, and grit, were also kept within reach, and were made good use of by the

This was my first experience in hatching with hens, and raising the brood with a brooder. To me it was the most successful season I had ever the most successful season I had ever had, except when engaged in the busi-ness on a larger scale. The birds were as early as could be desired, and my yard in May and June, with a uniform flock of pure bred Columbian my your milton flock of pure bred Columbian Wyandottes was a sight that arrested the attention of passers by whether interested in poultry or not.

Renew Your Subscription Now.

The Raising of Geese

W. D. Card, Northumberland Co., Ont. W. D. Card, Northumberland Co., Ont. Geese are very profitable to raise as they require but very little attention and very little fact. This is especially true of the large breeds of geese. I have been raising geese for 14 years. I started with the Brown China Geese, afterwards trying the white Toulouse variety with which I secured much better results. Not being quite satsified with these, I purchased a



A First Prize Embden

At the recent Peterboro Poultry Show. Owned by W. D. Card, of Northumberland Co., Ont. Read his article in this column on Raising Geese.

trio of the Large Embden. These latter have proved the most profitable and take less feed than if allowed to and take large.

Raising Chickens

From my own experience in the poultry business, I am of the opinion that where a person is raising less than 200 chekens, it can be done successfully by means of natural incubations.

laid eggs I set under hens, giving five eggs to each hen. The eggs must be turned twice a week. It is the third and fourth week, I sprinkle them with water. I have always secured good luck in hatching with hens when following out this practice. After they are hatched I put them in small coops where there is plenty of good green grass. I make a small run for each hen by means of three boards in which paddock the goslings are kept until they are a few days old. This precaution is necessary as the goslings do not understand the cluck of the hen as well as they do the call of the old goose.

of the hen as well as they do the call of the old goose.

I feed the goalings bread crumbs and rolled oats for about four days, after which all they require is plenty of grass. They prefer red clover and will grow faster if provided with it. If a creek is not convenient for them, provide plenty of water in a long shallow trough. They will do just as well with this latter.

Most of my zeess are said for bread.

well with this latter.

Most of my geese are sold for breeding purposes. They bring from \$4 to \$5 a pair. I pick out the poorest ones and sell them at Christmas time for from \$1.50 to \$1.75 each, after they are picked and drawn. The young geese will average about 18 lbs. in geese will average about 18 lbs. in a compared to the proper latter when the proper latter with young geese will appear latter. But my general propers and the propers are the propers and the propers are the propers and the propers are this may appear large, but my geese will weigh that about three weeks before I want to kill them. I commence will weigh that about three weeks be-fore I want to kill them. I commence to feed with mixed grains, namely peas, corn, barley, and buck-wheat. When shut up they fatten very fast and take less feed than if allowed to run at large.

# HENS LAY

DOYOUR Hens irritated by vermin and lice cannot be expected to maintain their health and become profit producers. Dirt and vermin are certain producers of disease and death in poultry pens. plete disinfecting of runs and sheds

# COOPER'S FLUID

# IS UNRIVALLED. READ WHAT MR. DURHAM SAYS

TESTIMONIAL

Messrs. Wm. Cooper & Nephews, 506-507 Manning Chambers, Toronto.

ISLINGTON, ONTARIO,

It affords me great pleasure to testify to the merits of your Cooper's Fluid as a disinfectant for poultry It affords me great pleasure to testify to the ments of your **Cooper's Fluid** as a disintectant for poultry runs and pens. For some time I was troubled with nits and lice amongst my hens, and in consequence they were off laying considerably. I was at a loss to know how to remedy this till I tried your fluid, and I was delighted with the results. After a couple of sprayings my hen house, nests, boxes, and the whole pens were absolutely clear of vermin of every kind, and the birds at once showed better condition and laying capacity.

Yours very truly,

(Sgd.) W. H. DURHAM.

ON SALE AT DRUG STORES AND SEED STORES WRITE FOR OUR BOOKLET A

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Ed., back o we are improv of the have b dry-plu poultry sell it i the dry ing, pou A gra place; t ing 75 I been dre

thin bire sending the troul Atherton.

tions.

The M Ed., Fa your enq offered by birds, se In the fir to select v During th When p where the

bird is giv for three o floor in a lowing the day is su They are their dry They are the ground sometimes and attenti ens will b their own ; turkeys a roosts are

After the they are all except in the back every bring them tion with hens. If a person is raising more, the incubator is the best solution for hatching them where they are wanted in larger numbers. We

sofution for hatching them where they are wanted in larger numbers. We raise between 100 and 200 chickens every summer, hatching them in April by means of hens. We yard our chickens and feed them by means of the hopper system. He hopper which contains a mixture the hopper which contains a mixture and the state of the contains a lift in the state of t system.

system.

As soon as the chickens are old
As soon as the chickens we put
enough and of proper size, we put
them in a fattening cop for about
two weeks. They fatten more chicken
when fed in coops. We sell our chicken
when fed in coops. We sell our chicken
ens before the cold weather comes on,
ens before the cold weather comes of
the farmer, although we keep other
kinds as well as Rocks. We take good
care of our hens and generally succare of our hens and generally succare of our hens and generally succare of our hens and generally suc-

### A Marked Improvement

Ed., Farm and Dairy;—Looking back over our past season's business we are glad to say there is a marked improvement in the general condition of the poultry we have received. We have been doing our best for some lave been doing our best for some lave been doing our best for some lave been doing our best for some the poultry received used possible to dry-plack the design we had seen to be seen to

thin birds and fatten them up before sending them to market. We might also add that if these peo-ple would only starve the birds for at least 24 hours before killing, and take the trouble to kill by bleeding at the mouth or throat, it would give them a much nicer appearance.—The Wm. Davies Co., Limited, per Jas. W. Atherton. Atherton

### The Management of Turkeys

Ed., Farm and Dairy.-Replying to Ed., Farm and Dairy.—Replying to your enquiry as to how we managed our flock of turkeys last year which won the prize of a sik umbrella offered by Flavellea Ltd., of Lindsay, for the best flock of turkeys of ever 30 the control of the control of the control that we sent to their establishment. The control of the control of the control of the to select well-be we always endeavor to select well-be man to the control of the puring the winter til we feed the hens a moderate ration so as not to unduly fatter them. unduly fatten them.

unduly fatten them.

When possible we have them lay where they are going to set and hatch their brood. When practicable each bird is given her own eggs. When the bird is given her own eggs. When the poults hatch we keep them indoors for three or four days on a dry clean floor in a well ventilated building allowing them to run out only when the day is sunny and the ground dry. They are put back, invariably, to their dry clean floor every night. They are pure very light of the provided of the pounds of the provided of the pr They are never allowed to sleep on the ground for a single night. This sometimes requires unremitting care and attention. In a few weeks the old hens will be so trained as to return of their own accord to their accustomed place of shelter. As soon as the young turkeys are old enough, suitable roosts are fixed for them in this shelter.

shelter.

After the poults are two weeks old they are allowed to run out at will, except in the rain. They must come back every evening, otherwise we bring them in. They are allowed to

roost out in mid-summer, but they must roost in the yard. When the nights get cold in the fall, we bring them under well ventilated shelter to

The young turkeys are fed bread soaked in sweet milk at the start gradually changing them on to station of small wheat, after which the ration of small wheat, after which the properties on more soft feed nor roots, but you may be a liberal supply of small rich grain. We continue feeding soms grain all through the season, then it requires no extra feed to finish them. Clean water is furnished them at all times.

The worst thing we have to contend with in raising turkeys is the foxes. We have lost more through their depredations than from all other causes.—M. D. Sullivan, Peterboro

# Trap Nest For Farmers' Use

F. C. Elford, Macdonald College, Qu The chief difficulty to installing the The chief difficulty to installing the individual trap nest is the labor it involves. On this account, those who do not apecialize in poult, the second to the first to think the results do not expected to think the results do not compete the section when the second the second the second the solpection, some of which may be good. We had what we called a "combination" that gave fairly good results last summer. The nest, or the

FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

combination of nests, are so arranged that a visit twice a day is all that is hencessary. Figure 1 shows the front of this.

The combination of trap nets are The combination of trap nests are coming out. When she has isld, the

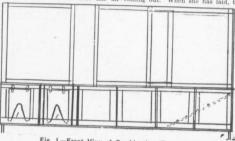


Fig. I.-Front View of Combination Trap Nest

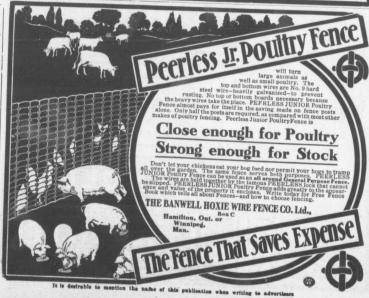
opening about nine inches square that only way out is along the passage way leads into a box 12 inches square and at the back and seeing daylight up the 18 inches deep. At the back of these, stairway, she walks up and finds herthere is an alley about ten inches self in a pleasant wire cage, the full

Is menes deep. At the back of these, there is an alley about ten inches wide running along the full length, six ft. At one end there is a small gangway or staircase leading to the

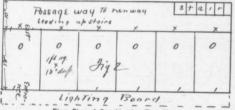


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1-P — OMAHA, NEB. NORTHWESTERN SCHOOL OF TAXIDERMY - BOX 461-P



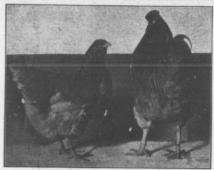
the nests and find their way to the cage upstairs. At noon and at night the attendant takes out the hens and takes their numbers registering them on the eggs loud in the nests below. The large rectangular spaces in figure 1 show the construction of the cage above, and three shiding doors for convenience in liberating the nen.. There are two main objections to this trap: An individual record cannot be kept of eggs laid, that is it cannot be kept of eggs laid, the laid of eggs laid.



Floor Plan of Combination Trap Nest 1.—Entrance when the trap is arranged. o.—When the egg is laid. x.—When the hen passes to the passage.

x—when the hen passes to the passage.

The other is, in case there are more beens in the cage than eggs in the sum of the constant of the cons



"I Don't Care What You Say, You Horrid Old Rooster! I Did Lay Two Eggs Yesterday!"

ally winter 100 pullets and never keep ally winter 100 pullets and never keep, them over the second winter. As soon as the hatching season is over, I box them up in June and July and ship them to Toronto where I get from 16c to 17c a lb. for them. It does not pay to winter hens. When shipped these pullets are still laying. However, I am through with them so I get rid of them at a good price and make room for younger stock.

## Care of Brooding Chicks

Harry Lush, Peterboro Co., On

Brooders should be gotten out early and thoroughly cleaned and aired. A good coat of whitewash to which has been added considerable coal oil should be then applied. When dry set

your brooder where it will get all the Get your lanmp cleaned, see that it does not leak. The brooder should be Coes not leak. In brooder should be hated and running well three or four hours before the chicks are put into it, so as to get it properly heated. A good coating of coarse sand (not gravel or sawdust) should be placed on the floor.

on the floor.

When placing the enicles in the brooder if you have 60 chickens an also have two brooders put 30 chickes into each brooder instead of crowding all into one. You say my brooder is a 100-chick size. All well and good, just put 30 in anyway and see them come along. The 30 will beat the 100 in a 100-chick brooder-4ry it the first opportunity you get. The 30 chicks



# MAKES CHICKS

Experiments by Prof. W. R. Graham at the Ontario Agricultural College have proven without a doubt, that when Zenoleum is used to moisten the inside of an incubator the hatch is greatly increased. You need to use some

### 45 AGRICULTURAL COLLEGES RECOMMEND ZENOLEUM

and thousands of poultrymen everywhere are using it daily— have here for years. Any dealer can supply you—or we will. Our free book "Zenoleum Chicken Chat" will tell you more. Write for it. DIT MAY SAVE YOU MANY DOLLARS.



# INCREASES "LIVABILITY" of INCUBATOR CHICKS

SEND FOR FREE BOOK "CHICKEN CHAT

THE ZENNER DISINFECTANT CO., MAKERS, 118 SANDWICH STREET, WINDSOR, ONT.

# 1200 ONTARIO DEALERS ARE SELLING ZENOLEUM

YOU CAN GET ZENOLEUM ANYWHERE IN CANADA

RICE 25CENT THE ZENNER DISINFECTANT CO., WINDSOR, ONT



# Filth Brings

cle quart will rid 100 hens of all lites, fleas, etc. Spraying roosts ouses once in 30 days will keep clean and insure perfect health "The Great Coal Tar Carbolic Disinfectant Dip."



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night. to stay to roun the run

Editor keys, w group o kept thi and fine After leave th then we feed mix

don't crowd one another to death and besides they have room to grow. Your chicks are old enough to feed when from 36 to 48 hours old. Give them a little fine chick grit to pick—something to grind the food that follows. A little pin head oatmeal or millet is best at first. Don't give sloppy food to chicks. At the end of a week or more chicks at the end of a week or more chicks at the end of a week or more supply to the control of the cont

in running a brooder. Ist. Always keep the brooder clean and well ventilated. 2nd. On a bright sunny day the temperature climbs up very fast, regulate it accordingly or dead chicks will certainly follow. 3rd. Never forget to see that the lamp has enough oil and is clean. 4th. It is a good plan to have a thermometer set in the top of the hover in a manner to register the degree of heat on the inside of hover. Sht. After the first week, except in extremely cold weather, the heat may be gradually reduced. 6th. Sometimes after one has cut off the heat allogether it is a good plan, on a very cold night, to scart the lamp again. 7th. Lots of clean water and clean litter which is positively dry; sometimes the water gets slopped over the sand; mucky enicks will not large. The must be kent dry and.

clean litter which is positively dry; sometimes the water gets slopped over the sand; mucky enicks will not thrive. They must be kept dry and clean. An old fashioned coffee mill makes a splendid thing to crack what for brooder chicks.

While your chickens are coming on you must remember they can't stay in the brooder all summer. Be sides there may be another hatch coming off in a few weeks. It would be a good time to make a house. A large matched lumber packing box—one that is sound and free from air holes answers well. Build a sound tight roof on it. Put in a door with a light of glass. When-such a house is set up off the ground, say six inches, it makes a fine place for chicks to run

don't crowd one another to death and try Food in it. As soon as the tur-

try Food in it. As soon as the turkeys get good and strong, I leave them to themselves and they are allowed to ramble where they please. They are given very little feed from the strength of boro Co., Ont.

A Satisfactory Poultry House

Bartow Cumberiand, Durham Co., Got.
Before building my poultry house
I had visited the Government Poultry
plants at Ottawa and Guelph, and corresponded with many poultrymen in
order to find out what would be a
practical and yet not an over expensive poultry house. After gathering
all the information possible, I built
my poultry house and I think I have
got a good one. It has worked out to
my complete satisfaction. The house
is after all only a compon shed with my complete satisfaction. The house is after all only a common shed with properly placed windows and doors in front, and the little loft above. Any farmer of fair means could have one similar to mine and his women folks would then attend their poultry in comfort. comfort.

would then attend their powers to comfort.

My poultry house as shown in the illustration on this page, is 50 x 16 ft. It faces the south. It contains four pens 12 x 13 and a three-ft, continuous passage along the north side. A small feed lean-to is located at the east end, The building is single sheeted with plain undressed lumber with two-inch battens. The roof is shingled. The floor is raised one and one-half feet above the surrounding level by means of broken stone and gravel on which so hove the surrounding level by means of broken stone and gravel on the side of the stone of all futer is taken off and renewed each summer.



A "Cold" Poultry House That Has Given Complete Satisfaction The four-colony poultry house pictured above, has a capacity of 100 hens. It is imple, inexpensive, and conveniently arranged. Read the adjoining descripton of

Raising of Turkeys

Editor, Farm and Dairy:—The turkeys, with which we won the reward of a silver-plated tea pot offered by Flavelles, Lid, of Lindsay, for the best group of dressed turkeys, were of the Mammoth Bronse variety. We have kept this breed for a number of years and find them the most satisfactory.

After the turkeys are hatched, we leave them for 24 hours without food in on five sides and have a canvas front to let down at night, then we begin to feed them with soft is two feet above the floor of the pen, feed mixing a little of Dr. Hess' Poultus giving the whole interior to the

under. It is, however, a nuisance at night, as they will run under and try to stay there. The attendant will have to round then up every night till two have been properly educated to go up the runway.

Raising of Turkeys

Rising of Turkeys

River and Dairy—The turkeys, with which we won the reward of a silver-plated tea pot offered by flavelles, Ltd. of Lindsay, for the best groun of drawsed turkeys, were of the lower than the proposed to the state of the weather. They have half wire fronts on which cotton is tacked in winter. The cotton being fastened on the proposed turkeys, were of the best groun of drawsed turkeys, were of the lower than the proposed to the state of the weather. They have half wire fronts on which the top door at the end. This gives ventilation and absorbs all moisture. The doors of the pens are made in half to be used according to the state of the weather. They have half wire fronts on which the proposed the proposed to the pr

# Made In Canada For 24 Years

Some Metal Shingles are guaranteed to "last a life-" by firms which have been making Metal Goods only a few years.

How can they know how long their shingles will wear ?

"Perhaps" such shingles will last.

"Perhaps" they are lightning-proof and weather-

You are the one who must take the chances.

There are no "perhaps" about



# "EASTLAKE" METALLIC SHINGLES

ON THE ROOFS SINCE 1885

They have defied lightning and fire—resisted snow and rain—protected against leaks and rust—for 24 years. You buy c rtainty-not supposition-when you buy "Eastlake" Shingles. Because "Eastlake" Metallic Shingles have proved, by 24 years' wear on the roofs, that they are practically indestructible.

Don't buy "a pig in a poke." Don't take chances. et "Eastlake" shingles, which are sold with a guarantee worth having.

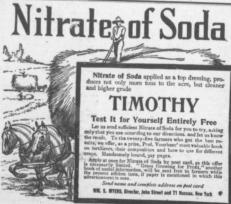
Write for catalogue, which tells about the "Eastlake" side Lock, the new Cleat and other exclusive features, as well as explaining all about the Shingles themselves

### The Metallic Roofing Co., Limited TORONTO Manufacturers WINNIPEG

Agents wanted in some districts. Write for particulars naming this paper.

chickens for scratching space.

The building is a "cold" house; it contains no system of heating. We have never had a comb touched with frost. The birds have had no colds, no lice, and the hens lay from November on, depending upon the time that they were hatched in spring. The cost of the building was \$210.00. It carries 100 hens, is simple in construc-



# FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.



PARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Quebec Dairymen's Associations, and of the Canadian Hoistein, Ayrshire, and Jer-sey Cattle Breeders' Associations.

2. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.20 a year, for all countries, except Canada and Great Britain, add 50c, for postage. A year's subscription free for a club of two new subscribers.

3. REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at the banks.

4. CHANGE OF ADDRESS — When a change of address is ordered, both the old and new addresses must be given.

S. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

### CIRCULATION STATEMENT

The paid-ndvance subscriptions to Farks and Datry excided 5.00. The actual of the paper sent subscribers who are but slightly in arrears, and sample copies, writes from 5.00 copies, writes from 5.00 copies, writes from 5.00 copies, writes from 5.00 copies, to the subscriptions are accepted at less than the full subscription rates. Thus our mailing lists do not Sworn detailed statements of the circumstance.

Sworn detailed statements of the ciration of the paper, showing its distribution by countries and provinces, will nailed free on request.

### OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY
We want to readers of Farm and
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### FARM AND DAIRY PETERBORO, ONT.

TORONTO OFFICE: Room 306 Manning Chambers, 72 Queen St., West, Toronto.

SPECIAL ISSUES FOR OUR READERS With this issue we present our special poultry number. At certain seasons, we find a greater demand from our readers for information along special lines than it is possible for us to publish in our regular issues. We have arranged, therefore, to publish eight special magazine numbers of Farm and Dairy during 1909. This week's issue is the first of these numbers. Over ninety per cent. of our readers keep poultry, and we hope that they will enjoy the extra attention that we have given this week to seasonable articles relating to the busy ben.

lustrations and diagrams for farms and gardens, fruit and eggs in winter. vegetable growing, pruning, spraying and other subjects of a like It will be followed by nature. our Dairy number on April 8th, Farm Improvement number, May 3rd, Farm Machinery number, June 3rd, Exhibition number, September 2nd, Household number, October 7th, and Breeders' number on November 4th. All these issues will be enlarged in size. They will be gotten out with colored covers and they will contain illustrations and articles having a direct bearing on the special subject named for each issue.

. Although these eight special magazine numbers will entail much additional expense on our part. Farm and Dairy, including these enlarged magazine numbers, will go to our subscribers for the same old price-only \$1.00 a year. That this idea of magazine numbers is a popular one, and that it is appreciated, by our advertisers, is proved by the fact that already advertisers have contracted for many of the important positions in these ismonths ahead. Advertisers wishing bers should write us now in order that space may be reserved for them.

### STUDY THE POULTRY

Vexatious indeed is the hen that will not lay. Many flocks this winter have not yielded an egg to go towards lose no opportunity to complain about their hens, and all that pertains to the poultry industry.

To gather eggs when they are high in price is a pleasure that to many is denied. If we fail to do this does not the fault lie largely with ourselves? Do we give our flock the study, the consideration and the food and housing that is their right? Many of us. in all probability, have done the best we knew how, but our efforts have been of little or no avail.

While stopping at a farm recently an editorial representative of Farm and Dairy paid a visit in the early morning to the hen-house as the attendant went to feed the poultry. The subject of winter eggs had been well cared for. The building was a 70 fowl. It was closely sealed to protect it from the frost. Dampness in the building was perceptible. atmosphere was close and ill-smelling.

largely being wasted. Had a cheaper chance for winter egg production. Suitable housing is the one factor to Our Garden and Orchard number free from draughts, and one in which

that these desirable conditions prevail, it by the healthy growth which she is will deal with tree planting, seeds is a much simpler matter to get experiencing and her unbounded re-

### GOOD COWS IN B. C.

The summary of the results from the herd of Halliday Bros., of Sandwick, B. C., given on another page should be interesting to the dairymen prove an incentive to those, who have not already done so, to introduce on their farms, some system of testing their cows individually.

The keeping of cows should be taken more seriously by our dairymen. Our cows could, and should, be made to produce larger returns for the laborand feed that are expended on them. We must not let the Danes continue to beat us in the production of milk by several thousand pounds of milk a cow a year.

### THE DEADLY LEVEL CROSSINGS

The announcement made recently. sues. Our front inside cover and our frame a policy for the adequate pro- try industry, are not, as a rule, the back outside cover have been sold for tection of level crossings, is welcome kind we want in the poultry business. news. The Board has been asked to special space in these magazine num- make a thorough investigation of the intelligence to mix with the food they crossings. As soon as full informa-thing easier. tion is received the Board will take action to remove, as far as possible. crossings.

danger of level crossings to life and limb has been amply attested in the past. It is well that, at last, action is to be taken to remove, as far as the lives of so many farmers and others in the past. The recent accident at Kingston, where a farmer and his son were instantly killed, another instance of the toll exacted by the deadly level crossing.

### FINANCIAL INSTITUTIONS AND THE FARMER

The general depression of a year ago, is now largely a matter of history. The period of prosperity which Canada enjoyed until about a year discussed previously, and the usual ago, led to extensive, and in some information was given that the hens cases unwise expansion, on the part were not laying though they were of many capitalists and business men. The resources of all financial institustone one, and contained some 60 or tions were taxed to the limit of their capacity. The depression that followed, resulted in the withdrawal of The capital from business undertakings. and a subsequent increase in the Under such conditions, the feed was amount of comparatively idle money. Owing to this fact, last year was not building and some ventilation been favorable to financial operations. It the food at first hand and feed it provided, there would have been some is interesting to note, therefore, that which we may attribute a large measure of the secret of getting eggs in page, experienced very satisfactory rewinter. The hen house must be dry, sults from the business of the year.

sources, both of which tend to give her great recuperative powers.

To the large yield of grain and other crops, throughout the Dominion in 1908, can be attributed the fact that the wave of depression is lifting. We have commenced the new year of the Eastern Provinces. It should with a general return of normal conditions. The financial institutions, as may be concluded from the report of the Traders Bank, look on the farmers as the foundation of prosperity. We find them vitally interested, not only in the returns of the past year, but in the probable crop returns of the future. Yea, upon the farmer depends the prosperity of our country.

### **OUR POULTRY INDUSTRY**

There is money in poultry. What we need to learn is how to get it out. Poultry keeping is a science. It demands thought and study. The time has passed when any person could that at the request of the Minister of raise poultry. People who fail to Railways, the Board of Dominion make a success of the business they Railway Comissioners will try to are in, and then embark in the poul-

Those not having common sense and problem. Inspectors are to be sent out give their poultry, had better stay out to make a report on all dangerous of the business and undertake some-

An unique feature of our present day market for poultry, is the fact the danger connected with these that though our exports of poultry products have fallen off, we are getting This action is largely the result of increased prices for our increased propaying for their keep. Their owners the recent tragedy at Grimsby. The duction. The decline in our poultry exports has not been due to a lessened demand on the part of English consumers. Our eggs and poultry, of first quality, were never in greater repossible, this peril which has taken quest or in better repute than now. In spite of increased home production and decreased exports, we have increased prices. This is something to be proud of. We have produced the and his wife terribly injured, is but poultry, and produced it so well, that it has been sold in our own country and, therefore, we have a lessened quantity to send abroad.

Consumers of eggs and poultry must look to the farmers of the Dominion to produce it. The farmers must furnish the foundation for our poultry industry. Poultry specialists, often, have not proved successful. Some specialists have put \$3,000, \$4,-000 and even \$6,000 in poultry plants, and have practically lost it all. When we consider how, and and under what considerations, these plants were started, it is little wonder that they failed. There may be a place for the specialist, but it is to the farmer we must look for the future of the poultry industry.

We as farmers are peculiarly adapted to the poultry industry. We grow without other people having profits banks, such, for instance, as The thereon. A great deal may also be Traders Bank of Canada, as will be fed that would otherwise go to waste

The bane of the poultry business on our average farm has been that the The trade depression probably af- hen is honest enough-with some exwill appear on March 4th. It will be there is no smell of hens. Such a fected Canada Jess than almost any ceptions—to pay for her keep, even replete with special articles, il-house need not be expensive. Where other country. This is accounted for when neglected. She, therefore, has

been ne stock y ment in poultry. the poul

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been neglected. No branch of live stock yields so readily to improvement in increased production, as does poultry. Realizing this, let us make the poultry the best paying branch on our farms

The machinery for successful poultry raising is already installed on most farms. There are but few of us that have no hens and some place to shelter them. In some cases a slight expenditure would bring the poultry department up-to-date. Give the fowls the care and attention that they merit, and that other live stock on our farms receive, and the faithful hen will do her part in providing us with eggs and poultry in abundance for the table and for sale.

### SHORT COURSE IN AGRICULTURE

Those of our readers who are in close enough proximity to one of the short courses in seed and stock judging, conducted by one of the district representatives of the Department of Agriculture, should avail themselves of the opportunity of attending. It is not enough to attend this course oneself. If there is a boy on the farm get him in touch with one of these short courses

If a boy is going to stay on the farm, he should have as good a chance as the boy who is leaving. Preparation for work always pays. A short course in agriculture at an Agricultural Collegiate Institute, is intended to suit the boy who is staying on the farm. Give that boy a chance. That "the boy is the father of the man," has been truly said. As he is to be the farmer of the future, prepare him for his work.

One of the most gratifying results of the establishment of Farm and Dairy, has been the increased attention given to dairy news by other farm papers. One agricultural paper in Western Ontario, that the horse and beef cattle breeders have long considered to be their special champion and advocate, must have given this influential portion of its readers a bad jolt when it went so far in a recent issue, as to claim that is was "The Dairymen's Paper." How gratified the dairymen must be to learn that that paper now recognizes the importance of the dairy interests and that, therefore, it wants henceforth to be known as "The Dairymen's Paper." From now on we will expect this paper to put its dairy department to the front, to feature its dairy news, and to relegate its horse, beef cattle, farm and live stock departments to the unimportant position in its back pages that hitherto has been occupied by its dairy news. Nothing else will satisfy the dairyman.

Should you fail to receive your copy of Farm and Dairy notify us at once to that effect. We have no means of rectifying errors of this kind unless notified.

Renew Your Subscription Now.

## Poultry Diseases at a Glance

The following hints will, perhaps, help in the prompt detection of the difficulty or disease which may be troubling a fow!

Administering Medicine.—Too often is a profitiess expense. Avoid the necessity for it by maintaining the healthiness of the flock.

Adominal Dropsy.—Abdomen distanced with flouid, hangs down, Fow! loses appetite, becomes weak and pale.

pale.

Anaemia.—Poor blood or poverty of blood from lack of proper nourishment, pure air, and sunshine.

Apoplexy.—Bursting of blood-vessel in the brain prostrates the bird;

omb purple.

Asthenia.—"Going light," due to starving, digestive disorder, vermin, blood poison.

blood poison.

Atrophy of Liver.—Stupor and possibly convulsions, may indicate wasting of the liver, induced by lack of exercise, over-feeding, and unbalanced

rations.

Breakdown.—Abdomen hangs down at rear from excess of fat, fatty degeneration, or disorder of the oviduet. Broken Bones.—Unless the fowl is very valuable treatment is avoided by killing for the table.

Bronchitis.—Cold or estarth may lead to inflammation of the throat, whistling or rattling breath due to exposure to cold, foul air, draughts, irritating dust.

exposure to cold, foul air, draughts, irritating dust.

Bumble-foot.—Cushion of the foot has a corn with absenss. Joints of leg may also be affected. Usual cause, narrow perches, alighting on hard floor from high perches, embedding of pebble in sole of foot.

Canker.—Painful attempts at swallowing, white, grey, or yellow patches develop on the membrane llning the develop on the membrane llning the amount or throat. Due to colds, estarth, roup, exposure to cold damp-ness, draughts, foulness.

Catarrh.—A common cold may c tinue until breathing is hindered inflammation and mucous secretion collected in nostrils and mouth. There is drowsiness, loss of appetite, ruffled feathers, wheezing.

### Surprising Results

The replies we have received from our half-inch advertise-ment of calf feed in Farm and Dairy have surprised us. They Dairy have surprised us. They have been received from the Maritime Provinces and Mantion received from the Provinces and Mantion received from the Parm and Dairy and indicate that the advertising columns of the paper must be closely read when such a small advertisement brings such a numerous response.—White & Gillespie Paterhoro. Out. response.-Whi Peterboro, Ont.

Chicken Pox.—Yellowish pimples on the head and underside of wings, loss of sight, weakness, paleness. Choking.—Shaking of the head, straining and jerking of the neck in trying to swallow Chicken Pox.-Yellowish

trying to swallow. Cholera.—Diarrhœa. with trying to swallow. Cholera—Diarrheea. with yellow discharges, rough plumage, dropping wings, contracted neck, great thirst, pale comb, exhaustion; centagious. Coldas.—Inflammation of the nostrils and throat from eatching cold is ahown by ancezing and running at the nostrils, due to exposure to chilling temperature, dampness, draughts. Congestion of the Liver.—Over-fatness and sluggishness sometimes accompany congestion of the liver, due to over-feeding, starchy rations, lack of exercise, and digestive disorders. Congestion of the Langas—Over-charging the blood vessels of the chilling, and the control of the chilling fowls. In young chicks or moulting fowls. In young chicks or moulting fowls. Labored respiration, stupe, and purple color of comb and wattles.

Constipation.—Stoppage of the bow.

# All Right Ahead?

The milk flow will soon be on. When it comes, are you ready for it, and so that there will be no loss of time, butter fat, or patience? The blarney of cheap cream separator advertising is cold comfort when

Use the DeLaval Cream Separator

you need performance and not promises.

and you won't have to take the milk over to the neighbours to separate it.

Durable

**Efficient** 

**Easy Running** 

DE LAVAL SEPARATOR 173-177 William St.

WINNIPEG

MONTREAL

VANCOUVER

els or clogging of the vent may result from digestive disorders, due often-times to lack of green food and fail-ure to exercise.

ure to exercise.

Consumption.—Wasting and weakening of the body may be accompanied by feetid diarrhea. The breathing may be somewhat rasping, and
there is paleness of the comb and

Corns.—Hardened and thickened cuticle of the sole of the foot, due to narrow perches, alighting from high perches on hard floor, pressure of embedded robbled

perenes on hard hoor, pressure of em-bedded pebble. Crop-bound.—Impaction and en-largement of the crop from gorging or

toppage. epraved Appetite.-Gorging with food, or swallowing substance unsuitable to the digestive tract, causing indigestion or stoppage. May result digestion or stoppage. from lack of grit.

Diarrhœa.-Looseness of the bowels, aused by sudden chilling or digestive

Diphtheria.—See roup.

disorders.

Diphtheria.—See roup.
Dysentery.—Excessive and persistent diarrhoa, due usually to fitthy food or drink or foul conditions.

Excema.—White pimples show on wattles, increase in size, run together, discharge, and become crusted.

Enteritis.—Inflamed condition of the mucous lining of the stomach and intestines, resulting from acute diarrhoa, and caused by poison, internal parasites, over-eating, fermented food, condiments, filthy drinking water, especially liable to attack growing ethickens and moulting fowls.

Eversion.—Protrusion of the inflamed ovidued from the vent may result from straining in laying an egg which is malformed, extra large, or broken within the oviduet or cloaca.—F. C. E.



# ROOFING

Nothing under the sun has to stand such severe tests as a roofing. There-fore, you should look for quality and

F. W. BIRD & SON, Dept. 121 Hamilton, Ont.

Branch Office

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# way. **Creamery Department** \$

land gives instances where such butter has been kept in cold storage for two years but no "fishy" has developed. He claims that the birth-place of fishy taste germs is in the creamery churn. A new churn has been known to cure the "fishy" trouble for a sea-son. One of the causes is the churn son. One of the causes is the churn to cure the "fishy" troubs not a sesson. One of the causes is the chum getting water-logged by keeping water in it over night. This is done to save time. This authority claims that he has known "fishy" flavor to develop in ten days in the finest-textured butter from this cause. The yellow soum in the out-of-the-way corners of the churn develops the "fishy" flavor, the germs of which will resist a temperature of 20 F.

If this authority is correct in his perature of 220 F.

If this authority is correct in his assertions, then butter-makers should look to their churns and have them thoroughly cleaned and dried after

# Whey Butter in Eastern Ontario

churning

Considerable whey butter is being made in factories in Eastern Ontario. The proprietors of the factories the makers, and the patrons have different agreements as to the basis upon which the butter is made. In the E. W. No. 16 factory, at Kemmore, the proprietor, Mr. Eager, has made whey butter this year in an experimental

way. He arranged with the patrons to equip the factory fer the manufac-ture of the butter at his own expense, with the understanding that he would

Batter Makers are invited to send contribumatters relating to butter to ake questions on
matters relating to butter to ake questions on
the sense of the control of the sense of the control of the sense of the control of the sense of the se

Mr. J. D. McPhail, of Russell, Ont. Mr. J. D. McPhail, of Russell, Unt., the owner of some ten factories, has tried the manufacture of whey-butter this season in three of his factories. Two of the factories were equipped with the necessary machinery and the third was furnished with an auxiliary equipment. Our representative, while in Dundas county was informed by a head. entative, while in Dundas county recently, was informed by a leading dairyman that the results obtained up to that time in the manufacture of whey butter indicated that it was practical and profitable in large factories, but not in small factories where the amount of milk handled would not warrant the cost of securing the necessary equipment.

### Harwood (Ont.) Creamery

At the annual meeting of the Har-wood, Ont.. creamery the report of the secretary treasurer was as follows: 159.329

| Total lbs. butter made<br>Total cash received<br>Total expense for manufac- | \$15,277.71             |
|---|-------------------------|
| turing. Total amount paid patrons Average net price for butter              | 2,467.92<br>\$12.809.69 |
| fat,  | 26.46                   |
| butter fat,   | 1.20                    |

### Russia's Butter Exports

Russia's Butter Exports

The rapid increase in the export butter trade of Russia is simply marvellous. The lately published official reports of that country show that the value of its butter exports for the vea. 1907 amounted to rather more than 47,000,000 roubles as compared than 47,000,000 roubles as compared than 47,000,000 roubles in 1898. Butter now holds the fifth 1898. Butter now holds the fifth 1898 in 1898. Butter conduction of butter in Siberia is increasing at a remarkable ratio and is bound to become a still greater competition with Canada for the British bound to become a still greater competition with Canada for the British trade during the summer and fall months of the coming years. The great increase in the population of the Dominion, however, will, no doubt, absorb a much larger portion of our make every year, so that as our exports diminish, the home market will-rery dependent upon the foreign market for disposition.—Trade Bulletin.

Pay by the Test .- Dairy Instructor R. W. Ward has been urging the pat-rons of the cheese factories through-out the Peterborough district to pay for their milk by the test instead of by weight. He claims that every cheese factory should pay for milk by the test. Those factories in his section which adopted the principle of paying by test some years ago, are 29.54 continuing it as they have found that 53,932.10 it is the only right and fair way.

### New Warerooms at Winnipeg

The Sharpless Separator Co., in re-The Sharpless Separator Co., in re-sponse to urgent requests from their many local agents in the West, have recently opened offices and warerooms in the McRae Block. corner of King and James Streets, Winnipeg. A full line of Sharpless Tubular Cream Separators will be kept in stock at the new quarters, which are commedious and situated in the heart of the business section of Winnipeg. The expenditure of a good deal of money has been incurred in fitting up money has been incurred in fitting up the new offices and warerooms so as to make the new establishment conform to the high standard of Sharpless ideals, and the many dealers in the Prairie Provinces who are handling the Tubular, as well as those who are not, are inv 'ed to call whenever they have occasion to visit Winnipeg, the by have occasion to visit Winnipes. The rapidly increasing popularity of this line of Separators throughout Western Canada has really made this additional office almost a necessity, and needless to say the transaction of business in Western Canada will, be enormously accelerated as the result of the opening of this new and thoroughly up-to-date establishment in the Western metropolis.

Mr. L. D. Logan, who has acted as Assistant manager of the chief offices at Toronto, where the Canadian factory is located, for the past four years is in charge of the new branch, and this fact offers a sufficient guarantee that the best interests of the dealer will at all times be considered para-

that the best interests of the dealer will at all times be considered para-mount. Before coming to Canada, Mr. Loran was associated with the Chicago offices of the Sharpless Separator Co. for several vears, and his long experi-ence in this line renders him well fitted for the discharge of his new fitted for the discharge of his new

Renew Your Subscription Now.

# The Sign of Quality





The Sign of Satisfaction

UALITY has made the Sharples Separator Works the largest factory of its kind in the world. Quality has made the sale of Tubular cream separators greater than that of any other separa-Quality will be found in every part of Tubular Separators and will place Tubular cream separators still farther in the lead.

We wish every Dairyman who reads this could come to our factory and see for himself the difference between Tubular separators and other separators, thousands of which come to us every year in exchange. We would like to demonstrate to every dairyman the many points of superiority in Tubular separators, a few of which we mention below:



Tubular gears run in a mist of oil.

A spoonful of oil, once or twice
a week, is all it needs.

Perfection in skimming.

Extreme simplicity of construction, Remarkable ease of cleaning. Most convenient oiling arrangement, Low, convenient milk supply tank,

Freedom from complicated bowl parts, And twenty other especially desirable features.

Our free catalog No. 253 will tell you all about it. Ask for it.

# The Sharples Separator Company,

Toronto, Canada.

Winnipeg, Canada.





THE ST

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# Responsibility of the Maker

Kesponsibility of the Maker

"Remember this is cheese makers'
day and you have the privilege of firing all the questions you like at Mr.
Barr and af. Publow," said the chairman at a recent meeting of Dairymen at Prescott after these gentlemen had delivered their addresses.
"We wil. Ke." them here on the platform so that you can ask them for
any information you desire." The
following are some of the more important questions and their answers: ant questions and their answers:

ant questions and their answers:

A Member.—Has there not been more gasy curds this year than usual?

Mr. Publow.—No, we have had less gasy curds this year than we ever had, generally speaking; the main difference was the flavor, we had more objectionable flavor.

objectionable flavor, we had more objectionable flavor.

Q.—What size factory would you advocate to equip for the manufacture of cheese and butter?

A.-I would not advise the manufacturer to put in such an equipment, unless he had 10,000 pounds of milk

unless he had 10,000 pounds or mina a day.

Q.—Have you made any experiments of the sediment at the bottom of the whey to ascertain the amount of butter fat the sediment holds?

A.—No, I sent a sample to Kingston and found rough of the whey to ascertain the amount of caser in the whey.

Mr. Publow.—I might say that the average loss in Eastern Outario is 22.

and June.

Mr. Publow.—If the milk is delivered in a good condition, cool and sweet milk, it would never pay to skim the whey. We had a number of factories that only had a loss of 16.

A Member,—There are a lot of them attain great ability in getting fat out of the whey. (Laughter).

Another Member,—Don't you think a strain great ability in getting fat out of the whey. (Laughter).

Another Member,—Don't you think a strain great strain great deal of fat by careless handling?

Mr. Publow.—I think if you have large losses in the fat, you will also have large losses in the caseim. When you have sediment of fat in the can it is due to one of two causes; you have lots of casein or you are running out curds in your strainer. Your milk was working fast and the only way for you to do, would have been for you to have knocked it about and give it rosses handling. There is a greater you to do, would have been for you to have knocked it about and give it rosses handling. There is a greater you to do, would have been for you to have knocked it about and give it rosses handling. There is a greater you to do, would have been for you to have knocked it about and give it rosses handling. There is a greater you to do, would have been for you to have large handling. There is a greater when the property of the in Onitario, than there was in May and June of last year. Take the Campbellford district, a few years ago they were noted for acidy choese of poor quality, and last season during the worst part of the season, I inspected nearly every factory in the district, and with the exception of two factories, no man could point to any fault with the goods, the people in that district were simply sending milk in good condition.

Cheese Department

Makers are invited to, send contributions to the months of September and October, we had a very warm fall, and the loss liet for discussion. After the suggest substitute to the support substitute to the individual effort of the support substitute and the substitute to the individual effort of the substitute of the substitute and the substitute to the individual effort of the substitute of the substit it is due to the individual effort of the people themselves, and I would say right here that the makers of this right here that the makers of this country can do a great deal more than the man in change. There is a lot in the man in change the properties of the factory. It is not because the favory is small, you can make just as go to can just as go to

### Put the "Ban" on Soaked Curd Cheese

The United States Board of Food The United States Board of Food and Drug inspection is getting after the makers of "soaked curd" cheese. This is made by soaking the curd at a certain stage in the process, in cold water. After draining, the curd is then salted and put to press. This treatment is claimed to be fraudulent.

treatment is claimed to be fraudulent. It introduces an undue amount of water in the cheese, thus increasing the weight. It gives a soft texture and an appearance of superior quality which deceives the purchaser as to its real nature. Less of the desirable cheese flavor is developed and it deteriorates greatly in quality before the curing process is complete. Under the laws of the United States this product cannot enter into interstate comduct cannot enter into interstate comduct cannot enter into interstate comthe laws of the United States this product cannot enter into interstate commerce under the name of "cheese" unless the name is further characterized. In the opinion of the board this product should be labelled "soaked curd cheese."

s, no man could point to any raunt, ith the goods, the people in that dis-ict were simply sending milk in good nodition.

That is not due to any one man, but the sending man probability of the sending man probability of the sending man probability. The sending man probability of the sending man probability o



# ENGINES AND BOILERS **BUTTER FACTORIES**

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neighborhood of \$4,000. They had to abandon their old one owing to the fact that the Trent Valley Canal wanted the ground. They have equipped their new factory with up-to-date machinery including steel cheese vats made in Tweed, also steel whey tanks.

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# Steel Cheese Vat



(Patented August 14th, 1006)

Durable—All Steel. Sanitary—Not a crack or spot for milk to lodge in and decompose. Mandy—Levers and gears to raise and lower inch by inch. Ideal Drainer—Built so the last drop runs out.

What Men who Know Say About Them: Am pleased to say that your steel cheese vat is the coming vat. After test-ing it carefully during the past year, I can recommend it very highly to all

G. B. LARRY, Finch, Ont.
Dairy Instructor.
I have examined and carefully tested your steel cheese vat and consider it the best vat I have ever seen and take pleasure in recommending it to all factory men.

H. E. BRINTNELL, Kingston, Dairy Instructor.

Dairy Instructor.
Your steel cheese vat is superior to anything I have ever seen. As to sanitation and durability it is by far the best. If the seed of the commendation were seen to be se

STEEL WHEY TANKS We have no hesitation in saying that we regard a steel whey tank as the best and most sanitary tank we use at the pre-sent time.

J. W. MITCHELL, Supt. East Dairy School. G. G. PUBLOW, Chief Dairy Instructor.

Get our free catalogue of steel vats, steel agita-tors, steel curd sinks, steel whey tanks, whey leader and smoke stack. Write us,

THE STEEL TROUGH & MACHINE Co. Tweed, Ont.



# Low many Cows can you keep?



Are you keeping the most possible? Would it not be possible for you to keep more cows on your present land if you adopted improved methods of dairying? If you will investigate the

# I. H. C. CREAM HARVESTER

you will almost certainly find that you can increase your dairy herd, making greater profits with even less labor and expense than you require under present conditions. less expense than you require under present conditions. I. H. C. Cream Harvesters are enabling hundreds of dairymen to enlarge their operations. They get all the butter fat, skimming closer than you can by hand. They save work, worry, time and trouble.

They give you the warm skim milk, fresh and sweet, as a nourishing food for your calves, pigs and chickens. It requires only the addition of a little oil meal to take the place

of the butter fat extracted to make it an excellent feed. I. H. C. Cream Harvesters are made in two styles: Dairymaid and Bluebell. Either machine will be a great help to you—will enable you to keep the maximum number

Dairymaid

This machine is chain driven and is made in four sizes: 350, 450, 650 and 850 pounds capacity per hour. The

chain transmits power from the crank through the gears to the bowl with minimum friction. This makes the Dairythe bowl with minimum friction. This makes the Dairy-maid exceptionally light-running, also very simple and dur-able. The crank and the supply can are at the most con-venient height from the floor, and the spouts are high enough to permit the separated most to be discharged into ten-gallon milk cans. The product to be discharged into ten-gallon milk cans. Than is constructed to keep milk and dust out of the gears. In every feature the Dairy-maid is a winner.

# Bluebell

The Bluebell is a gear drive machine and made in four sizes: 350, 450, 650 and \$50 pounds capacity per hour. The gears are accurately cut from the finest material procurable. Al oiling facilities are provided, making the machine long-lived. The frame is constructed so that it is absolutely impossible for milk or dust to gain access to the gearaths eliminates about 90 per cent of ordinary separator troubles. Yet the gears are easily accessible. The supply can and crank shaft are in the most coavenient locations.

Call on the International local agent and examine the machine he handles. If you prefer, write direct to nearest branch house for a beautiful illustrated catalog fully describing these machines.

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BE resolutely and faithfully what you are; be humbly what you aspire to be. Man's best gift to man is his sincerity, for it embraces his integrity also. Henry D. Thoreau.



# The Domestic Adventures

By Joshua Daskam Baco

need all your time."

I added further that it would be a

I added further that it would be a great change for both of them.
"For me, yes," she answered, "but not for Mr. Stroker. He has been under similar circumstances, once, to Africa. But he decided to try a more prepared field. He says that Africa is not ready for him yet," Sablina remarked that in yiew of her cole experience of Mr. Stroker she could not but feel that Africa, all could not be the feel that Africa, all could not be the feel that Africa and the feel that Africa are the feel that Africa and the feel that Africa a

open to congratulation than she had ever supposed possible for that dark continent

As for me I have added one line to my book of experience: Never engage a servant of whom you are

nworthy. Why don't Why don't you engage Mamie's aunt permanently?" Sabina inquired, munching her toast appreciatively: she always enjoyed Mamie's aunt's

"Because I cannot afford to pay her a dollar and a half a day," I replied "Ah," said Sabina, and returned to er morning paper. Chloe said noth-An, said sabina, and returned to her morning paper. Chloe said noth-ing. Indeed, her silence was so very silent that it was positively alarming. She might have been a polite visitor

from another planet, so complete was her detachment.

ner detachment.

I don't know why I should have felt so aggrieved, but I did. I hadn't a shadow of reason to reason to reason to reason take it also a did not a did n domesticity that even professional women persist in. She never sews on a button, nor presses out a waist, nor does her own nails. And all these things are far better done for her than they would be if she did them with her mind on something else, she says.

her mind on something else, she says.

As for Chloe, heaven knows her well-meant assistance had not proved as fash value that I abould object to the lack of it! But I did. I resented unaccountably their sitting there.

Sabina business-like and newspapered, Chloe dreamy and decorative, both of them washing their hands (in the finger bowls that Mamie's aunt filled to overflowing) of my difficulties. If they had been men, now, it would have been different; I remember I said this obstinately to myself.

\*\*Continued from last week)

\*\*Continued from last week)

\*\*Continued from last week)

\*\*Course I shall stay with you though my conscience reminded me of till the day before I go," she said, with her most martyrike-air, though I shall have a great deal to do. But I would not leave without proper notice.

\*\*Tindeed, Mary, we couldn't think of such a thing, "I assured her heartily; "it would be inhuman. You will need all your time."

I added further that it would be a large for the weeks past. I have no that the form of the changes that must come. I suppose this is the real reason—the changes that must come. I suppose this is the post come that for all domestic provides the p

Another progressive Children's Shelter at St. Thomas, Ont., where many poor and neglected little walfs walt for homes. See article by Rev. W. J. Shaw, of St. Thomas, on page 21 of this issue.

in skirts as long as mine, unconcern-ed, though the finger bowls resembled bath tubs. I might have been a wage earner, too, if it had not been for my grandfather; it was the first time I ever regretted the few hundred a year he left me.

ever regretted the few hundred a year he left me! "Bally," I said defantly, riding over all my good resolutions, "I don't see what I am going to do. The ser-vants will not come out here from town—not to this style of establish-ment, anyway—and there are no de-cent ones here. I don't like to bother you, either of you but the matter, is

I wonder if Sabina does not care a little, herself? When she told mean and she did it very gently, with the kindest efforts to spare my feelings without seeming to—I wondered if she realized what is would mean to her? For we have practically given up everything in the last four months, all the quite little amusements we used to have together, to entertain these monopolizing lovers; and I wonder if we shall not miss them when we are left alone again? For we cannot be quite the same; when she told rid we shall not miss them when we are left alone again? For we cannot be quite the same; when she told rid we shall not miss them when we are left alone again? For we cannot be quite the same; when she told rid we shall not miss them when we are left alone again? For we cannot be quite the same; when she told we will be a shall not miss them when we are left alone again? For we cannot be quite the same; when she told the wear of the same that the w

"I beg your pardon, my dear, I'm ire," she said apologetically. apologetically.

I might as well have been married I might as well have been married! "Of course what you say is perfectly true," she agreed, "it's a national question, apparently: I appreciate it fully—we get enough of it at the office; everybody sends us queries, and remedies and articles.

I see Wilkinson gets the assistant editorship of the Four Seasons; that will mean a great change in the policy will mean a great change in the policy of the property of th

ried people bicker and bother each other so. Of course there is no marrying in heaven; a very little consideration enables you to perceive that the object of marriage is the founding of a familiary of the control of the course of the course

And yet there is simply no excuse for my writing so bitterly. No one could expect to keep house in more auspicious circumstances than mine have been for two weeks past. I have

dullness without her-I am afraid

dullness without her—I am afraid with some reason, now!
You see, what hurts me a little was that Sabina should have known and not told me immediately. I don't know how long she had known, and I don't believe Chloe told her; she would sooner tell me, I think. Mr. Yan Xess probably told her himself, and the sound sooner tell me, I think. Mr. Yan Xess probably told her himself, and the sound sooner tell me, I think. Mr. Yan Xess good to the sooner tell me, I think. Mr. Yan Xess good to the honorable thing. But four months ago there would have been no such circumstances, and she and I would have known it together.
I brought it on myself in rather a queer way. The situation was growing somewhat strained at the breakfast table that morning, and Sabina awoke to the fact, though a little late, and applied her mind directly and the problem in hand. "It seems to me, she said, in her most judicial manner. "That you have made one basic error in your selection of servants. (My selection, indeed. Is it possible she didn't realize who has selected the servants?) I think I understand the psychology of your choice; you reasoned, perhaps unconsciously, that since this was not quite.

understand the psychology of your closes; you reasoned, perhaps unconsorted by the same that was not quite as normal same that was not quite as normal same that you engaged servants that the average family would not want. Mamie, for instance, had no experience; now we needed some experience. May had too much—we didn't need quite so much. Mary—" Here Sabina paused and cleared her throat. She has never been able to discuss Mary.
"Mary was not a servant at all," said Choe.
"But if we experimented with her

"But if we experimented with her in that capacity," Sabina urged. "Pooh," Chloe interrupted calmly,

"Pooh," Chice interrupted calmly, "she experimented with us, Sabina-and awful failures we were, too!" Sabina smiled indulgently at her. You see she knew even then. "It proves my point, either way," she said. "Now, the work of a family of average means, unless it is a doctor's, or a night watchman's, or-or an aeronaut's, ought to be about the same. What you want is a good, fairly well-trained, average servant; fairly well-trained, average servant; not an ignoramus, nor a housekeeper, nor a—a scientist; just one who is accustomed to work under a reasonable amount of direction. If such an one costs more than we have hitherto paid, we must manage to pay a little more, that is all. It would be poor economy to wear you out entirely, you know." know.

I must have been growing very irritable of late for I replied to this quite ungratefully.
"Is it possible, Sabina," said I, "that you are so ignorant of what the

housekeepers of your country have to contend with as to suppose that there is such a thing as the 'well-trained, average servant?'

hundre enter a cultiva fruits by enl. The ch ing to side, a along t articles that yo possibly ens. Y help th concern PI So m

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more imp the house better ver SANITARY

Close, many dis you make their hous drafts in should ha time wher is made or The first you have you have for years, soon as the clean it thing that ed to the rand walls.

# Chickens for Profit and Pleasure

A woman wante extra money for a bundred and one things that do not enter a man's head. The strip they cultivate mushrooms, rashy they cultivate mushrooms, ras

ns. Yet, you can do a great deal to all the moor is of boards, scrub clean concern.

PLAN FOR CHICKEN HOUSE
So many write asking for plans for linished when the chicken house is hicken houses that it has seemed

the breed by what you intend to make a specialty of, eggs or broilers or both. If either of the latter you had better select one of the larger broilers die the Rocks, Rhode Island Reds, Identicated Reds, Identi the breed by what you intend to make that is a non-sitter is the best layer; yet, the other breeds run them a close second. Climate should have something to do with the selection, also; the Rocks, Reds and Wyandottes are hardy and can stand more cold than the lighter breeds.

### MAKE YOUR PREPARATIONS NOW

the lighter breeds.

MARE YOUR PREPARATIONS NOW

Do all your planning and preparing this month for you should try to get some hatches be a properly and the place is thereof the place is thereof pullets. Where the place is thorough pullets are some said as good decade, chickens can stand a good decade of the place is thorough pullets. If you buy a pen of good birds wand when they come they have a cold, don't blame the breeder you bought them from but take measures to cure the cold. If there is a discharge from the nostrils, inject with a medicine dropper a few drops of camphorated oil night and morning for a day or two and if the cold seems a heavy one give a two-grain pill of calomel at night and a one-grain quiline pill the next morning and the next night. Great morning and the next night. Great the chicken the taken while so treating the chicken the taken while so treating the chicken is not not take such measures as frequently the camphorated oil alone will effect a cure; then again the calomel and quinine has to be resorted to. It is well to add a solution of copperas to the drinking water when the birds are so affected. These are old-time remedies and easily obtained.

More Neglected Children

More Neglected Children
The Children's Aid Society of St.
Thomas and Elgin County was organized in 1894. At the outset pool workwas done, but after a time the convex as done, but after a time the convex of the co

in upholding the rights of children in general.

During the fourteen or nearly fifteen years of the society's existence a good deal along these lines has been accomplished, many children have been taken from dens of vice and placed with good people under whose care with good people under whose care and being profess of the profess of the will have reached the years of maturity and will take upon themselves the responsibilities of life.

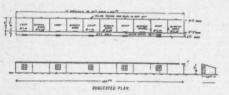
The St. Thomas Society has children placed in foster homes in widely distant parts of the country, several being on Manitoulin Island and the northern part of Ontario, others in eastern and western localities.

While there often comes to the While there often comes to the While there often comes to the while many are life to conditions in which many are life to conditions.

worker in behalf of children a feeling of sadness as he views the conditions in which many are living, there are also times when he is made to feel thankful for the opportunity to do something in helping the great work for which the Children's Aid Society. exists

An instance of this sort that seems has to be resorted to. It is well to worth mentioning occurred a few worth mentioning occurred a few further when the birds are as a ffected. There when the birds are as affected. The when the birds are as affected and easily obtained.

An instance of this sort that seems worth mentioning occurred a few to prevent ago in the case of five children who were taken from one of the worst and a half to ten anged from two and a half to ten year and a half previous, and their the right way you do not need stimul



warmer than a higher one would be.

It should be built facing the south if possible, and where the climate is not too severe, I would suggest a canvas front, or, at least, canvas instead of windows.

Experience with a house built upon this plan, but with doors opening into the narrow hallway, convinced us that the sliding doors were a necessity, and they will well repay for the extra work. If you have old lumber have a house built of these work. If you have old lumber have a house built of that and cover the outside with tar paper or even use it inside. It will keep the house free from vermin. The only drawback is that it is very "smelly" and hot in the summer, yet, where you have the canvas front, it can be used with good results. The summer is a summer of the summer is not the summer of the summer o

plain themselves

In reference to ventilation for the In reference to ventuation for the chicken house—and no other point is more important—I want to say that the house with the curtain front or the canvas instead of windows, is far better ventilated than the one with closed windows can be.

### SANITARY METHODS NECESSARY TO SUCCESS

Close, warm air is what causes many diseases among fowls, but if you make them hardy by not keeping their houses too warm, and not having drafts instead of ventilation, you should have a good egg yield at the time when eggs are high and money is made on them.

is made on them.

The first object of your hen house is that it be sanitary and be kept so. If you have a house that has been used for years, make an extra effort, as soon as the weather will permit, to clean it thoroughly. Remove everything that is not permanently fastenhing that is not permanently fastendad walls, pushing the broom into cream and walls, pushing the broom into cream of the place.

best to present a plan giving time to all to have the house built like the illustration, or with such changes with outside runs, will accommodate 200 chickens, 40 to the pen, but it would be better to have only 25 in each pen.

There is one change that I would suggest to tall people, and that is to build the house six feet in rear and eight in front, as, according to this plan, the nests, roosting boards, and so forth, are in the back and it would necessarily mean a good deal of stopping for tall people. The object of building it this height is to keep it warmer than a higher one would be. ANYONE CAN RAISE LIBEAGE, and any woman can who makes up her mind to do it. It doesn't matter how small her place; she can have some chickens unless her neighbors object. I would advise against anyone putting a large sum of money into the chickens unless ner neumons copies. I would advise against anyone putting a large sum of money into the chicken business, unless that one understood it theroughly from A to Z, and having had chickens on the farm about them. People and the comparison of the compari

are.

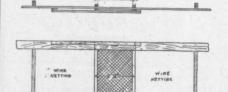
If you are going to use your old chicken house this spring, then clean it. Most dischesses among chickens come from filth and neglect of the sanitary conditions surrounding them. This is especially true of chickens on a farm where often the refuse of the kitchen, the entrails of fowls killed for the table and milk and other things that are tainted are thrown where the chickens get them.

### MAKE IT A PLEASURE

Chicken real hands to the bulkers of the bulkers of

chickens, can handle them and talk to them in the voice that soothes them to them in the voice that soothes them when frightened, don't attempt to raise them for profit, as you will most likely fail. Many troubles that arise with chickens on a farm are because, as a rule, they run in the stable yard where manure is piled and where they make they ma where manure is piled and where they pick up worms (maggots) and where mites and other vermin breed. We never had a case of gapes, and we have never permitted a manure pile to accumulate where the chickens could get to it.

My advice to beginners is to get a pen of the best birds that you can pen of the Make up your mind as to afford. Make up your mind as to



DETAIL OF BUGGESTED PLAN.

This is the hardest time of the year, so far as feeding the chickens is concerned, but if you can get turnips and cabbage they will furnish the green food necessary for them. Unless you do furnish green food you will find it hard to keep them singing and laying. Also give them the table scraps and some ground bone or beef some the control of the business of the control of the property of the control of the year, and your egg vield will be all right without stimulating powders.

Be up-to-date. Renew your sub-scription to Farm and Dairy.

lants, and if they are not healthy the stimulants will not make them so. against allowing any person who freward to them over for liee, then examine their quarters. I have tried the foreing method with bad results—it doesn't pay. This is the hardest time of the year, so far as feeding the chickens is concerned, but if you can get turnips and cabbage they will furnish the green food necessary for them. Unless you do furnish green food you will you do furnish green food you will

"Why don't you go home to your babies in Michigan and stay with them and your husband, where you will have good meals and a clean bed the same as we have here?"

G. S.
A couple of days later the matron
was surprised when a woman called
and asked permission to see the
children. She said she had received
g's letter and now wished to see them
to say good-bye before going home to

her own children. Of course her request was granted and with tears streaming down her face she kissed them and left for her own home.

them and left for her own home. We are sometimes assisted in our work, by receiving information from unexpected sources. Several times the writer has been called on by women who wished to have some child or other removed from improper environment and they have generally used about the same words in urging their plea. "Mr. S.—T am not good and don't pretend to be, but for God'e sake save those children and don't let them grow up to live a life like mine," is the way they usually wind up.

When those who admit that they found to exist between children and are in the paths of evil, so strongly desire that neglected children should be placed under good influences, healthy boys in the St. Thomas So should not good citizens everywhere clety's Shelter. One is nine years of

encourage and support the Children's Aid Society in its noble mission on behalf of children?

One method of helping in the child one method of helping in the child saving work may be easily adopted by those who do not enjoy the sun-shine of life which goes into a home with a young child.

The adoption of a homeless child

The adoption of a homeless child will result in much good to both the child and the foster parents. The letters received from foster parents and from children, give an idea of the blessings which in that way are brought to many homes. The writer has had the privilege of visiting many children who have been adopted and has been delighted with the relations found to exist between children and

age and is big for his years. The other is eleven years old. Both have lived in the country and homes with farmers are desired for them. Further information regar ling these two boys can be obtained by writing to Mr. W. J. Shaw, of St. Thomas, Ont.

During the past year a creche or day nursery was established in connection with the Shelter in St. Thomas to provide for the proper care of young children whose mothers have to go out to work by the day, and must

out to work by the day, and must otherwise neglect them. The children may be left at the creche in the morn-ing and taken out at the end of the

# Profit in Poultry

meeting of the te at Ennismore, pbell, of Windsor, Women's en's Institute at Colin Campbell, Ont., gave two very interesting and instructive addresses. The one in the instructive addresses. The one in the afternoon, was a most entertaining one, on Poultry Raising, is it a Problem Salve or Losing Business. "Mrs. Cupbell showed that she had a wide knowldege of her subject, as indicated by the many phases she touched upon. She talked on a great many phases of the poultry business, and at some length on all of the various points advanced. Among them were the site for a henhouse, housing poulpoints advanced. Among them were the site for a henhouse, housing poulthe site for a henhouse, housing poul-try, the varieties of hens to keep and the care and feeding of hens for egg-production. The hens that she con-sidered best as general purpose fowl were any varieties of the following breeds: Plymouth Rock, Wyandotte and Orpington.

CARE AND FEEDING FOR EGGS CARE AND FEEDING FOR Editor
There should be a good supply of
green food, meat food and grain,
the latter both ground and whole.
It is necessary to feed so as to induce birds to take exercise. In winter green food is supplied by feeding
cabbage, turnips or other roots, pulped or whole and by feeding steamed
ed or whole and by feeding steamed
mash.

Meat food is supplied in the form of ground green bone, such as been heads, livers, etc. Animal meat and heads, livers, etc. Animai meat and dried blood, etc., are good foods, but in many cases are more expensive than the others mentioned. However, they are very useful during the hot weather when it is impossible to use freah meat.

weather when it is impossible to use fresh meat.

Partially decayed meat should not be used as it is not healthful. Wheat is undoubtedly the most popular grain food for fowl. Corn is rather large and conspicuous and when in the litter does not give enough except a constant of the first of the refore best adapted for winter use therefore best adapted for winter use for for the first of the large percentage of hull owing to the large percentage of hull owing the first of the large percentage of hull or winter use for the food of t on the floor at noon and all the whole grain the fowl will eat at night.

The objection to feeding the mash The objection to feeding the mash at night is that it becomes quickly digested and the bird has not sufficient food to last it during a long winter night. There should be a plentiful supply of good, pure water within easy reach at all times.

easy reach at all times.

Other essentials are grit, which may be given in the shape of sharp gravel, broken delft in small pieces, oyster shell, etc. Lime should always be before the poultry in the form of either oyster shell; old mortar or cut bones. Fowls which have acquired the habit of eating each other's feathers

or picking at each other's flesh are suffering from a depraved or vitiated appetite and it indicates that they consider the suffering from a depraved or vitiated appetite and it indicates that they consider the suffering from the cause of the sure such as outmeal, too much meat, hot mashes, and other forms of rich food, as well as the absence of green bone, are some of the causes of this habit. To cure it the fowl should at once be supplied with green food and sulphur should be given them in their food. One tablespoorful of sulphur stirred in given once every 24 hours. Give them a place in the hen house, where they can dust themselves at will, and on the bare places rub compound sulphur ointment or carbolized vasculine. Do not fred them more than they will eat quickly, leaving none, and avoid giving them hard grain, such as corn and wheat in the middle of the day. of the day.

EPSOM SALTS FOR FOWL

EFSOM SALUS FOR FOWL

Many fowls are often mopey. They
stand about in a drooping fashion
and do not lay or progress. Another
is that they are overfat. As an antidote to both conditions nothing is beter than Epsom Salts. They clear out
all impurities from the drooping ones
and reduce the fat. One-half a teaproposal to be one for every other day
many than the conditions of the condition of the
Mix it in a little soft appetizing food.
Add the salts in proportion to the
number of fowls.

POULTER RAISING PROPETABLE

POULTRY RAISING PROFITABLE

Many farmers look upon poultry raising as an unprofitable undertaking, the few chickens they keep being a small item of their business, but this is a great mistake. If the farmers and all poultry raisers were to keep accurate account of incomes and expenditures as a merchant and another man of business does, they would find that the sale of eggs and poultry would amount to a consider. poultry would amount to a considerable sum at the end of the year.

### ... The Wife's Allowance Eunice Watts, Nova Scotia

Why call it an allowance? We no Why call it an allowance? We no longer live in the barbarous ages when men hunt their wives with clubs and take them by sheer force. In those days women were kept as a species of slave and it would then be permissible to call what the husband gave her, whether rations, or what not—an allowance.

gave her, whether rations, or what not—an allowance.

Now we live in an age when it is generally acknowledged that the husband and wife take each other for better for worse, for richer for poorer, not to mention "all the worldly goods" with which the man endows goods with which the man endows to the reason it is better if they are of this reason it is better if they are of this reason it is better if they are of the reason it is better if they are of the reason it is better if they are of the reason it is better if they are of the reason it is better if they are of the reason it is better if they are of the reason it is better if they are of the reason it is better if they are of the reason it is the reason in the reason

### FARM LIFE BEST

PARM LIFE BEST
Perhaps there is no life better adapted to the division of profits, (or better still, union of two purses), than on the form where man sand wife carry the still be more reason able than for a husband able than for a husband able than for a husband the work are equally the money which they have both equally carned by sharing the work and the struggle of gathering a home together?

Many farmers and their wives often begin life with nothing and in that case it is impossible to give the wife a stated weekly allowance. If the wife is a true partner, she will strive

# Should you ask

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it would be hard to answer because it has so many valuable uses for household and dairy purposes.

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Do you scription free? Th your own

in cities where the husband goes to business, or has a regular salary, per-haps it is better to allow a certain sum for household expenses, putting the balance by for a rainy day; but the balance by for a rainy day; but ways work. The farmer's income varies from month month and from varies from month month and from varies from month to month and from year to year, and there are good years and bad years, but whatever the in-come may be, it should be the joint property of both partners. Just as a lantern is incomplete without its glass globe, so is the file of incomplete without his wife.

farmer incomplete without his wife. The farmer may beau the burden and heat of the day, but the bears the burden and heat of the burden a

a servant."

The wife's allowance can only be settled by the individuals themselves; still it is to be hoped that these discussions will open the eyes of some men to see the true value of those wives who give their all and ask for nothing but a bare living in return. ...

# A Cure for Canker Sores

One of the best and mildest remedies for canker sores when they first appear in the mouth is red vaseline. Anoint the sores well with the vaseline just before retiring at night, and if they are not gone by morning, re-peat the treatment several times dur-ing the day and they will disappear as if by magic.

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Be not deceived: God is not lineared; for whatsoever a man soweth, that shall he also reap.—Galatians 5,7.
How easy it is to look at the lives of some of those around us and thus become dissatisfied with our lot. There are so many who seem to be having a much more enjoyable time. There are so many who seem to be having a much more enjoyable time than the rest of us. They have all that money can buy. They have pleuty of help and leisure for reading help with the seem of the mean. In some different can be seen to be different to be lived to the seem to be different to be differe

to believe that much of their money they seem to enjoy so much has been gained by questionable methods. Not long ago a mother told me of a girl acquaintance of hers who had married a contractor. This contractor has been accused, in the press, of having obtained wealth through contracts ob-tained from the government by disobtained wealth through contracts ob-tained from the government by dis-honest means. His wife appears to have all that her heart can desire. This mother seemed to think it unfair that she should have to work hard every day attending to the numerous needs of a large family while her-friend had nothing to do but enjoy life.

life.

It is dangerous to allow such thoughts to enter our minds. They are like ugly bats. If they can once gain a footing they will drive out all our better and most elevating thoughts and leave us discontented and unhappy. We must remember the words of our text and not be deceived. While God, for reasons that we cannot fathom, may allow such things to not fathom, may allow such things to be, we have assurance that He is not be, we have assurance that He is not mocked and that in due time He will see that whatever people sow that they shall, short people for the state of allowing ourselves to become discouraged and resentful we will go about our duties each and every day, asking God to help us to be bright and cheerful and loving and kind, we will have the pleasure of helping those around us and we may know that God has promised to reward us for our good deeds no matter how simple and unimportant they may be.

Then, also, we should remember that things are not always what they seem. Many a man who has amassed a fortune by dishonest methods would

to help her husband invest what they can in the farm, for it is impossible to get money out of land without put. Still, all work and no play is not Still, all work and no play is not strict economy. Recreation is necessary at times, both for the farmer and his wife, in order to give them can his wife, in order to give them can his wife, in order to give them can be considered to the fresh energy to continue. The daily round, the common task."

How casy it is to look at the lives the fact of whose around us and thus the has given us our place in life. that He has given us our place in life because it is the best place for us and we must look to Him for the help and strength that He has promised to give us, if we will ask Him, and which we require if our lives are to be truly successful, according to God's standards, not by those of the world.—I. H. N. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

THE COOK'S CORNER

Bend in your favorite respect for application in this column. Inquiries pertaining to cooking are solicited, and evil be replied to, as soon as possible will be replied to, as soon as possible sent free for two new yearly will book at \$1.00 and. Address, Household Editor, this paper hold Editor, this paper

COCOANUT COOKIES

OCOANUT COOKIES

Cream 1 cup buter with 2 cups sugar, add 2 eggs, and 2 cups rich cream. If sweet cream is used add 2 teaspoons baking powder to the flour, but if sour cream is used disaolve in it 1 teaspoon, sock and omit the baking powder. Flavor with ½ teaspoon shalls, and sift in flour concept of the constant of the flour, but if sour cream is used disaolve in it 1 teaspoon, sold and omit the baking powder. Flavor with ½ teaspoon when the constant of the

### SOUR CREAM CRULLERS

To 1 cup sugar add 1 cup sour cream, in which dissolve 1 level teaspoon soda, 1 beaten egg, and flour to

CREAM FRIED CAKES

CREAM FRIED UAKES
To 1 well-beaten egg add 1 cup
sugar, 1 cup sweet cream, and flour
enough to make a soft dough, sifted
with ½ teaspoon soda, 1 teaspoon
cream tarfar, 1 teaspoon cinnamon
and some salt. Roll about ½ inch
thick, cut in any desired shape, and
the ind ham bed fard fry in deep, hot lard.

HICKORYNUT DROP CAKES

To the well-beaten whites of 4 eggs add 1 pt. white sugar, 1 pt. hickory-nut meats, and 4 tablespoons sifted flour. Beat lightly for a few moments. then drop by teaspoonful on greased cake tins, allowing room for spreading. Bake about 15 to 20 minutes.—N. W. Surth, Ontario Co., Ont.

CHICKEN BROTH FOR INVALIDS

Cook the chicken, season with a take out the meat, pour the liquid into a large bowl. Cut a piece of brown paper the size of the top of the bowl, and put on the top of the bowl, and put on the top of the broth own, and put on the top of the broth while warm. The grease will raise and adhere to paper, leaving the broth free from all faity substances. This will be relished much better by the patient—Mrs. J. W. Robbins, P. E. Co., Ont.

FRUIT COOKIES

One and one-half oup sugar, 1 cup butter, 2 eggs beaten, 1 cup raisins, 1 cup currants, 1 teaspoon soda, 1 tea-spoon each of cloves, nutmeg, mace, and cinnamon, 1 tablespoon milk, 4 cups flour,—Marion Dallas, Frontenac Co, Ont.

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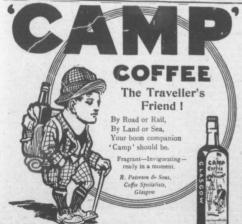
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When the stomach is out of order, When the stomach is out or order, or you have just recovered from a siege of stomach trouble, and you cannot easily retain ordinary food, try drinking a glass of milk with one teaspoon lime water in it. Sip it slowly.



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Teeth need exercise to keep them in good condition. A noted dentist once advised a patient to chew beeswax-just a little once a day. wax is pure and harmless, will resist the teeth gently, and its use will aid the teeth to become white, and clean, and strong, and the gums firm.

Some toothaches can be relieved by bathing the gums with hot vinegar and filling the cavity with vinegar as hot as it can be borne.

In cases of cold or over-fatigue, hot milk, as hot as it can be drunk, is a most refreshing stimulant. Its action is quick and grateful.

To relieve indigestion, drink about quarter glassful of hot water, in which dissolve as much baking soda as will cover a ten cent piece.

Some children have soft and britthe teeth. Get them a dessertspoon or tablespoon syrup of lacto-phosphate of lime before each meal; and let them eat whole wheat bread.



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F. D. O. BACH, Manager, The 1900 Washer Co., 357 Yonge St., Toronto





Her Majesty

It was one of Catherine's "make believing" days.
"I'm the Queen of England," she solemnly announced at dinner time solemnly astiff cardboard crown atop She had a stiff cardboard crown gold

paper stars bespangling it.
"You must say 'Your Majesty' to
me, every time, or else, 'Your Royal
Highness.'"

Highness."

Papa was serving the Monday

"picked up" dinner. He put a generous portion on Queen Catharine's

plate, and extended it gravely.

"Will your majestv have some
hash?" he asked, with a low bow,

"Do queens eat hash?" Catharine
whispered aside to mamma, a doubtful tone in her voice.

ful tone in her voice.

"If I were a queen, I think should," whispered back Mamma. I think I Catharine took the plate with a lofty inclination of her head and toppled

inclination of her head and toppled the crown off ignominiously.

"What will your majesty have on your rice?" questioned Mamma later.

"O, m'lasses," her majesty said promptly. "I always want m'lasses, There's two jugs of it in the royal pantry a'purpose, both of them brim-

Papa lifted his hands in wonder.
"Two jugs!" he murmured.
Well, the "make believing" went on
all afternoon, until Queen Catharine's all afternoon, until Queen Catharine's big blue yes grew droopy and the gay crown wore out. And all the time she was "her majesty" to everybody. "O, deary," she said softly at last, "I'm homesick for me. It don't agree with me to be Queen o' England when it's most bed time."

She went up to Mamma's chair and titled un and down on the rocker.

"Mama," she whispered shyly.

"Mama," she whispered shyly.
"Yes, your majesty."
"No, it's just me, Mamma; I guess I don't want to be 'her majestied' any more. Her majesty's gone back to England to bed. I'm Catharine, come to stay with you, and be your little common every-day girl."
"Oh, I'm so glad you've got home, Catharine; mamma cried delightedly.
"I'm so glad to see you."
"So'm I," Catharine said, breathing long, cozy breaths and cuddling up to mamma.

. . .

Sure Way to Remove Ink Stains

Ink stains are often very difficult to remove from linen, especially when they have been allowed to dry into the material. The following method of effectually removing ink stains from table linen or any other white material has proved the most satisfactory in the range of my experience. in the range of my experience. It will remove the stain whether old or fresh and will not injure the most delicate fabric if done right.

delicate fabric if done right.

First apply a strong solution of bichloride of lime to the stain and wash
out immediately in soft, cold water.

A brownish yellow spot will remain
where the ink has been. You may
have to repeat this process two
three times before all the black is
faded out of the material. To remove
the discoloration which remains after tacted out of the material. To remove the discoloration which remains after these applications apply a strong solution of oxalic acid and wash out immediately, the same and wash out immediately, the same of the application of the acid is all that is application of the acid is all that is discolorated which was the same of the chemicals may be removed from the fabric. Not a trace of the stain will remain. Of course, this method must not be tried on colored goods.

# The Sewing Room

Patterns 10 each. Order by number and size. If for children, give any: for adults, give bust measure for waists, and waist measure for kirks. Address all orders to the Pattern Department.

INFANT'S ONE- PIECE KIMONO 6228



Kimonos have come to be much in de-mand for the tiny infants. They are mand for the thing infants. They are easy to slip on and off and they mean perfect comfort to the baby. This one can be made long to serve as a wrapper or short to serve as a serve as a little sacque. a little sacque.

For the long kimono will be required 2½ yds of material 24, 2½ yds 27, or 1½ yds either 36 or 44 in wide with 8½ yds of banding; to make yd any width

the short kimono he short kimono % yd any width.

The pattern is cut in one size only, and
ill be mailed on receipt of ten cents. will be TUCKED BLOUSE WITH FANCY YOKE



The blouse that is made with a combination of wide and narrow tucks is a very charming one, and peculiarly well adapted to the fash-ionable thin materiionable thin materials. When washable materials are used, the blouse is designed to be made unlined, but it is just as well adapted to net and to silk as it. net and to slik as it is to lawn, batiste and the like, and a titing lining is included a the pattern. To medium size is 5½ yds 32 or 2½ yds 44 in wide, with ½ yd of

all-over lace

The pattern is cut for a 32, 34, 36, 38, 40, 43 in bust and will be mailed on receipt of ten cents.

COMBINATION CORSET COVER AND KNICKERBOCKERS 6225.



This garment com-bines a closely fit-ting corset cover with knickerbockers. It can be made from soft finished nain-sook with trimming of beading and frills, but batiste and all the materials that are used for underwear are appropriate. Material

for the medium size or yds 36 or 2½ yds 44 in wide, with one ard of wide beading, 3½ yds of edging, yds of narrow beading. for the medium

The pattern is cut for a 32, 34, 36, 38, 40 and 42 inch bust, and will be mailed on receipt of ten cents.

CIRCULAR SKIRT 6226.



This skirt can be and either with or without the seam at the front and with or without seams over the hips, so that it is adapted both to narrow and to wide materials.

wide materials.
Material required
for medium size is
6% yds 24, 5 yds 32,
3% yds 44 or 3 yds
52 in wide if made
with seam at the
centre front; 4% yds
44, 4 yds 52, if made

without seam. The pattern is cut for a 22, 24, 26, 28 30, and 32 in waist and will be mailed on receipt of ten cents.

cept of ten cents.

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What

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But more No cla readil she go more increa dozen lion d more averag last ye and th million the po million A co ing the

> thrivin The o 1. Th high-cli eral-pu live an try pro sive bu feeding also ol handle in gen storage.

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tion a Yards

# THE LARGEST POULTRY PLANT IN CANADA

## What The Poultry Yards of Canada, Limited, are Doing for the Advancement of the Poultry Industry of the Dominion

of the Poultry Industry of Canada is growing in proportions that are not realized by farmers in general, is growing the Prof. F. C. Elford, of Macdonald College.

The Canadian year book shows a station tense of poultry during the 10 years 1891-1901 to have been a little over 3.800,000 head. Taking the 101 years 1891-1901 to have been at little over 3.800,000 head. Taking the 101 years 1891-1901 to have been at little over 3.800,000 head. Taking the 101 years 1891-1901 to have been and Canada has to-day 22 million head of poultry Granting that 2-3 of these are laying hens and we have about 14,700,000 producing eggs. According to the same authority each hen in 1901 laid seven dozen eggs and the total sale of eggs gave a gross annual revenue to the country of nearly 50 million dollars.

dollars.

If the Canadian hen laid the same average in 1908 that she laid in 1901 there would be for this year about 103 million dozen eggs which at 25 cents would mean a gross revenue of 2534 million dollars.

But a good honest hen should lay more than 7 dozen eggs in 12 months. No class of farm stock will respond so more than 7 dozen eggs in 12 months, No class of farm stock will respond so readily to good treatment. Providing she get this care and that one dozen more eggs per hen is the result the increased revenue from the extra dozen eggs would amount to 3% million dollars. Give the hen yet a little more selection and care so that the more selection and care so that the capable of the selection and care so that the more selection and care so that the necessary of the selection and the increased revenue would be an and the increased revenue would be all million dollars or a gross income from the poultry yards of Canada of 38 million dollars. A company that has had much to do with this great increase, that is help-ing the poultry industry by example, instruction, organization and general instruction, organization and general continuation and the poultry fordustion and the selection and the selection of th

The objects of this organization are The objects of this organization are:

1. The breeding and distribution of high-class utility poultry of the gen-ral-purpose breeds. 2. Dealing in live and dead poultry, eggs and poultry products (this includes an extensive business in the buying and cratefeeding of market fowl.) 3. They are also chartered to manufacture and handle poultry supplies, and engage in general warehousing and cold in general warehousing and cold ry supplies, and engage warehousing and cold in general storage.

The principal object of engaging in the breeding business is to develop the poultry industry by disseminating the right kind of breeding stock, to the end that by improving the process of the end that by improving the purchase in large quantities the right kind of table-poultry. The farm has capacity or 25,000 brids, and has been always to table-poultry. The farm has capacity at 25,000 brids, and has been so the following breeds and varies of the following breeds and varies. Barred, White and Buff Plymouth Rocks; Silver-laced, Golden, White and Buff Wandottes; Buff, Single-comb, Brown and Rose-comb White Leghorns; Rhode The principal object of engaging in

a rectangular enclosure for fattening fowls, 70 x 14 ft. The fattening shed is 24 x 114 ft.; at 12 migs to it is the feed store-room, angles to it is the feed store-room and plucking the killing-room and plucking the killing-room and plucking the store of the feed store-room and plucking the killing-room and plucking room and the killing-room and plucking-room and the killing-room and plucking-room and the feed the store from the feed to the store from the feed to the f



Money Makers of the Poultry Yards of Canada, Limited, Pembroke

Island Reds, and Buff Orpingtons. Vigorous stock, housed and managed on rational principles, are bound to produce healthy birds, which were a produce healthy birds, which were a delight and surprise to the represen-tative of "Farm and Dairy," who did not expect to find on a large plant such a high level of thrift and uni-form excellence of type. While the Poultry Yards of Canada Company never figure in the show-ring—it being their nolizy to abstain tem orbibities. their policy to abstain from exhibition
their policy to abstain from exhibition
they have bred many birds that
have won prizes in other hands. In addition to the stock reared at home, their business is extended by a systheir obsiness is extended by a sys-tem of auxiliary yards, breeding stock being sold to farmers, with provision that the purchase price is to be repaid in young stock selected by the com-pany. Probably 1,000 birds have been let out in this way.

The plant covers 12 acres of land, admirably situated on the high bank of a small tributary of the Ottawa, half a mile from the heart of Pembroke, and within the corporation limits. The Pembroke spur of the Canadian Atlantic branch of the brick buildings-one a commodious

brick buildings—one a commodious and elaborately-insulated cold storage, which at the time of our visit was stocked with poultry for the Christmas trade, the other a proving warehouse. The two houses of breing pens are provided with long yards livided by wire netting. Beyond this wire netting. Beyond this action of small colony houses, also provided of small colony houses are provided to the colony house of small colony houses, also provided with a range of yards similarly fenced. The colony houses are at about two and one-half feet off the ground, affording shade and protection to the poultry in summer. The facilities and appointments about the valuet are the simplest and the hest laculties and appointments about the plant are the simplest and the best that ingenuity could devise or money obtain. In the breeding houses the pens are 10 x 16 ft., with a four-foot passageway extending the full length of the building. In the back of each is a roosting compartment, which may be enclosed on cold nights by a is a roosting compartment, which may be enclosed on cold nights by a hinged curtain door. At the side of each roost is a double cock-pen, providing for the housing of two male birds, one being confined while the other is allowed with the hens. Under the roosts on or under which there was

Grand Trunk Railway divides the property. A general idea of the lay-tout of the plant may be obtained from out of the plant may be obtained from our litteriation. To the left of the railroad strate, as one stands on it facing noted, as one stands on it facing noted in the fact of the standard property of the standard propert curing plenty of light and iteal ventilation without dards. These curtains together with a straw loft overhead, go to maintain separate of the concondition of the interior atmosphish of the concondition of the interior atmosphish of the concondition of the interior atmosphish of the concondition of the condition of the contered floor. The floors are made of concrete, laid over thick cobble stone and bricks, not a trace of moisture being seen. Meat is kept before the flowls, and a vegetable pinned on the wall where it may be easily reached.

reached.

It was after careful tests of all the leading incubators, and the desire to produce an incubator that was adapted to Canadian climatic conditions that the experts connected with the Poultry perts connected with the Poultry Yards of Canada produced the incubator which is now used on this plant. After many tests of this incubator under all kinds of conditions in all parts of Canada a company was formed to place it on the market

a company was formed to place it on the market.

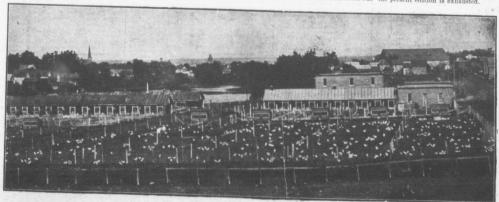
Mr. Thomas W. Lee, managing director of the Poultry Company was made managing director of the company to manufacture the incubator. The company is known as the Lee Manufacturing Co., Limited, and the incubator is the "Peerless."

Peerless. Very the Lee Manufacturing Co.

Now, the Lee Manufacturing Co.

Now, the Lee Manufacturing and helping the farmers of Condo or also more and better poultry. As the state of a complishing this object the farmers of a complishing this object the formed the Peerless Poultry-for-prefit Club. Every user of a Peerless Incubator is a member of this club and entitled to the advice, instruction and help of the experts of the company without charge. These experts are thoroughly equipped to solve any

help of the experts of the company without charge. These experts are thoroughly equipped to solve any problem that is submitted, and to put those interested on the right track to make a real success of poultry-raising. The company have published a book called "When Poultry Pays," which contains a large amount of poultry information, and explaining the way to go into poultry-raising without much capital. The company has kindly capital. The company has kindly capital. The company has been consented to send to each reader of "Ferm and Dairy" a free copy of this book, provided a request is sent before book, provided a request is sent before the present edition is exhausted.



A View on the Farm of the Poultry Yards of Canada, Limited, Home of the Peerless Poultry-for-Profit Club.

Toronto, Monday, Feb. 1, 1939. — The general trade situation continues steady
There is a desire on the part of the retail
trade to get rid of old stocks before buying newer cook. These are being gradularge cleaned up, however, and the situation is every week improving. The outlook for spring business continues bright,
to find the policy of the continue o

John Street Stre

Bran is scarce and prices are higher. At Montreal, Manitobs bran is quoted at \$21 to \$22 and shorts at \$24, and Ontario bran at \$22 to \$23, and shorts at \$24 to \$24 50 at ton in bags in ear lots. Dealers here quote bran at \$20.50 to \$21, and shorts at

Windsor Dairy Salt —the Butter-Salts makers' thorfavouroughly. No lumps or grittiness.

There is no change in the seed market. Prices at country points rule at 85.9 to 87.50 for alsies: 85 50 to 85.5 for red clover; 87.9 to 88 for affalfa, and 81.90 to \$2.10 a bala. for functive, as to quality. Dealers here quote selling prices as follows: Aslice, 87.7 to \$2.52; red clover, 85 and timothy, at 82 a bala.

last week at 15c. Dealers here quote chees at 15c to 15]c for large and 13c to 15]c for large and 13c to 15]c for large and 13c to 15]c for large to 15c to

UNION STOCK YARDS HORSE EXCHANGE

The encouracing feature of the borse situation is the remarkable activity in the Westers and see, at this one choice draft borses and see, at this one of the seed The encouraging feature of the horse ituation is the remarkable activity in

Mention Farm and Dairy when writing. All week and prices were well maintained. Receipts have ruled fairly large and the

INCORPORATED 188

and Surplus \$6,350,000

of Canada Assets \$34,000,000

You would find it very convenient to have a Joint Deposit Account with this Bank, in the names of yourself and your wife, or son. Then either could do the necessary banking when in town, depositing or withdrawing money on the one signature. It would save you many a trip on busy days. \$1 opens a Savings Account

THE BANK FOR THE PEOPLE

One of the 80 Branches of this Bank is convenient to you.

percentage of good cattle was not as large as the market demands. The bulk of the lower of the city market have been of medium quality and yet trade was brisk, with a tendency towards higher prices. The market is stronger just now than it has been for many years at this season it has been for many years at this season that the stronger just now than it has been for many years at this season the price of the work of the price of the price of the price of the work of the price of the price

cattle.

There was a good demand for milkers and springers during the week. Some quebec buyers were on the market on Thursday who helped to maintain prices, which ranged from \$30 to \$85 each, only one or two cows, however, being good enough to bring the latter figure, the bulk selling at \$45 to \$85 cach.

The hog market ruled strong all week, and a variety of prices is reported from the country. Packers quote the market steady at \$8.55 for selects, fed and watered on the market here and \$8.40 f.o.b. at country points. Some dealers, however, report having to pay \$8.50 f.o.b. at country points.

at country points. Some dealers, however, report having to pay \$6.50 f.o.b. at country points, and in some cases \$6.60 and years and the some cases \$6.60 and the market here, and then the state of the market here, and then the state of the

UNION STOCK YARD PRICES West Toronto, during the week were on the light side. Selling however ruled fairly active at about less the model of the control of the light side of the control of the co

THIS WELK-S FIGS PRIORS
The William Davies Company, Toronto,
will pay \$6.50 f.o.b. at country points for
hogs this week. The arrivals of hogs continue to show a large proportion of heavy
overdone hogs, that are not of the kind
overdone hogs, that are not of the kind
overdone hogs, that are last week totalled
made. Danish killings last week totalled
made. Danish killings last week totalled
agen hows.

PETERBORO HOG MARKET

Peterboro, Feb. 1. — The delivery of hogs on the local market is light. Danish de-liveries in England last week were 39,000. on the local market is light. Danish de-liveries in England last week were 59,000. The demand for bacon in the old country is rather quiet but prices are fair. To George Matthews Co. quote the following prices: f.o.b. country points, \$6.55 a cwt.; delivered at abattoir, \$6.73 a cwt; weighed off cars, \$7.00.

MONTREAL HOG MARKET

Montreal, Saurday, Jan. 20. — The local market for live hogs has shown decided strength as compared with last week, and a further advance in price is to be record-ed. Supplies were rather light and met with a very good demand, and selected to tweighed off cars sold all the way from 87.25 to 87.50 a cwi.

### AYRSHIRE NEWS

AYRSHIRE NEWS

The annual meeting of the Canadian Ayrshire Breeders' Association, will be held in Hall No. 6. Monument National, 26 st. Lawrence Main street, Montreal, 26 st. Lawrence Main street, Montreal, 26 st. Lawrence Main street, Montreal, 27 st. Lawrence Main street, Montreal, 27 st. Lawrence Main Serveta, and Committees, also for the election of older, Secretary-Treasurer, Registers, Record of Performance Test Work, and Committees, also for the election of olders and for the transaction of any other serve and for the transaction of any other serve may properly come before the meeting.

All interested in the breeding of Ayrshire cattle are invited to attend.

The Directors will meet in the parlors of the Queen's Hotel, control of Tuesday afternoon, February 16th, 10th, 10th,

outing.

I beg to remind members that the annual fee for 1909 is now due. A prompt remittance to the accountant, National Live Stock Records, or the Secretary-Treasthose who have not remitted the fee for 1908 to do so at once.

ABSORBINE

Curbs, Filled Wollen Tissues, Curbs, Filled Tondons, Soreness from any Bruise or Strain, Cures Spavin Lamenees, Allays Fain Does not Blister, remove the bair of lay the horse up, 25,00 a bottle, delivered. Book I D free, ABSORIINE, JR., (maxindsi.obottle,) For Synovita, Strains, Control, For Synovita, Strains, Control, Strains, Control, For Synovita, Strains, Control, Synovita, Strains, Control, Synovita, Strains, Control, Synovita, Strains, Control, Synovita, Synovita, Syn

Unless and ask R. R. N

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HIGH The mo Hengerve the F. Mass. It two cows summer, 100.4 lbs. seven di

butter. butter in days. of any m It was wi Brown Br but as th a daught the older the 30 lb. calf, and sons and spring, as

FOR SAI TWO CENT HOLSTEIL from or bulls fr Justice

P. R. ENGLISH PAI ation on ulars,—H

ABRAM E. sheep. Si sale. R. H. HARD

CAR

JUS. FEAT Large Yorks It is desire

Warranted to Give Satisfaction. Gombault's **Gaustic Balsam** 



Has Imitators But No Competitors.

as anti-graph and Positive Cure for Curb, Splitt, Bwessey, Cappa Ricels, Gurb, Splitt, Bwessey, Cappa Ricels, Pulls, and all lancesas from Bayeria, Eligions and other bony inners. Eligions and other bony inners. Eligions and other bony inners. Eligions and Elizabetic Removal at Bunaches from Herses or Catife. In Ryman, Benedy for Resonation, and Ryman, Benedy for Resonation, Special Company, and the Company, and the Special Company, and the Company, and the Special Company, and the Company, and the Property of Canadia, Balana, sold to the contribution of Company, and the Compan

The Lawrence-Williams Co., Toronto, Ont.

Unless otherwise advised, purchase rst-class single fare ticket to Montre and ask your station agent for a standard convention railway certificate.

R. R. Ness, W. W. Stephen, President, Secy. Treas.,

Howick, Que. Huntingdon, Que.

### HIGH PRICE FOR A HOLSTEIN cow

COW

The most important asle ever made from the Londale berd of Holsteins owned by the Londale berd of Holsteins owned by the Londale berd of Holsteins owned by the Londale law for the L Brown Bros. parted with this pair of cows but as the price was a tempting one, the largest ever paid in Canada-and having a daughter and two grand daughters of the older cow also a son and daughter of the 30 lb. cow, and an option on her next calf, and prospects of a number of grand-sons and grand daughters this coming spring, as well as a large number of heirf

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

OLSTEINS FOR SALE.—Thirty removes from one to seven years. Six young bulls from advanced registered stock. Justice H. Mcf.ean, Inkerman, Ont., C. E-1-27-09 HOLSTEINS FOR SALE.—Thirty females

ENGLISH FARMER'S SON desires permament situ ation on good farm. Address with full par ulars,—Harry Gregory, Welland P.O., Ont.

SHEEP

R. H. HARDING, Mapleview Farm, Thorndale, Ont. SWINE

ers of similar breeding, they decided to sell, believing that they had others that would all their that they have also recently sold mass from the control of the con

### HOW TO SAVE INCUBATOR CHICKS

All engaged in poultry raising are interested in solving the problem of artificial inclusion. The experiments content in the content of the c All engaged in poultry raising are in ваув:

lessor says:

"For two years we have been making a study of how a hen hatches eggs, and have been triffer to apply what we learned to affine the same to a substantial to the same to a substantial to the same to cause of white diarrhoos in causes of white diarrhoos in causes of white diarrhoos in chicks. We have succeeded in hatching chickens that grow and live well by washing the machine with a ten per cent. solution of Zenoleum before putting in the eggs, i.e., after the machine it ing in the eggs, i.e., after the machine it is washed all over the lindée, including egg tray and everything,"

CATTLE

The positivy manager of the Quebec Agricultural College, Father Lágouri, corroborates Prof. 6. In many set of the results of using Zenoleum and the results of using Zenoleum an effective-green Zenoleum is not only an effective-green zenoleum and insect foes of ponitry, and parasitic and insect foes of ponitry, and parasitic and insect foes of ponitry, and ire stock generally. It is non-poisonous, can be given internally in solution, and is can be given internally in solution, and is not considered to the poultry part of the part

GEO. JACKSON, Auctioneer, Live stock a specialty. Address Port Perry. 'Phone 31.

# HOLSTEINS

FOR SALE.—One Holstein bull, two years old; one cow, 6 years old; two yearing heifers and bull calf.—SAMUEL LEMON,

## BERTRAM HOSKIN

Mount Pleasant Farm, The Gully, Ont. Breeder of Holstein Cattle, Tamworth Swine. High-Class young stock for sale Long Distance Phone 0-10-28-69

FOR SALE-30 HEAD of HOLSTEINS If you are wanting a choice young cow heifer it will pay you to write me before mak yourselection, or better come and pick them o

GORDON H. MANHARD
E-5-5-9 Manhard P.O., Leeds Co., Ont.
7 miles sorth of Brockville on C.P.R. (Clark's Crossing)

HILTON STOCK FARM

R. O. MORROW & SON, Hilton, Ont.
Breeders of Holsteins, Tamworths, and
Cotswolds. Present offerings, 3 young
bulls, boars it for service, nows bred. Also
young pigs, all choicely bred. 10.110.02
Felephons connection. Brighton, 6. T. R.

# LYNDALE HOLSTEINS



Head your Head with a son of Sara Hengerveld Korndyke whose dam was recently sold for \$2,000, his 3 nearest dams average 29,12 lbs, butter each in 7 days. Only 2 of his sons left. We still have a few sons of Count Dekol Petertje number of Helfers for sale.

BROWN BROS, LYN, ONT. SPRINGBROOK HOLSTEINS

# AND TAMWORTHS

32 Choice Young Tanworths, from imported sows and sired by imported Knowel King David. A few rich bred Holstein buils and several females. Bargai'ss to quick buyers. A. C. HALLMAN, E-5-11-09

# SANGSTER



ORMSTOWN, QUE.
Four bull calves, 5 to 10 months
old, from Record of Merit cows,
one from a 2 year old heifer with
a record of performance test of
8784 lbs. of milk in a year. They
will improve your herd. Write
for prices. O442849

### SUNNYDALE HOLSTEINS

FOR SALE, two bulls, 9 months old, with official record dams, price \$60 each. Also a few good cows in eaft by Duchland Sir as few good cows in eaft by Duchland Sir Hengerseld's Count De Kol, and Fletertie Hengerseld's Count De Kol, and Fletertie of the breed, the only sire of two daughters with records of over 33 lbs. butter in 7 days. Prices reasonable.

A. D. FOSTER, Bloomfield, Ont. Mention Farm and Dairy when writing.

### HOME-BRED AND IMPORTED HOLSTEINS



# SHEEP AND SWINE

BERKSHIRES AND TAMWORTHS Choice Berkshire Boars fit for service and sows ready to breed, by imported sire. Choice Tamworths, all ages, by a Toronto and London prize winning boar. Prices low, considering quality.

J. W. TODD, E-2 17-09
Maple Leaf Stock Farm Corinth, Ont.

# YORKSHIRES

A number of young boars from 4 to 6 menths old from imported large English stock. These are an exceptionally good tot of young pigs and will be sold right. Full particulars on request. Write for prices delivered at your station.

BULLS rising 2 years.

Apolic \*\*Apolic \*\*Ap

Apply Manager, FAIRVIEW FARM 0-9-1-09 LUMSDEN'S MILLS, QUE.

# PINE GROVE BERKSHIRES



For Sale are my winners at the late Winter Pair, Guelph, Sows bred and ready to breed; boars fit of both was engaged on the was engaged. Write your wants.

Georgetown, G.T.R., Milton, C.P.R., Halton Co. 0-6-9-09 W. W. BROWNRIDGE, Ashgrove

NITHSIDE STOCK FARM Large English Berkshires; Southdown Sheep and S. G. Dorking cockerels. Present offerings, two choice young boars, fit for service, Sows ready to breed. Also choice lot of S. G. Dorking cockerels, \$2 each. E. E. MARTIN, Prop.,

Paris station. Oxford Co. Canning P. 0.

# **AYRSHIRES**

### NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottawa, and Halifax. Long distance phone e-3-25-09 W. W. BALLANTYNE, Stratford, Ont.

SPRINGBROOK AYRSHIRES are large producer of milk, testing high in butter fat. Young stock for sale A few choice bull calves of 1908 ready to ship. Prices right. Write or call on

# e-4-1-09 W.F. Stephen, Huntingdon, Que.



ROBT. HUNTER & SONS Long distance phone.

Maxville, Ont. E 6-23-09

# BURNSIDE AYRSHIRES

Are in such demand I will make another importation. Will attend great dispersion sale of the avoid re-nowned Barcheske Herd of Mr. And. Will extra the avoid the control of the avoid the control of the R. R. NESS. Howick, Que.

STONEYCROFT STOCK FARM Harold M. Morgan, prop., Sts. Anne de Bellevue. Choice young Arrabire Bulls and heifers for sale Yorkshire pigs from imported Sires and Dams, alterary and March litters. Largest selection. High-est quality. Write for prices.

E 5-26-09 E. W. BJORKELAND, Manager.

# JUST BULLS



For sale 1 to 10 months old. Holsteins and Ayrshires. Great milking strains. GEO. RICE

Tillsonburg, Out.

# HUME FARM AYRSHIRES

a chance of a lifetime tor, the lifetime to get a good bargain; we also have a few young builts for service. Service and the service would be served by the service which the service works greatest the service which the service works greatest the service works grea

IMPERIAL STOCK FARM

Present offering-13 grandly bred Hol
Sires dam, Mercena &rd. 97.60 lbs. Butter in 7 days. D. Aborteck Mercona Point 1691).

Takys. Sire G. D. Alije Posh & th. 33.88 lbs. Butter in 7 day. Sire Holo & St. lbs. Butter in 7 day.

Butter in 7 days. Taky Holo & St. lbs. Butter in 7 days. at 37 yrs. old. 7 lbs. Butter in 7 days. at 37 yrs. old. 7 lbs. Butter in 7 days. At 37 yrs. old. 7 lbs. Butter in 37 days. At 37 yrs. old. 7 lbs. Butter in 37 days. Butter in 37

Harley Sta., G.T.R. W. H. SIMMONS, New Durham P.O. It is desirable to mention the name of this publication when writing to advertisers

J. A. GOVENLOCK, Forest, Ont. Herefords. Canada's greatest winners. Toronto and London, 1907-1908. Stock, all ages, for sale.

HARRISON BROS., Mt. Albert.—Hereford cattle, Oxford Down sheep. Stock for sale at all times. e-5-23-19 JOS. FEATHERSTONE & SON, Streetsville, Ont. Large Yorkshirk Hogs for sale. E-11-09 It is desirable to mention the name of this publication when writing to advertisers

**Breeders' Directory** 

CARDS under this head inserted at the rate of \$6.00 a line a year. No card

ABRAM EASTON, Appleby, Ont., Leicester sheep. Show ring and breeding stock for calls.

JAS. BEGG, ST. THOMAS, AYESHIRES, Standard for this herd is 40 lbs. milk per day, No culls. e-groce calls.

QUEBEC

L'ISLET CO., QUE.

CUEBCO
LISLET.—It will be of interest to Farm and Dality readers to have notes from this sex clusters of the property of the p

ONTARIO

PRESCOTT CO., ONT.

VANKLEEK HILL—Telegraph, telephone and electric wires are all out of business as a relief of recent te storms. In many places old of recent ten storms. In many places old of the ph lines have a large proportion of the ph lines have a large proportion of the ph lines have a large proportion of trees. Young apple trees have stood it better than older larger trees have stood it better than older larger trees. Many of the latter are badly broken. Feed is rather scarce with a good many farmers but hay can be bought at \$430 to \$12. Hran is now \$24 a ton; shorts \$250. Than is now \$24 a ton; shorts \$250. Than is now \$25 a ton; shorts \$250. The \$450. The storms are larger than the property of \$250. The storms are larger to \$250. The scarce of \$250. The storms are larger and there are the scenario to be after and there exems to be a time? VANKLEEK HILL-Telegraph, telephon-

HASTINGS CO., ONT.

ELDORADO.—We hear the axe and saw in nearly every farmers' woods. Farmers are picking up the down wood and fallen are personally as the same property of the same and the same ELDORADO.—We hear the axe and saw nearly every farmers' woods. Farmers before the lambing season, as they cause weak lambs. F. A. C.

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.

EDVILLE. — The business of raising hogs and selling them alive to drovers for market, is getting to be quite a large business, notwithstanding the high price of the control of

VICTORIA CO., ONT.

BOBCAYGEON.—The scarcity of feed has been intensified by the scarcity of water, but the recent rain has relieved many

O'R FARMERS' CLUB of the future. The continued fine and not very cold weather is wearing away the winter. The sleighing has been good until recently.—W. T.

HALIBURTON CO., ONT.

HALIBURTON CO., ONT.

IRONDALE—There is very little snow left on the fields after the thaw of the last few days. Some of the creeks are overflowed and a great amount of water has scaked into the ground. We had three days rain, with some thunder and thick fog.—J. P. H.

three days rain, with some thunder and thick fog.-J. P. H.

BRANT CO., ONT.

FALKLIAND.—For a while the bare condition of the ground, made farmers any control of the ground, made farmers any control of the ground, made farmers any control of the ground o

WATERLOO CO. ONT.

WATERLOO CO. ONT.

WATERLOO CO. ONT.

AYR.—We are having peculiar winter
weather, spring weather, we might say.
The snow has all disappeared, and the
The snow has all disappeared, and the
The rivers have all out of the ground.
The rivers have not as yet done much buyselves of the opportunity. The cattle
buyers have not as yet done much buyselves of the opportunity. The cattle
buyers have not as yet done much buycattle have not as yet done much buycattle have not as yet done much buyselves of the opportunity. The cattle
buyers have not as yet done much buycattle have not as yet done much buyis rather duil, the local turnip market
is rather duil, the local turnip market
is cather duil, the local turnip
in January, and a few availed the
interior market
is cather duil, the local turnip
is

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.

ELOBA.—As anticipated earlier in the season, the prices for cattle have improved. Hay and grain have not. Consequently farmers will feel more confidence in the business of feeding, but the danger is that state to propertive high prices, some may attent to property and the season of the s

SELLS LIKE SIXTY \$65 GILSON ENGINE hines, etc. FEEE TRIAL Askfor catalog BILSON MFG. CO. 101 York St. GUELPH, ONT

FARMS, HOUSES AND LOTS FOR SALE BLEWETT & MIDDLETON, 42: George St., Peterboro.

For Farms, Houses, Lots CONSULT BELL AND TAYLOR

Write for Lists of FARMS, HOMES, BUSINESS PLACES J. T. O'CONNELL & CO.

# IVE HOGS

We are buyers each week of Live Hogs at market prices. I For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you. THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$6.75 a Cwt.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH,

OXFORD CO., ONT.

NORWICH.—The farmers are busy cut-ting their year's supply of wood and drawing their manure. Some put the man-ure in heaps but the majority spread it. Cattle and horses are looking fairly it. Cattle and horses are looking fairly well, and everybody seems to have plenty of coarse feed. Hogs are worth \$6.25 a cwt. Bran is worth \$23, shorts, \$25 a ton. Creamery butter is selling slow at 26c a lb.—B. G. P.

BRUCE CO., ONT.

BRUCE.—We have had one of the finest winters up to Jan. 21st that we have ever had. The snow came on early in Dec., and there has been excellent sleighing ever since, until now, it has turned quite and there has been excellent sleighting ever since, until now, it has turned quite warm. It is more like spring to-day than the end of Jan. The sleighting is nearly all gone as the snow has not been deep all gone as the snow has not been deep the most successful by the day of the meetings that has ever been held here. A branch of the Women's Institute was formed about a year ago. It is in a flour-ishing condition, and they had much to do with the success of the present meet-ling—J. E. L.

MUSKOKA DISTRICT, ONT. BRACEBRIDGE.—The silo that we built and filled last fall is a great success. Being "greenhorns" at the business, we, as may be imagined, are greatly pleased

rate of Soda NITRATE SOLD IN ORIGINAL BAGS

The Nitrate Agencies Company

Toronto, Canada

or All Quantities Promptly Filled--Write for Quotation with the success of our ensilage. Our cattle in the stables are nonicomfortable. The system of ventilation in our stable must be good, for with 45 head of cattle and eight horses in the one building, the analysis of the stable is as pure as it is almost up to the stable is as pure as it is almost up splendidly. We are having a splendid whiter, only one or two really gold spells, and then it did not affect us, as no frost got into our stables, and our as no frost got into our stables, and our cold morningle as in the milder weather. J. J. B.

- HULL, - BRANTFORD

PERFECTION Seed & Grain Separator (Patented 1901)

THE TEMPLIN MFG. GO., FERCUS, ONTARIO

# THE STICKNEY

GASOLINE ENGINE Simplicity A Boy can start and run it JUST MADE HARD WORK

OUTSIDE IGNITER ALWAYS COOL COMPETITION DEFIED

Ont. Wind Engine & Pump Co. Ltd. TORONTO



# PETER HAMILTON Corn and Straw Cutters

are the safest, strongest, easiest to operate and best cutters made.

PLOWS Farmers everywhere testify to the splendid work of our plows

Better Get One Send for Catalogue

The Peter Hamilton Co. Peterborough, - Ontario

Proc

Amo Watson Frank Horton A. D. B A. D. B S. Strai son, Th J. K. N vin, G. A. B. ( Move Galley The was req

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# RADERS B

of Canada

\$525,681 99

Proceedings of the Twenty-Fourth Annual General Meeting of Shareholders

# HELD AT BANKING HOUSE IN TORONTO

Statement of the Result of the Business of the Bank for the Twelve Months Ending Jist December, 1968. The net profits for the twelve months after making provision for bad

| and doubtful debts and reserving accrued interest, amounted to Premium on New Stock Balance at credit of Profit and Loss last year  | \$500,217<br>100<br>25,364  | 00                               |
|---|---|----------------------------------|
| Appropriated as follows, vis.:  Dividend No. 48, quarterly, at the rate of 7 per cent. per annum.  Dividend No. 49, quarterly, at the rate of 7 per cent. per annum  Dividend No. 50, quarterly, at the rate of 7 per cent. per annum  Dividend No. 51, quarterly, at the rate of 7 per cent. per annum  Written off Bank Premises and Furniture  Transferred to Officers Guarantee Fund.  Transferred to Officers Pension Fund  Balance at Credit of Profit and Loss new account | \$525,681<br>\$76,168<br>76,174<br>76,178<br>76,178<br>20,000<br>5,000<br>190,982 | 29<br>11<br>44<br>66<br>00<br>00 |

# GENERAL STATEMENT, 31st DECEMBER, 1908.

| Capital Stock paid as LIABILITIES. | 18.  |                      |        |    |
|------------------------------------|--|----------------------|--------|----|
| Capital Stock paid up              | 2,000,000<br>76,178<br>406<br>8,786<br>100,000 | 00<br>66<br>27<br>80 |        |    |
| Notes of the Bank in circulation   | 2,600,905                                      | \$6,6                | 29,946 | 22 |

lepos s bearing interest, includ-ing interest accrued to date.....\$21,285,685 00 Deposits not bearing interest ...... 4,009,432 02 Balance due to other Banks in Canada .......
Deposits from Banks in U. S. ..... \$25,385,.117 02 229,600 21 -28,229,644 11

|  | -           |    |
|--|-------------|----|
|  | 34,859,590  | 33 |
| ASSETS.  |             | _  |
| Gold and Silver coin august  |             |    |
| Gold and Silver coin current   |             |    |
| Dominion Government Demand Notes         466,327 to           Notes of and Cheques on other Banks         2,832,234 to           Balance Due from other Banks         771,815 to |             |    |
| Ralance Day Cheques on other Banks   |             |    |
| Balance Due from other Banks   |             |    |
| balance due from Foreign Agents 685,292 40   |             |    |
| Dominion and Provincial Communication  |             |    |
| Ballway and other Ronds Debenture South Lies 614.884 83  |             |    |
| Call and Short Loans on Stocks, Bonds and other Securities. 1,871,773 93   |             |    |
| block boans on Stocks, Bonds and other Securities 1871 778 as  |             |    |
| Bills 44   |             |    |
| Bills discounted current   | - 9,150,843 | 17 |
| Notes discounted overdue (estimated loss provided for) 23,512,673 63 Loans to other Banks segment  |             |    |
| Loans to other Banks secured   |             |    |
| Deposit with Dominion Government 6   |             |    |
| Deposit with Dominion Government for security of general  23,532 66  |             |    |
| Bank Note Circulation  |             |    |
|  |             |    |

Bank Note Circulation

Real Estate, the property of the Bank (other than the Bank

Premises

Rank Premises (including safe, etc.).

Morigages on Real Estate sold by Bank. 1,991,808 89 25,708,747 16

STUART STRATHY, General Manager. Toronto, 31st December, 1908.

The General Manager, having read the foregoing report, made the following

comments.

From the elatement submitted, it will be observed that the results of the year's operations have been satisfactory, notwithstanding the severe financial disturbance, which was fee more or less throughout the world during the period under review. The wave of more or less throughout the world during the period under review. The wave of several return paper with group prospects of a general return paper with group respects of a general return paper with group to the world with group to the several lines of business. A brief consideration of the yearly sand conditions in several lines of business. A brief consideration of the yearly sand with group to the several lines of the profits. The making allowance for all probable contingencies, and several interest to all lines accounts, amount to \$800,217.60. Adding to this this previous derived its making allowance for all probable contingencies, and several interest to all lines accounts, amount to \$800,217.60. Adding to this this previous derived its making allowance for all probable contingencies, and several profits of the profits of the several paper of the profits of the profits of the several paper of the profits o

cent. per annum, amounting to \$304,599.56. \$300,000 has been written off bank premises and furniture accounts, and \$10,000 has been added to the Officers' Guarantee and Pension Fund, leaving the substantial sum of \$190,962.49 to be carried forward to the credit of Profit and Loss new account.

The paid-up Capital Stock of the Bank amounts to \$4,555,592 dt the Rest Account \$2,000,000, and the Rest Account ..... nearly one-half of the Paid-up Capital.

nearly one-half of the Pad-up Capital.

The total deposits of the Bank now amount to over

Of this sum over \$4,00.000 non-interest bearing, and the total deposits of the
Bank have increased \$2,00.000 non-interest bearing, and the total deposits of the
The assets, which are immediately available, amount to over nine millions of dollars, being about thirty per cent of the liabilities to the public, a condition which
particular the properties of the second of t

Paid-up Capital ... ... \$ 700,000 8 4.353.592 Surplus Deposits . Circulation

meet with your approval.

Before concluding, I wish to express my appreciation of the cordial co operation
of all the officials of the Bank in the work of the year. All the books and does
ments of the Bank have been
ments of the Bank have been looked into, and "sported upon in a manner permitting the Board to
deal intelligently with all the assets of the Bank.

Mr. C. D. Warson, Bank and the admits of the Bank.

Mr. C. D. Warren, President, in moving the adoption of the Report, said:

I have much pleasure in moving the adoption of the Report, which has been presented. The Management and shareholders may well congravation to the result of the presented of the Management and shareholders may well congravation of the result of the present and the present and the present of the present of the period of the prospective which Canada enjoyed until about a year ago, led to extensive, and in prospective which Canada enjoyed until about a year ago, led to extensive, and the prospective which Canada enjoyed until about a year ago, led to extensive, and the prospective which canada enjoyed until about a year ago, led to extensive, and the prospective which we have a supplication of the prospective which we have a supplication of the present the same and the present the control of the present the present the present the present the average results increase in the amount of comparatively idle money bensiese undertakings and profits. Last year was, therefore, not to be regarded as one favorable to profitable profits. Last year was, therefore, not to be regarded as one favorable to profits of the Mr. C. D. Warren, President, in moving the adoption of the Report, said:

very satisfactory.

A growing country, like Canada, with unbounded resources, naturally has great
power of recuperation. Trade depression consequently affected Canada less than
almost any other country as result, commercial and manufacturing interests are rapidly recovering from the great consequence of the recovering from the resource of the recovering trade of the recovering from the resource of the recovering trade of the recover

snow renewed vigor and vitality. The agricultural returns from the Dominion for 1985, indicate a large yield of grain and other crops, and this condition tends materially to create business confidence. With the prospect of fair prices of fair prices are present the property from its natural products, commercial undertakings in the wealth of the country from its natural products, commercial undertaking and receives a great impension of the production of the product of

the same level.

The lumber industry, one of the great National sources of wealth, is rapidly reviving, and increased activity in railway extension and incidental enterprises, has
given a new impulse to our iron and stee mining interests now call for
longs outlays for operation, and our trade, increasing in the property of the pro

The employment of money is absolutely necessary for current operations, and as these are now extending in all directions, it is not unreasonable to look forward to several years of prosperous descriptions of prosperous control in the interests I have briefly mentioned as well as others that readily suggested embelves, our Banking and financial institutions, may expect a largely increased much of business, and a ready and safe outlet for all their surplus money during the precent year.

outlet for all their surplus money during the present year.

The Northess is extending its cultivated area, and is being opened to the people by means of great trunk railway lines, and many local extensions. Here we have the results of the country but the products of does not add materially to see the results. The mere interchange or investment of accountry but the products of the soil, the forest and the results and additional capital, most of lar Institutiona. By keeping a constant and energetic body out, we hope to obtain a hare of the handling of this increased wealth, look out, we hope to obtain the hare of the handling of this increased wealth, look out, we hope to obtain the hare of the handling of this increased wealth look out, we hope to obtain the hare of the handling of this increased wealth look out, we hope to obtain the hare of the handling of this increased wealth look out, we hope to obtain the hare of the handling of this increased wealth look out we hope to obtain a surple of the handling of this increased wealth look out the wealth look out the wealth look out the surple of the present the look of the present look out the pres

and circumstances permit.

Whilst the value of money chiefly depends on the conditions of the great financial centres of the world, there are many local demands which affect the money market here. It is true the money of the world, there are many local debentures, principally, find a market in Great Britain. Corporation bonomicing debentures, principally, find a market the abroad, but much of the cash resulting therefrom, solicities, etc., are largely sold abroad, but much of the cash resulting therefrom, solicities of the practical situation more forcibly. I might up to bank eventually. To mich and the practical situation more forcibly, I might up the value of Music Population and the property of the propert

view, therefore, of the growth of our transportation and transmission lines, and the development of municipal works, in every town and city in the Dominion, and the large foreign capital which will be brought into this country for the development of municipal works, in every town and city in the Dominion, and the large foreign capital which will be brought into this country for the country must be carried on deposit, but a greater demand for those local needs which cannot be supplied through foreign Agencies. The great industries of the country must be carried on deposit, but a greater demand for those local needs which cannot be supplied through foreign Agencies. The great industries of the country must be carried on availed themselves of every favorable opportunity to meet. the of Directors have availed themselves of every favorable opportunity to meet. the of Directors have availed themselves of every favorable opportunity to meet. The capital countries and thereby locking up a large amount of unproductive money in the treasury, we and thereby locking up a large amount of unproductive money in the treasury, we have a sufficiently approximately and the countries of the countr

to bear in the performance of their cuttes.

I am glad to be able to state that every part of the Head Office building is rented, yielding a good return, and there does not appear to be any doubt as to this condition being continuous. The same satisfactory state of affairs exists in regard to the Yonge and Bloor Streets Office.

We hope that before long, the result of the careful attention and efforts of your Directors and the management may reach the Shareholders in a substantial

We hope that before long, the result of the careful attention and efforts of We hope that before long, the result of the careful attention and efforts of and gratifying manner.

I move the report be adopted.

The Vice-President, Hon. J. B. Stration, seconded the motion, and said—The ground has been pretty thoroughly covered by the remarks of the General Manager and the President; but I can at least re-echo the congratulations and repeat the expression of pleasure which the report warrants.

and repeat the expression of pleasure which the report warrants to be expected from their high standing, high sessure of office. This was to be expected from their high standing, high sessure of office. This was to be expected from their high standing, high sessure of office of the sides, they are among the largest holders of stock, and are, therefore, that most directly and largely interested. Any indifferent or perfunctory performance of service or duty on their part would naturally more prejudicially affect them than shareholders with less interest at stake. It is certain, therefore, that when the responsible officers of the Bankare so directly and personally interested, than 1,800 shareholders, many of whom east saministration. The Bank has more than 1,800 shareholders, many of whom east saministration. The Bank has more which its stability and excellent management inspire.

The business of the Bank is expanding in every direction: and it is the aim of the Directors to keep the Traders Bank abreast of the great progress this Dominion is making. Of this, its past is a grarantee, which the year just satisfactory, to see excurtion strengthened, an easiered, to see business and profus satisfactory, to see excurtion strengthened, are alreved, to see business and profus satisfactory, to see excurition strengthened, are alreved, to see business and profus satisfactory, to see exercities strengthened, are alreved, to see business and profus satisfactory, to see exercities strengthened, are alreved, to see business and profus sat

rf.
The motion for the adoption of the report was carried unanimously.
Moved by Mr. R. M. Gilkinson, seconded by Mr. George Watson, that the
anks of the shareholders are due, and are hereby tendered, to the President,
ce-President, and Directors of the Bank for their attention to the interests

Vice-President, and Directors of the Bank to useful statement to the President, of the Bank during the past year—Carried.

Moved by Hon. J. R. Stratton, seconded by Mr. E. F. B. Johnston, that the thanks of the Directors and Shareholders are due, and are hereby tendered, to the General Manager, the Assistant General Manager, and the staff of the Bank, for their diligent attention to the interests of the Bank during the past year—Carried of the Bank and the staff of the Bank, for their diligent attention to the interests of the Bank during the past year—Carried of the Bank and the staff of the Bank and the staff of the Bank and the staff of the Bank for their diligent the staff of the Bank for the diligent the staff of the Bank for the diligent the staff of the Bank for the B

The Scrutineers reported the following gentlemen duly elected to act as Directors for the ensuing year, vis., C. D. Warren, Hon. J. B. Stratton, C. Kloepfer, (Guelph), W. J. Shepherd (Waubaushene), C. S. Wilcox (Hamilton), E. F. B. Johnston, K. C., H. S. Strathy,

The meeting then adjourned.

At a subsequent meeting of the newly-elected Directors, Mr. O. D. Warren was elected President, and Hon. J. R. Stratton, Vice-President, by an unanimous vote. STUART STRATHY, General Manager.
The Traders Bank of Canada, Toronto, 26th January, 1909.

COSSIP

RAISE YOUR CALYES WITHOUT MILK
It is very important for the dairy farmust be complete food, and most of all it
is very important for the dairy farmust be must be complete food, and most of all it
must be must be the form of the form o

Briggs Seed Co., Limited, Toronto, Ont. will procure a valuable pamphlet for the farmer entitled "How to raise Calve Cheaply and Successfully without Milk," and every farmer should have one.

### HOLSTEIN FRIESIAN NEWS

The Canadian Dairyman and Farming World is the official organ of The Canadian Holstein-Priesian Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

Ed. Farm and Dairy.—In noting the results of the Dairy Herd Competition, it seems to me that the following facts stand out plainly and should be heeded.

As the competition of the competition.

The first herd were just grades, and the last, grade of the competition, the first herd were just grades, and the last, grade Shorthorns.

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# POULTRY BOOKS

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MAKING POULTRY PAY
Amound of practical information on
Paramation of practical information on
Paramatical side of poultry raising, and
takes up every detail of this business
thoroughly and systematically. The
how to keep poultry at a profil. It tells
what to do, why to do it, and how to do
it. Frotusely illustrated.

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OULTRY ORAFT

A convenient and systematically asranged work for beginners as well as for
experienced poultry raisers. It gives the
gist of the best, knowledge of poultry
culture in plain language for people who
have been plain facts and trustworthy opinions. Illustrated.

272 Pages, Cloth. Price, postpaid, \$1.50 We have a large number of other books on poultry and poultry raising. Write for Catalogue.

Book Dep FARM AND DAIRY PETERBORO, ONT.

In the creamery patrons' competition, the first herd were just grades, and the last, grade Shorthoras, with earnings, of \$3,070 a cow. I suppose the three Shorthorn herds were supposed to be good herds, too, or they would not have been been supposed to be good herds, too, or they would not have been cliedly doubtful), at the end of a row, life, say eight years, the owner will lose for aix milking years \$3,00 a year, or \$225.80. Singular, isn't it that any person after realizing these facts, will use the so-called milking Shorthorns.

The state of the state o

## POULTRY REVIEW GANADIAN

Published the 1st of each month

### HE BIG 4

Entire Farm, Garden, Poultry and

FARM AND DAIRY

Apper for farmers and dairymen. It is published every week in they are and is an all round has been appeared by the second of th \$1.00

reatures. Subscription price, One year. In Book THE CAMADIAN POULTTY REVIEW is the acknowledged peer of all American and Canadian. Poultry Journals. It is published punctually on the first of each month. Contains from 48 to 72 pages also was congraving from the plan. Peeper of all shows, engraving from the plan of the property of all shows, engraving from the plan of publication. One year.

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THE CANADIAN HORTICULTURIST—is the
ply paper in Canada devoted to Fruit, Flower and
egotable Growing. It is issued monthly, is prosely illustrated, and numbers among its contritors the leading Horticultural Authorities in
anada. Its fruit crop reports are a special feature.
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FARM AND DAIRY PETERBORO, ONT.

FARM AND DAIRY PETERBORO, ONT Published Every Wednesday

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GOSSIP

HARRISON BROS HEREFORDS

A visit to the stables of Harrison Bros, at Mr. Albert, Ont., on the Grand Trunk

And Canadian Northern railroads, is enough to convince anyone that the Heresough to convince anyone that the Heresheep than which has won numeral results of results of the converse of

# Lightning LOCK S

SAFE LOCK SHINGLES are the only shingles that-Give you a positive guaranty

against Lightning, backed up

by a policy signed and guaranteed by the manufacturers. 2. Meet fully the rigid requirements of the British Govern-ment for Public work.

Lock on four sides, and cannot

Completely protect nails from

Have edges galvanized after

4. Have three (3) thicknesses of metal along upper edge at

point of greatest strain.

being cut to exact size.

be pulled apart.

VERY Canadian farmer who expects to build or re-roof his house or barn should write us to-day for details of our Free Lightning Insurance Policy in onnection with Safe Lock Metal hingles. Shingles.

We give it to you without any con ditions whatsoever, except that you roof with Safe Lock Shingles. that you

Foor with Sake Lock Sningles.

Such an offer is unprecedented, but we can afford to make it because we know absolutely that Safe Lock Shingles will insure safety from

Shingles will insure safety from lightning.
It is absolutely free. You do not have to pay one cent for this protection, either directly or indirectly.
Insurance records show that nearly one-half the fire losses on barns in Canada result from lightning. This loss, running into the hundreds of thousands of dollars, can be entirely prevented if Safe Lock Shingles are used.

used.

We know this, and we back up our statement with a Free Insurance Policy payable under its terms in cash. Safe Lock Shingles are sold at the same price as shingles known to be inferior in quality of steel, galvanizing and construction.

have been manufacturing Safe We have been manufacturing Safe Lock Shingles for over ten years, and roofs laid when we started in business are still "as good as new," to quote from hundreds of letters we have on file in our office from our pleased and stringly metamors. satisfied customers.

In all this time these roofs have not cost one cent for repairs of any sort. In all these years no building covered with Safe Lock Roofing has ever hear destroyed by Lichting een destroyed by lightning.

Do you know that Sate Loca Shingles fully meet the rigid require-ments of the British Government for Admiralty and other public service, Think what that means. Let us illusknow that Safe Lock

Every farmer knows from experience Every farmer knows from experience that ordinary galvanized fencing seldom lasts longer than two or three years without showing signs of rust. On the other hand, galvanized wire for Government use gives years and years of service, owing to the splendid galvanizing insisted upon.

Safe Lock Shindles are columnized.

Lock Shingles in use for more than

thus causing a leaky roof.

To-day we are using better material in their construction than ever,
the steel is of higher grade, and the
galvanizing is leavier. We have
also made several improvements in
manufacturing. For instance, every
simple is et a caccurately to size besimple is even a control to the size of t ial in their construction than ever, the steel is of higher grade, and the galvanting is heavier. We have also made several improvements in manufacturing. For instance, every shingle is cut accurately to size before it is galvanized, thus protecting the edges of the shingles instead of leaving them raw annies. leaving them raw and exposed to the decaying action of moisture.

F10. 1

aving them raw and exposed to In Fig. 1 the solid black line decaying action of moisture. Shows the top lock, the shaded line the bottom lock. Notice that a Notice that a

due to heat and cold. cannot unlock.

Illustrations 3, 4 and 5 show the instruction of other metal shingles.

Free Book

about Roofing"

4

3 is the old-fashioned cleat No. 3 is the old-fashioned clear shingle now almost entirely driven from the market by the Safe Lock. These do not always shed water, and it is almost impossible to keep them from leaking after they have been on for a season or two.

F10. 4

Note in No. 4 that the nail is only about half way driven into the sheeting, leaving a large surface exposed to the weather. This makes a very insecure fastening for a roof, and this is still further weakened by the springing the steel, which has tendency to pull on the steel when the steel when the steel when the steel was the steel was

Fig. 5 No. 5 is a side slip pattern, similar to many now on the market. The one shingle slips into the other, but does not lock. Shingles constructed in this way pull apart easily and must not be confused with the positive lock in our Safe Lock Shingles, as shown in

our Safe Lock Shingles, as shown in Fig. 2. Safe Lock Shingles are absolutely uniform. We awe spent time and money to perfect their construction, which is fully protected by patent. They are we easier than ever to lay, and a Safe Lock roof cannot leak, if the silipse are laid in accordance with our printed instructions.

weather.

name Safe Lock. No other shingle double fold forms the top lock inshas that name.

No other shingle is a Safe Lock Shingles lock positively shingles lock positively for all four sides. Other shingles grip only on two sides. This is not enough for a permanent, and the sheeting, are protected by the sheeting are protected by the sheeting are protected by the sheeting sook construction from any buildings covered with these shingles being entirely unrounded in Pro. \*\* that ordinary galvanized feneing seldon in the ordinary galvanized feneing seldon in the other hand, galvanized wire on all four sides. This will be safe Lock Shingles lock positively are with the other hand, galvanized wire point of Government use gives years and years of service, owing to the splendid pours of service, owing to the splendid pours of service, owing to the splendid pours of service, owing to the splendid pour of the same as Government wire, and therefore may be depended upon to find the splendid pour of the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire, and therefore may be depended upon to the same as Government wire and the same as Government wire as Governmen

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The Metal Shingle

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| Canada                         | Dover Street Pactor  |
| ver St. Factory<br>eston, Ont. | Please send me your book!  |
| inch Factory                   | full particulars of your Free Sa<br>Lock Lightning Insurance Policy. |
| ntreal His 1                   | expect to build a  |
|                                |  |

State when you propose to build.

Province.....

# Every Owner of a Peerless Incubator and Brooder gets the Free advice and help of the Peerless Poultryfor-Profit Club and a chance to compete for the \$510.00 in Cash Prizes







# The Peerless Poultryfor-Profit Club Offers free advice and help to every Canadian farmer

E VERY farmer in Canada should raise poultry.

You will never realize what big money there is in this department of your farm until you start raising poultry right.

It has been estimated by an authority that the value of the table poultry and eggs produced by Canadian farmers during the year 1908 amounted to \$25,750,000.

Yet the supply was not sufficient to meet the demand.

You should get your share of this money. You can if you raise poultry right-raise poultry under the advice and with the help of the Peerless Poultry-for-Profit Club.

Every purchaser of a Peerless Incubator-every one who owns a Peerless Incubator now becomes a member of the Peerless Poultry-for-Profit Club without paying one cent and is entitled to advice and help absolutely free.

This advice deals with every problem that may come up in poultry raising and is given by experts who are raising poultry now and making money out of it.

The first step towards becoming a member of the Peerless Poultry-for-Profit Club is to write for our bookest "When Poultry Pays." Write for it to-day and start raising poultry right-profitably.

The Peerless-the most successful Incubator because it is built to suit Canadian conditions and climate



7E who make the Peerless Incubators are closely allied with the largest and most successful poultry farm in the Dominion-the Poultry Yards of Canada,

It was raising poultry on this farm, looking for every means to make it more successful, more profitable, that induced us to produce the Peerless Incubator.

We tested every incubator on the market-gave each one a thorough and careful trial.

Not one of them came up to the standard which we were looking for. The best United States machines failed because they were not built to suit Canada's climate. The Canadian incubators were mere copies of obsolete United States machines-built to sell not to hatch chicks.

So we built the Peerless Incubators and brooders out of the knowledge and experience which actual poultry raising in Canada taught us.

Write for our booklet "When Poultry Pays"-it tells the whole story.

# Why don't you try for one of the 103 Cash Prizes which we offer Canadian farmers?

Y E want to help the farmers of Canada raise more poultry and make more money out of it.

We want them to investigate the poultry department of their farms and see what big money they can make out of it if they go about it right.

For this reason we offer 103 prizes to the farmers of Canada who meet with the best results in poultry raising.

The prizes are as follows:

# First prize \$100.00 Second prize \$50.00 Third prize \$25.00

Ten prizes of \$10.00 each, twenty prizes of \$5.00 each, twenty prizes of \$3.00 each, twenty-five prizes of \$2.00 each, and twenty-five prizes of \$1.00 each, making a total of \$510.

Professor

Chief of the Government Poultry Depart-A. G. Gilbert | ment at Ottawa, has kindly consented to

act as judge and when the winners are decided upon the names will be published in this journal. This competition is open to every owner of a Peerless Incubator. Write to-day for full particulars of the

We ship the Peerless Freight prepaid.

LEE Manufacturing Co., Limited, 384 Pembroke St., Pembroke, Ontario, Canada