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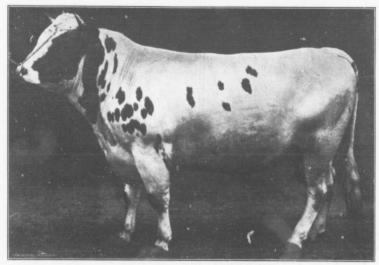
NUMBER 50

# RURALAOME

PETERBORO, ONT.

DECEMBER 16.

1909



WHEN SELECTING A DAIRY BULL LET NOT PRICE BE THE MAIN CONSIDERATION In so far as is consistent one should make price the last consideration when selecting a dairy bull. The individual and his breeding—his ancestry—is what counts. If bred from a high producing dam got from heavy milking stock a bull is reasonably certain to pass on such characteristics to his progeny. The difference between a good cow and a poor cow is so great that heifers from a richly bred bull will soon return their sire's purchase price.

Lord Cornelius Teusen, 6745, illustrated above, and owned by The Trethewey Model Farm, is a grand individual and meets the requirements looked for.

DEVOTED TO

BETTER FARMING AND GANADIAN GOUNTRY LIFE

# IT DOES MORE WORK



If you were going to hire a man, and had two applicants, each asking the same wages, but one of whom could do nearly twice as much work as the other, which one would you hire?

There is the same principle to be taken into consideration when buying a cream separator. You want a machine that will do good work and do it quickly. Your time is worth money, whether you are turning a cream separator or doing some other work. The way to save time is to buy a machine that has the highest efficiency.

Experience has shown that the most efficient separating device is the LINK BLADE DEVICE, as used in the "SIMPLEX" cream separator. This explains why the "SIMPLEX" separator is such a favorite with the large dairymen. They realize the value of having a machine that will do the work quickly, and at the same time do it well. Is YOUR time worth anything?

Learn more about the "Simplex" bowl, the bowl that does the most work. Write for free illustrated booklet, to

# D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT.

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WE WANT AGENTS IN EVERY DISTRICT

# THE "BT" STANCHION IS ALWAYS CHOSEN



It is made in five sizes and of heavy "to-Bar. The lock and trip are made of heavy malleable, it can be easily opened with one hand and is the only stanchion that can be hand and is the only stanchion that can be hand and is the only stanchion that can be hand and is the only stanchion that can be hand in the only stanchion that is putting against it. It is sufficient to the with wood or steel construction. It will pay you to let us tell you about: "BT Steel Stalls and Stanchions and what we can do for you. Write us to day."

e also build Litter Carrier and BEATTY BROS., FERGUS

FIG 91

### The Maritime Winter Fair

Owing to the large number of extended reports to be featured this week it has been found necessary to hold our special report of the Maritime Winter Fair, at Amherst, N.S., during the second week in December, until next week until next week.

until next week.
Farm and Dairy's special representative, Mr. W. F. Stephen of Huntingdon, who was at the Fair, reports it
to have been the most successful yet
held. There was a larger number of
entries of live stock of higher quality
entries of live stock of higher quality
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taxed the limit of the Fair Building, with its new annex, to the utmost. Earl Grey officially opened the Fair. Logan Brox! cow, Maple Grove Louise De Kol won the silver cup val. Logan Brox! cow, Moultreal. Cecil T. Coates won the champion steer prize for Shorthorns and Amos Fowler, the Pugsley cup for the best grade steer.

### To Change Date of Meeting

It was decided at the annual meeting of the Ontario Agricultural and Experimensal Union held at the O.A.C., Guelbh, last week, and which is reported fully on page 16, that whereas it is now difficult for many to attend the early sessions of the Union, which for a number of years has opened on Monday, and owing to the many other attractions at Guelph during the Winter Fair week, it would be advisable to change the date of the annual meeting in forth-coming years, to some date in January, either at the beginning or at the close of the short course. It was decided at the annual meet-

er at the bearing the short course, the short course, motion which was moved seconded the short course.

The motion which was moved by Prof. C. A. Zavitz and seconded by J. O. Laird, the president of the Union for the year just closed was submitted to the members and carried

### To Reforest Waste Areas

Although it was made on a most conservative basis, a plan of reforest-ation, whereby the counties of Dur-ham and Northumberland would be able in from 40 to 75 years to pay all able in from 40 to 75 years to pay all their municipal expenditures with the revenue derived from their waste lands was laid down by Dr. Fernow, Dean of the Faculty of Forestry, To-ronto University, at a special forestry meeting held in Cobourg, Ont., on Thursday last. The united counties' council of Durham and Northumber-land is the first, and as yet the only council that has taken up in a ser-ious manner, the matter of dealing with its non-agricultural land. Pre-paration is being made to act upon paration is being made to act upon the suggestions made by Farm and Dairy that the county council should approach the Government to have

approach the Government to have these waste areas reforested.
Warden A. A. Powers to whom much credit is due for the intelligent and effective manner in which he has pushed this question, said that he had received a letter from the Minister of Agriculture, the Honorable James Duff, in which the Minister had assured him that since the united counties of Durham and Northumberland had been the first to take the matter up they would be the first to we to consideration. He stated that the matter us they would be the first to pt consideration. He stated that the Government would begin the taking of a census starting the third week in December of the lands within the counties to be reforested. Meetings had been arranged for at Pontymod. Organ and at Carllaton

Meetings had been arranged for at Pontypool, Orono and at Castleton to be addressed by Prof. E. J. Zavitz of the O.A.C., his addresses to be illustrated with lantern slides. "The Minister," asid Warden Powers, "astures us that he is prepared to act in this matter of reforesting if we wepared to ask him to take action."

In order to emphasize the value of timbered land as against land without timber lying in close proximity to the

waste areas in question. Ward Powers told of a statement made cently by Mr. Thos. Smith who li-two and a half miles north of L kard, that he had been offered 12 acres of second growth pine, wh 20 years ago consisted of merely pol-more money than an anount step. more money than an amount at which he valued the remaining 188 acres of his farm. Mayor Field of Cobourg who occupied the chair, laid particular emphasis upon the fact that anything embhasis upon the fact that anything seeking to improve the condition of the neighboring country and waste lands within the counties would help to up-build the business of the town as well as bring benefit to those directly interested in these lands.

rectly interested in these lands.

PUTS THE WORST FORWARD

Dr. Fernow in his address referred to his statements made before the convention in Cobourg last June (which address was published in Farm and Dairy, November 4), and emphasised the fact that France and Germany have secured returns unce phasised the fact that France and Germany have secured returns upon their investment in reforesting equal to eight or nine times the original exception of the reformance of t Germany have secured returns upor of the financier, i.e., putting the worst side forward so that if it then figured out to be a profitable scheme, the venture would be sure to be a

THE REVENUE FORECASTED

THE REFERENCE PORRESSING
His estimate was that, did the
counties adopt the plan as he suggested, they would in one to to 7.5
years secure a revenue from the renow waste areas, sufficient to the
thetal expenditures of the Counties. The Doctor urged that the
council grapple with the problem before them in a large way and adopt
the whole plan, not merely a piece
of it. From the interest already
aroused through the agritation in conmeetion with this problem, a German
meetion with this problem, a German
meetion with this problem, a German aroused through the agritation in con-nection with this problem, a German corporation had approached him seek-ing his advice as to the advisability of buying up this land and reforest-ing it as a private enterprise.

That the council in view of the facts as presented by Dr. Fernow, should adopt a comprehensive scheme of deal-ting with.

ing with these waste areas and placing them under forest management was urged by Mr. Chas. C. Nixon of Farm and Dairy. The proposition, he said, appeared to be a most practically one of the control of ticable one and if, from these waste lands, the united counties of Dur-ham and Northumberland could derive a revenue sufficient to cover their total expenditure, such a goal was well worth striving for.

Prepare Sap Roads.—This is the month to prepare the sap roads in the woods. Back to roads about the woods. Back to the sap either the same the sape the real will not have to the sape the ere will not have to the sape the ere will not have to the sape the ere will not have to the same time come as close as possible to every tree. With ase and shovel cut out all brush, old logs and saplings and shovel down the knolls and fill up the hollows before the severe froat and deep snow comes.—R. F. Whiteside, Victoria Co., Ont. Prepare Sap Roads.-This is

I have just received the pure bred I have just received the pure brea Berkshire pig sent me by Farm and Dairy, from Mr. Joshua Lawrence, Oxford Centre, Ont. It is a good pix and I am much pleased with it. I thank Farm and Dairy for sending me such a good premium.—A. J. Fer-guson, Glengarry Co., Ont.

Issu Each 1

Vol. 2

Defi It is to

the actual for three figures, it a quart of all increas 50 per cer to-day, th cured. N to 1902 th of milk w reasonably to the cos ing milk. costs some two to to half cents produce n ada to day fortunate t not more d Our people ing up to knowledge point, for the cost o duction w the profits business.

SUMMED The whole

economical duction can up in six man, cow, f water, exerc might add cleanliness

The man's make an e for the cow milk produc curious expe last few year an American music for th that music p ed the flow o set of chimes in the pastu these chimes was to increa Another man cows in summ of cleaning attentions we cow per day

While we m of increasing that we must we have neve

"The substance at the Guelph Wi

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

Vol. XXVIII.

FOR WEEK ENDING DECEMBER 16, 1909.

No. 50.

## THE ECONOMICAL FEEDING OF DAIRY COWS \*

Prof. H. H. Dean, O.A.C., Guelph, Ont.

### Definite Data as to the Cost of Producing Milk is lacking. Points of some curious Experiments. Some Advice of interest to all Cow Owners.

It is to be regretted that we know so little about the actual cost of producing milk. At the College for three years, 1896, 1897 and 1898, in round figures, it cost practically one cent to produce a quart of milk. Since then, food and labor have all increased so that it probably costs from 25 to 50 per cent., or more to produce a quart of milk to-day, than it did when these results were secured. New Jersey found in the seven years up to 1902 that it cost 2.37 cents to produce a quart of milk when charging up everything that could

reasonably be attached to the cost of producing milk. It probably costs somewhere from two to two and one half cents a quart to produce milk in Canada to day. It is unfortunate that we have not more definite data. Our people are wakening up to the need of knowledge on point, for as we lessen the cost of milk production we increase the profits of the dairy business.

#### SUMMED UP IN SIX WORDS

The whole question of economical milk production can be summed up in six words, the man, cow, feed, stable, water, exercise, and we might add a seventh, cleanliness

The man's part is to make an environment for the cow suitable for milk production. Some

curious experiments have been made within the last few years relative to this point. Mrs. Howie, an American lady has tried the plan of providing music for the cow at milking time. She found that music playing at the time of milking increased the flow of milk. A Chicago man purchased a set of chimes, which he attached to the cows while in the pasture. It is said that the music from these chimes was really entrancing and its effect was to increase the milk production of these cows. Another man provided cream-colored suits for his cows in summer time and resorted to the practice of cleaning their teeth daily. The result of his attentions were, it is said, two gallons increase a cow per day.

While we may question the merits of such means of increasing the milk flow, they point to the fact that we must make a study of cows in a way that we have never done before in this country. For

years we have preached that cows should not go such stores.

dry for more than from two to six weeks. It has been noted that the best results are often secured from a cow when she is given a rest of two months. Have we given this point study enough? In her period of rest, the cow is enabled to build up flesh and vitality. When "worked" for 11 1-2 months of each year, she has little opportunity to lay up REPLACING PART OF MEAL RATION Experiments in Denmark have revealed the fact

The Champion Steer of the Guelph Winter Fair and his owner, Mr. James Leask

This is the magnificent Shorthorn steer that last year at Guelph won first prize in his class as a calf.

Mr. Leask has disposed of him for \$225,

that a large percentage of the meal ration may be replaced with mangles and sugar beets. In some instances, I believe too much meal is fed to produce milk economically. The growing of mangels in this country has not been carried to the point it should be. Turnips have been grown to too large an extent.

When substituting a part of a meal ration with roots, the change should be made gradually and results in milk production noted. A cow being fed on large amounts of dry feed and meal is doing a lot of work. Roots tend to cool her blood and in this way give beneficial results besides being readily digested.

### THE CHEAPEST THINGS AVAILABLE

A recent writer said that fresh air never killed anybody. If dairymen would keep their cows as they ought to keep them, they would increase their milk production. The majority of stables, and it might be mentioned houses, also, are not provided with sufficient light and fresh air,-two of the cheapest things we can furnish.

I do not think that it will pay to put in expensive watering devices. Cows are better to go out to a trough to water, if the water Le not too cold. It will be better for their health in the long

#### IT PAYS TO GIVE EXERCISE

There are cows that are confined too closely for a long time. Some of our dairymen have followed the "no exercise" theory and practice to the extreme. This has had an ill effect upon their

We should study and work to produce milk economically and to get it cleanly; get more milk, cleaner milk, such as is more fitted for the average

Q .- Which would you prefer sugar beets or mangels?

A .- In feeding experiments, carried on at the College and elsewhere, mangles have been found to be quite equal to sugar beets.

Q.-Do you not think that warm water is better for the cow and that she will take more of it than she will of cold water?

A .- I don't believe that a cow relishes half warm water. We cannot ask a cow and find out her likes in this particular but I know that people when they want to quench their thirst prefer cool, fresh water. Water is needed to cool the body. There are special cases however, where warm water is advisable. As a general principle. however, it would appear that a cow prefers cold water.

Q.-Can you increase the fat in the milk of any particular cow? A.—No. Feeds have little or no influence on

the fat content of the milk although the milk fat will vary in percentage. Q.—How much meal should be fed to a cow?

A .- This is a question that each man must determine for himself. A feeder should experiment and find out how much meal and how much roots and other feed a cow can profitably make use of.

Q .- What is your opinion about silage?

A .- It is the cheapest bulky food that a farmer can produce for milk production. More corn can Le grown on an acre than is possible with any other fodder crop and the silo is the best place to keep it.

Q.—Which would you prefer, mangles or silage? A .- Pound for pound I would take the mangles. Corn silage however is more economical from the standpoint of production. The best results are obtained from combining the two.

\* The substance of an address delivered in the lecture room at the Guelph Winter Fair last week.

T. R. James, Middlesex Co., Ont.

Since silage is growing in favor with stockmen generally and more and more of it is being fed each year, it is interesting to review a somewhat extended experience with this fodder of fodders for the dairy cow. Years ago, when we first started to feed it, it was measured out to the cows by the bushel basketful. It was eaten with a relish. Other fodders, mainly straw, were fed along with the silage ration. Interested people for miles around called to see this feed, asked all manner of questions concerning it and dia actually examine all the cattles' mouths to ascertain if the silage was causing their teeth to drop out.

Many through information gained in this and in other ways became convinced that the silo was a good thing and forthwith they built silos. As years went by it was discovered that the silage did not give the results that were hoped for. This was particularly true of those years in which the corn failed to reach maturity. Some began to think that the silo was no good and they abandoned the use of it for a year or two.

It soon began to dawn upon those who were feeding silage however, that the mistake was not with the feed, but with the feeder. They were depending solely upon silage, and as they learned that it was a one sided ration and that it lacked in that constituent protein, without which we cannot secure a high milk production, they found that it was both advisable and necessary to balance up this food with fodders of a highly nitrogenous, or protein nature. This they did by means of clover hay, bran, oileake and such grains as were available.

Instead of alloting to each cow a bushel basket of silage as we first practised this quantity is now distributed to two cattle and sometimes to three. Roots, the place of which had been taken by the silage, are now again grown in quantities and fed along with silage. Under this latter system of feeding much better results are obtained.

In the last two years, the ration that we feed has been cheapened through the introduction of alfalfa hay which displaces in a large degree, the expensive grain ration which was necessary before we got alfalfa.

Hundreds of silos have been erected this past year. Their owners are now feeding for the first season. These beginners with this great folder should profit by our experience and not make the mistake of feeding it alone. Silage is decidedly a one-sided ration. In contains very little protein. If satisfactory results would be had from feeding it, it must be balanced up with protein feed such as clover and alfalfa hay, bran, oilcake, meal, or with grains rich in nitrogen.

### Co-operative Forestry in Ontario E. J. Zavitz, M.S.F., Guelph

Some important changes have taken place in the Forestry department of the College within the last year. As was intimated last year the Government has started a forest station in the sand lands of Norfolk County. At present we have an area of 1,000 acres that is being placed under forest management. The creation of forest stations in older Ontario was a plank in the platform of the Porestry committee of the Experimental Union several years ago; it will be gratifying to those connected with the movement then, to know that their efforts were not in vain.

The forest station in Norfolk county contains at present, 1,000 acres of land unfit for agriculture but capable of producing good forest growth. There is, adjoining this area, at least 3,000 acres of similar land which should eventually be placed under forest management. This area contains

\*A report read at the annual meeting of the Ontario

about 40 per cent. of cleared land; probably less than this area will actually require replanting. The remaining 60 per cent. is covered with second growth which simply needs protection. The policy to be followed in managing these lands is to protect present young growth, and gradually restock the cleared fields on which there is no chance for new growth. The forest nurseries at Guelph have been moved to the Norfolk forest station and will be run in conjunction with the waste land problem.

### DISTRIBUTION OF STOCK

This last season the Department sent out about 380,000 plants to applicants throughout the Province. We had expected a larger demand but a number of the applicants were unable to handle the work owing to the extremely wet season last spring. Our surplus material was used on the land at the Norfolk station where there was planted about 40,000 Black Locust and South Pine.

In regard to the conditions of these plantations throughout the province I can report that the results are very favorable, many of the plantations containing from 80 to 90 per cent. of thrifty living trees. Last week I saw a plantation made two years ago at Rondeau Park in Kent country.

### Winter Fair Illustrated Supplement

Arrangements have been completed for another illustrated supplement of Farm and Dairy on high grade paper to appear next week. The illustrations of the supplement will include the champion horses,—Hackney, Clydesdale and pony—of the Graham and Renfrew Co., the champion cows in the dairy test with illustrations of the dairy stables, champion hogs and sheep. The edition will be worth preserving and hanging on the walls so that next year one will be able to compare the 1910 champions with those of 1909.

The first edition of the illustrated supplement issued after the Canadian National exhibition at Toronto was most enthusiastically received by Farm and Dairy readers; so general was the approval with which it met that we have been encouraged to issue another edition covering the Guelph Winter Fair. The supplement was to have been issued this week, but the cloudy, unfavorable weather so delayed and hindered the photographer as to make it impossible for him to get the work completed in time for this Dec. 16 issue.

which surprised me. This plantation was made on government land, and as an experiment no cultivation or preparation of the soil was given. The soil was sandy and covered with a light growth of grass and weeds. Usually, the method is to make the planting lines with a plow by throwing a wide, shallow furrow in which the trees are planted. This furrow and the land thrown out protects the young trees from grass and weeds long enough for the trees to get a start. Instead of preparing the soil as above, the trees were planted in the sod . About 75 per cent. of the trees are living and promise to survive. This sandy soil has the water table close to the surface and so is very moist, which probably explains the success of the experiment.

### SLOW GROWTH AT THE START

Many who receive our plants think they are too small, but this is one of the secrets of successful planting. Two years ago, Mr. Perey Reed of Georgetown reported on his plantation made the previous spring. I examined his plantation a few days ago and found about 85 per cent. of the trees living. He told me that they were disappointed in the growth of the trees during the first two years, but this last season many of the White Pine had grown 18 inches. The plants take two or three years to become established and then

White Pine on average soil should grow from 18 inches to 30 inches a year in height.

A White Pine plantation was made in Durham county on sand land in the spring of 1902. Today the trees are from two feet to three feet high. The educational value of these plantations is beginning to be felt. A number of men who are interested in the question of reforesting the sand lands of Durham county have gone to see this small forest, which only contains about eight acres, but which has proven the possibility of doing such planting. These men were sceptical about the work but this one example has converted them.

It is hoped that these plantations scattered over the Province will influence others to reforest the waste portions of their farms, and so assist in the maintenance of a proper proportion of woodland throughout the agricultural portions of Ontario.

# Select Stock That Appeals to You W. A. Dryden, Ontario Co., Ont.

Products of the dairy farm are all in keen demand and marketable at remunerative prices. The result has been that many farmers have forsaken the old method of milking a few cows and raising a few steers each year, for the one purpose cow. In all cases this practice should not be called a mistake for many men are naturally good dairymen and are fond of the detail work in connection with milk production. But I fear that of late years, some men who are not particularly fond of such work have been attracted by the high prices of dairy products, and as a first step toward raising the milk yield from their cows have crossed such high grade "farmer's" cows with a bull of some one of the dairy breeds. The result from such mating has nearly always been disappointing either from a dairy standpoint or from the standpoint of the production of beef.

The point I wish to make from the foregoing is that all men, whether farmers or others should seek work which appeals to them and persistently follow it so that whether they produce milk or beef or other farm products, they may so specialize in one or two lines that these may be brought to such a standard as to be above the average of others men's productions. Many farmers who have thus crossed their females will probably be wishing next spring that the young stuff on their farm was sired by a good bull of some of the beef breeds, so that they might be in line for the good prices for prime steers which will likely rule before grass comes. Good butcher cattle have not been as high in price throughout the fall season for many years, as they have during the last few months. The main reason for this is the scarcity of really good cattle in good condition, as well as increased home consumption in the large centres of population.

# Where Farmers Suffer in Competition

Prof. H. S. Arkell, Macdonald College.

Instances that could be given illustrative of conditions wherein the farmer's business suffers in competition with his stronger rivals are numerous. Noteworthy cases are of the stallion trade in United States, of the system of syndicating stallions in Western Canada at three, five and in one case ten times the original price paid in Scotland, of the commission trade in eggs and dressed poultry and of the sale of practically all products of the form of whatever kind. From the other side of the question, that which has to do with the purchase of supplies for the farm. 1 give only one illustration-the manufacture and sale of agricultural implements. The prices which the manufacturer is able to obtain for his goods become very often a burden of expense to the farmer which presses heavily upon his income and it is a pretty well recognized fact that the home consumer pays a higher proportionate price for

his implem to custom more unre

Decemb

Diseases

Dr. i Quarter sometimes hoof begin the hair a to the sho quarter of produce m foot is pla animal threertain ext

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issuing from This cor occur in ar the horse a stone or substance b it comes o because of ference wit thy growth which bec dry and then the c ally appears likely to oc feet and quarter cra ly considere sign of a w though the are liable to it if exposed sufficient to trouble.

TREAT A quarter never grow is to start in which downwards have reache disappear. crack next with a hot i top and sta should be c the foot pu night to so flammation may be pres Care must

be taken in ing the shoe should be no allowed to the shoe quarter in the crack is The whole should be r little shorte the rest of so that wh foot is ground an weight of t mal thrown there will bearing on eased quar bar shoe useful in o place a share weight on th foot is requi his implements than that at which they are sold to customers in other countries where there is more unrestricted competition.

### Diseases of the Horse's Foot-Quarter Crack

Dr. H. G. Reed, V.S., Halton Co., Ont.

Quarter cracks-or sand cracks as they are sometimes called-are cracks in the wall of the hoof beginning at the top of the hoof between the hair and the horn and extending downwards to the shoe. They usually occur on the inside quarter of the front feet. They almost always produce more or less lameness. Every time the foot is placed on the ground and the weight of animal thrown on it the crack will spread to a cortain extent and produce soreness of the part.

Occasionally a red colored fluid will be seen issuing from the crack.

This condition may occur in an instant by the horse treading on a stone or other hard substance but ordinarly it comes on gradually because of some interference with the healthy growth of the horn which becomes first dry and brittle and then the crack gradually appears. It is more likely to occur in weak feet and in fact a quarter crack is usually considered a sure sign of a weak foot although the best of feet are liable to suffer from it if exposed to injuries sufficient to cause the trouble.

### TREATMENT

A quarter crack will never grow together again. The only treatment is to start a healthy growth of horn from the top in which case the crack will gradually grow downwards until the new and healthy growth will have reached the shoe and the crack of course disappear. In order to do this the top part of the crack next the hair is either cut out or seared with a hot iron so as to obliterate the crack at the top and start a healthy growth of horn. All dirt should be carefully removed from the crack and the foot put in a poultice of some kind every night to soften the parts and remove any inflammation that

may be present. Care must also be be taken in applying the shoe. There should be no weight allowed to rest on the shoe on the quarter in which the crack is seated. The whole quarter should be rasped a little shorter than the rest of the foot so that when foot is on the ground and the weight of the animal thrown on it there will be no bearing on the diseased quarter. A bar shoe is very useful in order to

place a share of the

weight on the frog, which in the natural unshed foot is required to bear its share of the pressure.

Source of our Root and Vegetable Seeds\*

Geo. H. Clark, Seed Commissioner, Ottawa The origin of the seeds of field root and most vegetable crops grown in Canada is France, Germany, England and other European countries. During my recent tour of investigation in these countries I found numerous farmers with relatively small holdings who grow seeds of one or more kinds quite apart from any consisses with or inspection by responsible seedsmen. The seeds produced by them are marketed by commission dealers and other middlemen, ultimately reaching the warehouses of the larger firms which hold them for export. The ability of these small growers, as well as the care exercised by them, varies greatly, as shown by the appearance of their growing crops and their methods of harvesting and preserving the seed. It is not to be



A Bull that Closely Approaches the Ideal Sought for in Shorthorns

"Goldie's Prince," owned by Sen. W. C. Edwards, Boekland, Ont., captured first at Toronto and first at Ottawa, 1999, as a three-year-old. Note in this animal the low set form, the even balance, the wealth of fleshing, the straight lines, the masculine character—qualities that are eagerly sought for in the Shorthorn.

expected that European exporters will furnish any semblance of assurance as to the genuineness of the stock with seed produced and marketed in this way. But they are able to offer it at a comparatively low price.

Another and more reliable source of supply of these seeds is from seedsmen who arrange for the production of their supplies in advance, and have the seed grown for them on contract from year to year by farmers whom they know from experience to be competent in the matter of selection, and careful in the handling of their stocks. This



A Thrifty Bunch of Youngsters at Riverside Stock Farm

se calves are but a few of the many richly bred Holsteins soon to be sold bild auction. They are owned by J. W. Richardson, of Caledonia, Ont., advertisement appears elsewhere in this issue. by public auction. public auction. They ar se advertisement appears

> system is quite general in Great Britain and \*From November "Census and Statistics Monthly."

France, where many of the seedsmen have instituted a system of more or less efficient inspection of the crops of seed that are being grown for them. By adding considerable expense to production, both in the selection of stock and the inspection of the growing crop, they are able to produce seed of superior quality and to give their customers a fair degree of assurance as to the genuineness of the seed they supply. Keen competition in prices, however, produces a strong temptation to reduce the expenses of production and inspection; and this, added to the possibility of error on the part of the actual grower over whom they have not full control, precludes them from being able to assume full responsibility by furnishing a definite guarantee with their supplies.

#### LARGE SEED FARMS

The most reliable sources of seed supply are undoubtedly the seedsmen who sell only those seeds that are grown, selected, harvested and preserved under their direct supervision on their own lands. I visited several such large seed farms, consisting of from 500 to 7,000 acres, in Scandinavia and Germany. On the larger farms the work with each kind and variety of seed, including improvements by breeding and selection, the maintenance of the purity of stock, cultivation, harvesting, curing, threshing, sacking and labelling for shipment, is entrusted to competent experts, most of whom are university graduates in science, who are required to assume full responsibility to the firm in connection with the branch of the work under their charge. Such a staff of experts is maintained at large expense and the prices of the seeds so produced are necessarily high. On some of these farms the areas of seed crops of the various kinds that are grown in any year represent only the orders for seeds that have been received several months in advance of the time for planting them. The managing heads of nearly all of these large seed farms that I visited frankly stated that they were quite prepared, and in fact it was their practice, to give definite guarantees as to Loth genuineness of stock and percentage vitality with the seeds they sell, and were quite ready to do so with Canadian buyers.

### COULD GROW SEED AT HOME

The variable soil and climate found between Vancouver and Prince Edward Island furnish conditions for growing and maturing seed of nearly all our field root and vegetable crops equal and in some respects superior to those prevailing in the parts of Europe from which Canada obtains the greater part of her seed. The seed-growing experiments that were authorized by this Department of Agriculture in 1908 have continued to be quite successful. Already there is evidence to show that home-grown selected seeds produce a better early growth and a more satisfactory crop than do the imported stocks.

The growing and selecting of superior quality seeds of these crops is a highly scientific branch of agriculture, but plenty of Canadian farmers are equal to the task. When compared with Europe, the expense for labor is a deterrent to seed growing, but good lands for that purpose are to be had in Canada at from \$30 to \$60 an acre, while the value of land in the seed-growing districts of Europe ranges from \$300 to \$600 an acre. To encourage further the production of high-class seed of these crops in Canada, this Branch is prepared to secure and provide the services of an expert, well trained in both the practice and science of seed growing, who may, in addition to giving information by correspondence, visit and inspect the operations of growers of field, root and vegetable seeds during the summer season

For heavy milkers in the winter time, we consider water in the stable a necessity, rather than a luxury. The system in our stables gives very good satisfaction, and is neither elaborate nor expensive.—Frank Webster, Victoria Co., Ont.

There was assembled at Guelph last week a collection of stock never equalled before in Canada and seldom on the continent. Notwithstanding the fact of the increased accom-modation furnished by the new wing of the building, adequate room was not provided or either exhibits or not provided or either exhibits or visitors. The twork was the greatest that Guelph has ever seen, and the building was uncomfortsby crowded on the three main days of the show. An adequate entrance is needed to the buildings. Every person entering the show had to pass through give the show had to pass through the show had to pass the show that the pass great of the show had to pass the show the show the resulted in inconvenient and dan-resulted in second states of the show the show the great of an extent appreciate the show the show the same than the show the show the show the show the show the same than the show th ger to an extent appreciated only by those who were a part of the jam. The directorate of the Fair must The directorate of the Fair must again face the problem of space, an increased amount of which will shortly be imperative. It is estimated that in all there were something like 50,000 admissions throughout the week.

THE DAIRY SECTION. The banky SECTION.

The new accommodation provided for the dairy cattle, while the space was about one-third larger than formerly, was disappointingly small, although the ventilation and light in the dairy department were a vast improvement over that of former years. The dairy part of the show was the best that has been since the show was started. An extended table of the results of the dairy test is given on page 12. The test, which was concluded on Monday night, resulted in again placing Holsteins at the head again placing Holsteins at the head again placing Holsteins at the head again placing Holsteins at the Maley's (Springford) Lady Aggie de Kal with 210 nounds of milk, testing Kal with 210 nounds of milk, testing provement over that of former years. Kol with 216 pounds of milk, testing 4.3, for the second time in succession won the premier honor. Last year her record was 203 pounds of milk, testing 3.7. Messrs. H. & J. McKee, Norwich, had the champion Ayrshire cow—Victoria, 166.8 pounds of milk, testing 4.3, while their Queen Jessie, as a three-year-old, was first in her class with a total production of 133 pounds milk, testing 4.96. This year's record was the highest ever made at the show. Notice should be taken of the show. Notice should be taken of the high percentage of fat registered for both Holsteins and Ayrshires. 4.3, for the second time in succession won the premier honor. Last year

HORSES. The horse department, which is a new feature at the Guelph Fair, was the largest of any show yet held under the direction of the Ontario Horse Breeders' Association. Accommodation had been provided to the extent of 140 stalls. From 70 to 100 entries were obliged to find stabling at nearby hotels. The last Ontario Horse Breeders' Exhibition held Horse Breeders' Exhibition held at Toronto had about 175 entries. The largest entry they ever had before was 215. This year at Guelph the entries numbered 230, which is a great increase for one year. The classes were all larger than last year, those for Standard-breat those for Standard-bred norses being

those for Standard-bred Lorses being unusually large.
Cowden's Prince carried off the championship in Clydesdale stallions. Commodore, shown by Smith and Richardson, was runner up. The championship for Clydesdale mares went to Queen Minnie, owned by the went to Queen Minnie, owned by the pion class for Canadian bred Clydesdale and Shire mares, Messrs. Geo. Champion, with Smith Smith George Champion, with Smith pion, with Smith and Richard-Bell Priam in reserve. The champion. son's Bell Priam in reserve. The champion Shire stallion of the show was Royal King III, owned by John Gardhouse and Son, second placing going to Sand Boy II., owned by F. Drury & Son, Charing Cross. Brig-ham Radiant, owned by Messrs, Gra-ham & Panfrow. ham & Renfrey, captured the cham-pionship for Hackney stallions. Ply-mouth Horace, also owned by Gramouth Horace, also owned by Gra-ham & Renfrew, was declared the champion pony stallion of the show. Mr. T. A. Cox of Brantford won the championship for pony mares with Tiny Kit, and Mr. J. M. Gardhouse that for Shire mares with Blue Bell.

A large number of horses at the show found purchasers, several buyers from Manitoba and Alberta securing some of the choice stock on exhibition for the West at prices ranging from \$500 to \$800.

BEEF CATTLE.

A larger entry than last year and, in fact, the largest for several years, was accorded to the beef cattle section of the show. James Leask of Gonewood assistance. again carried Geenwood again carried off the championship for the best beef animal in the show. The magnificent Shorthorn steer, which last year won the premier honours as a calf, gained the victory for him. The champion steer was sold for \$225. off

At the auction sale of carcasses, fair prices were realized. Pork brought 11 1-2 cents; beef 9 1-2 cents to 10 cents, yearling sheep 11 to 12 cents and lambs 11 1-2 to 13 cents.

SWINE AND SHEEP.

The number of entries in swine were practically the same as last year. The well known breeds shown by the well known breeders who annually at-tend this show, as well as those shown by a number of new comers, made up the entries. There was a wonderful increase in the sheep department. Difficulty was found in getting accom-

department created among the farmers. among the farmers. The grain win-ning prizes in this department in-stead of being sent to the Ontario Agricultural College and other ex-perimental stations. perimental stations, will this year be distributed among the 11 branch stations of the Department of Agriculture in two-bushel sacks to be given to farmers as seed. The exhibit formed quite a centre of trade as growers, exhibitors and customers seemed to make it a point to meet LECTURES

Never at any other agricultural fair or exhibition has it been possifair or exhibition has it been possible to keep the people interested in lectures of a practical character. At Guelph, however, this year, as on former occasions, the people seemed to be hungry for knowledge. Notwith-standing the fact of the enlargement of the building and other departments and the presence of the horse department, which some thought would detract from the attendance at the lectures, they were at each session filled. tures, they were at each session filled and the addresses were delivered be-fore large and interested audiences.

The greater part of the lectures de-livered this year were of the nature of what really is necessary in the lest types of stock. These demonstra-

Ladie Aaggie De Kol, (Holstein), Twice Champion at the Guelph Winter Fair M. L. Haley of Springford, Ont., was again successful with his Lady Aaggle the three day dairy test at Guelph. Her record this year was 216 bs. of m testing 4.3. Last year her record was 203 bs., testing 3.7 per cent. of fat.

modation for them. As it was there tions dealt with cattle, horses, sheep Shakespeare.

POULTRY.

The poultry department of the Guelph Winter Fair has made won derful strides since it was first held 10 years ago. The entries have more 10 years ago. The entries have more than doubled in 10 years, there being 4,500 this year, which practically utilized all the space provided for them in the new extension to this de-

The seed exhibit was the best dis-play that has been yet at Guelph. There was one grave oversight on the part of the management in connec part of the management in connec-tion with the seed exhibit. Adequate-ing. Exhibitors at times found it necessary to practically stand over their exhibits with clubs to keep vis-tiors, especially the rougher element, from the city, from mixing their ex-bits and over the control of the control of the hits and over the control of the control of the hits and over the control of the control of the city, from mixing their ex-bits and control of the control of the control of the city. itors, especially the rougher element, from the city, from mixing their exhibits and carrying off a part of them. In this was especially true of the corn exhibits. Protection should at least be given the exhibits until after they are judged. After principal feaure of the seed exhibit was that made in connection with the field crops competition. The two-bushel lots in this

as a neither room for the comfort of the sheep nor for visitors to see them properly. The cup given by Sir George Drummond for the best pen of lamos was won by Mr. John Kelley of Control Act and the farmers. These underdraining, best types of ensilage corn, the Seed Control Act and the farmers. These will be reported more or less fully

> Judging Competition, Winter Fair The results, with individual scores,

The results, with individual scores, of the students in the Judging contest at the Guelph Winter Fair, are announced as follows:

Swine:—1, E. B. Palmer, 86; 2, F. W. Remwick, Sl; 3, P. Stewart, 79; 4, W. A. Kelly, 75; 5, S. H. Clark, 73; 6, A. McLaren, 72; 7, C. A. Barnett, 71; 8, A. W. Pate, 69; 9, G. C. Miller, 66; 10, F. A. Bennett, 65.

Sheep:—1, J. Laughland, 95; 2, J. C. Yule 84; 3, J. Parkinson, 89; 4, A. McPaggart, 73; 5, S. A. Bergey, 65; 6, J. E. Rettie, 64; 7, C. M. Learmouth, 67; S. A. M. Besman, 65; 9, J. M. Palconer, 64; 10, J. B. Grange, 53.

LEARN to MOUNT Birds and Animals we can teach you by real at home during a fine during a fine of britis, animals and home at a fine of britis, animals and make rugs. He yes was tankersele. Decorate your home the same tankersele. Decorate your home to be a fine of british and was to be a fine of british and was being the same to be a fine of british and was to be a fine of british and and Anima. "one tankersele british and Anima." one tankersele british and tankersele british

Goes Like Sixty Sells like Sixty
Sells for Sixty-five \$65 GILSON GAS AND ENGINE

### Raising Calves

The calves in the Don Herd of Jerseys, owned by Mr. David Duncan, whose success as a breeder is well known are raised on their mother's milk for the first four weeks at which time skim milk is gradually chattitud until at six weeks they at which time skim misk is gradually substituted until at six weeks they receive all separated milk. The fat removed is made up to the calves by a mixture of ground linseed and oila mixture of ground linseed and oil-cake, half and half, scalded frash each day and which is fed in the milk. At the earliest possible time in a calf's life it is taught to eat. Each calf is tied before it receives its milk and it is kept tied for a half hour or therasheuts after. and it is kept tied for a nail nour or thereabouts after, when all are let loose and allowed to feed from a com-mon manger of clover hay. In this way the calves do not develop the habit of sucking one another. Slice roots and oat chop are fed once a Ensilage is provided morning vening. That the system pracand evening. tised is a good one is vouched for by the calves themselves. A thriftier bunch than those now in Mr. Dun-can's stable, one could not wish to

I have been a subscriber to Farm and Dairy for five years, and feel that Farm and Dairy deserves credit for the continued improvement it has the continued improvement it has made.-J. A. McDonald, Glengarry

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Get acquainted with **Black Watch** the big black plug chewing tobacco. A tremendous favorite everywhere, because of its richness and pleasing

flavor.

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The The Fe our subservited to interest. prompt a \*\*\*\*\*

Feeds 1

Would yo and quanti feed cows to termaking, land, Ont. Generall hand a si wish to fe such a list to be able will be of feeder. T you have stuffs at y as a good The amoun Clover h size of

Oat stray size of cor Bran, 3

Chopped Barley, g place of the entirely. Of millet, veto by barley. A mixtur crushed oat barley shou the milk p the meal m of milk pro of milk you

or pea mea is probably sent. The cake meal ready described and the course of the course

If you wi than tran, meal, oil ca

Two C What would what would acre, say, one and three que fall? Would be sufficient with fodder? pasture and pasture to be sown to be set to be sown to be set.

sown to best garry Co., ( Four acres two cows if two acres | would be or roots and c way, I thin cient to feed round, so

I would su acre Longf acre mange parts by we five bushels acre 10 lbs. clove acre. Cut just into he clover a cha the peas an ture if nec acre clover l pastured the after the cagain and lithat served of the seaso a shallow is cultivated un

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

### Feeds to Increase Milk Flow

Would you kindly let me know quality and quantity of hay or other foods to feed cows to increase flow of milk for buttermaking, and oblige.—H. A. P., Eockland, Ont.

Generally speaking farmers have on hand a supply of feeds which they wish to feed to their cattle. Having wish to reed to their cases. Having such a list in mind one is more likely to be able to formulate a ration that will be of really some value to the feeder. Taking it for granted that you have the more common feeding stuffs at your disposal or can procure them, I would suggest the following as a good ration to feed your cows in order to maintain a good flow of milk. The amounts given would be for one cow for one day.

Clover hay 15 to 25 lbs. according

size of cow. Oat straw, 5 to 10 lbs. according to

size of cow.
Bran, 3 lbs.
Chopped Oats, 2 lbs

Chopped Oats, 2 lbs.
Barley, ground, 2 lbs.
The following feeds might take the
place of the clover hay in part or
entirely. Oat hay, pea and oat hay,
millet, vetch hay, alfalfa, mixed hay.
Oat straw might be replaced in part
by barley. Wheat chaff has consider-

by barley. Wheat chaff has considerable food value.

A mixture of 300 lbs. bran, 200 lbs. crushed oats and 200 lbs. fine ground barley should be fed in proportion to barley should be red in proportion to the milk product, say one pound of the meal mixture for each four pounds of milk produced. That is to say to a cow yielding 20 lbs. or two gallons of milk you should give about five lbs. of the meal.

lbs. of the meal.
If you wished to buy any feed other than tran, I would suggest gluten meal, oil cake meal, cotton seed meal or pea meal. Of these oil cake meal is probably the best value just at present. The addition of 200 lbs. of oil cake meal to the meal mixture already described would be advantageous.—J. H. Grisdale, Agriculturist, C.E.F., Ottawa.

### Two Cows on Two Acres

What would you advise sowing on an aere, say, one quarter for summer feeding and three quarters for winter fodder this fall? Would the stuff from four acres be sufficient to feed two ower for a year with fodder? One aere in mes.low, two in pasture and one plowed this fall to be sown to best advantage.—J. M.L., Glengarry Go., Ont.

Four acres would not be enough for Four acres would not be enough for two cows if you intend giving them two acres pasture. A better plan would be one acre pasture, one acre roots and corn. You would in this way, I think, be able to grow suffi-cient to feed your two cows the year round, so far as roughage is con-cerned.

cient to feed your two cows the year round, so far as roughage is concerned.

I would suggest three-quarters of an arce Longfellow corn, one-quarter acre mangels and turnips and one acre mixture peas and oats equal parts by weight sown at the rate of five bushels an acre. With this sow 10 lbs. clover and 10 lbs. timothy as acre. Cut the peas and oats weight the peas and oats might have cut before this to supplement the end of the peas and oats might have cut before this to supplement the cut before the later part of the season after the clover ray. The rate of the season after the clover gets well started again and late in August the acre that served as pasture the fore part of the season might be plowed with the shallow furrow, rolled out kept of the season might be plowed with a swell of the season might be plowed with a shallow furrow, rolled out kept is a shallow furrow, rolled out kept is shallow furrow, rolled out kept is shallow furrow, rolled out kept is spring of 1911 then sown to oats or cultivated until late in October when late in August the acre

The Feders' Corner

The Feders' Corner is for the use of our subscribers. Any interested are inyited to said, questions, or send items of

Spring.—J.H.G.

### \* FARM MANAGEMENT Leeseseseseseseseseses

# Choice of Types in Holstein Bulls

No. 1.—A low, thick-see, nooky animal, having a masculine head, thick heavy neck, with high crest, heavy shouders, broad back, source button, well quariered—in all a rather beefy looking animal. No. 2.—A slim, clean-cut head, ewe neck, thin withers, narrow back, cat hams, well thin withers, narrow back, cat hams, well the support of the state of the support of the

Generally speaking low set masculine bulls with deep, well developed middles are to be preferred to narewe necked steery looking individuals of the same sex. The good dairy bull should, as a first requisite, possess lots of vitality and prepotency. The animal described in the second paragraph would, according to that description, appear to be badly lack-ing in that most important peculiar-I may say however that it is always difficult to judge of the com-parative merits of breeding animals when only words are used to convey conceptions to the mind of the one asked to express an opinion. It is very often hard enough to come to a conclusion when the two animals are side by side.—J. H. Grisdale, Agriculturist, C.E.F., Ottawa.

### Cost of Shearing Sheep

How much does it cost to shear sheep each, and how many sheep can be shorn per day, under average conditions?— K. S., York Co., Ont.

K. S., York Co., Ont. A man under average conditions may be expected to shear 25 sheep a day. The condition of the wool, the breed of the sheep and the skill of the man are factors which might allow of only half or less this many sheep being aborn or twice as many if everying aborn or twice as many if everyable. The coat will depend on these things.—J. H. G.

### Poor Land and No Manure

Poor Land and Nc Manure
I have a field I have pastired for three
years owing to the poor crop it has had.
I have not had the manure to put on it,
nor have I the manure this year. I
thought I would break it up and sow
thought I would break it up and sow
the field has that do best on poor soil.
The field has that do best on poor soil.
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the poss or something that will do as
well or better than pass on this land?
I best on I work it up without manthe best on I work it up without manthe best on I work it up not he fold in
I would sugreest thus on the field in

I would suggest that on the field in

two a.d a half bushels an acre. At the same time sow 10 lbs. red clover seed and 12 lbs. timothy seed per acre. The next year, 1912, provided the season 1911 has been normally favorable for a catch of grass there should be clover and timothy growing. This might be pastured off or cut off for one crop hay and then left to the control of the control o two a..d a half bushels an acre.

satisfactory and the most effective in bringing up run-out areas.

If, due to very adverse weather conditions or other cause you should fail to get a catch of clover and grass in 1911 it would be well to cultivate the oat stubble well and sow fall rye in September. This rye could be turn-in September. This rye could be turn-land thoroughly works of all the same to be sown to buckwheat to be sent in obsected. sown to buckwheat to be again plowed down and the land well worked till autumn, ridged up and seeded to oats and grass and clover seed in spring 1913.—J. H. Grisdale.

### Soils Best Adapted for Wheat

Soils Best Adapted for Wheat Will you please give me whatever information possible as to what kind of soil is best adapted to the growing of spring and winter wheat.

Perhaps your experimental farms can give me information regarding this; airo kindly ask them to state which of the foundly ask them to state which of the foundly and them to state which of the foundly have been applied to the foundly with the state of the foundly with clay subsoil. Sandy loam with elay subsoil. Sandy loam with elay subsoil. Light clay with clay subsoil. Kindly advise them to state these in their respective order, and oblige—E. B., Abbortsford, Wis.

It would mot be asfe to say posi-

It would not be safe to say positively that any one of the various soils mentioned was the best or worst of the lot for either spring or winter So many factors quite independent of the kind or son go to con trol the quality and quantity of the wheat crop that at best any opinion expressed would be more or less of the nature of a surmise.

However, given good drainage and proper soil preparation with aver-age weather conditions the proba-bilities are that the various soils described are valuable for wheat production in the following order.

1. Clay loam with clay subsoil.

- 2
- Black loam with clay subsoil. Sandy loam with clay subsoil. Light clay loam with clay subsoil.
- Heavy sandy soil with clay subsoil 7. Light sandy soil with clay sub-
- This would probably be the case for

both spring and winter wheat unless the heavy lan i were very level and not very well drained in which case the sandy soils might stand relatively higher.—J.H.G.

Plenty of bedding should be pro-vided for the cattle. If they are not curried every day they should be well curried every day they should be well brushed before being milked. A good thing to do this with is to take a handful of hay, twist it up tightly and use it thoroughly as long as it and the property of the control of the control of the control of the angle of the control of th lasts, then take another.—Frank Webster, Victoria Co., Ont.

Growing Fine.—"Recently I secur-ed a club of seven new subscribers for Farm and Dairy and received as a premium a pure bred pig sent me by a premium a pure bred pig sent me by Farm and Dairy from Mr. A. A. Colwill of Newcastle. I am very much pleased with the pig. It is growing fine, and weighs now about 70 lbs. I also received the pedigree from Mr. Colwill and thank Farm and Dairy for my fine premium."—Robt. Belfor my fine premium."-Robt. lamy, Northumberland Co., Ont.

Have you forgotten to renew your subscription to Farm and Dairy?

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# The British Columbia Dairymen's Association

Under the auspices of the PROVINCIAL GOVERNMENT
DEPARTMENT OF AGRICULTURE, will hold a

# Dairy Farm Competiti

Running from 1st January to 31st December, 1910

### PRIZE TO BE AWARDED: CHALLENGE CUP

(Cup to be won three times, not necessarily in succession, before becoming the absolute property of Competitor)

A Gold Medal will be awarded to the successful Competitor securing the Cup each year, as also will Silver and Bronze Medals be given the next two best Competitors in order of merit.

**ENTRIES CLOSE 1st JANUARY, 1910** 

For further particulars and entry forms, apply to

R. W. HODSON, Secretary-Treasurer, Live Stock Commissioner's Office, Dept. of Agriculture, VICTORIA, B. C.

N.B.—Competitors before entering competition must be duly enrolled as memb the British Columbia Dairymen's Association, the membership fee being Collar, which should be forwarded to the above-named Secretary-Treasurer.

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

### \*\*\*\*\*\*\*\*\*\*\*\*\* Black Heart in Fruit Trees

W. T. Macoun, Central Experimental Farm, Ottawa

Black heart is a condition found in trees grown in cold climates. It is caused by the death of the young wood in winter. The bark and cambium (the growing tissue next to the bium (the growing tissue next it the bark) remaining uniqued, grewth bark) remaining uniqued, grewth continues in the spring much as us-ual, but the injury remains and may eventually cause the death of the tree. If, for instance, rot gains an en-trance through the crotch or a dead tree. If, for instance, rot gains an en-trance through the crotch or a dead when the whole interior of the tree will be a support of the tree will blow over and it will be found merely a shell which has been held together by the trunk and a few outside layers of wood.

of wood.

Back heart in its incipient stage may be prevented by careful attention to Northern grown nursery stock. During the winter, after the first season's growth of the young grafted tree, most varieties are likely to be killed back, and when the tree begins to grow in the spring it will be found that the young wood is blackened below the point where growth begins. This is black heart. Careful nursery men now cut. back the young trees men now cut. back the young trees men now cut. back the young trees the properties of the p This is black heart. Careful nursery men now cut back the young trees almost or quite to the ground the first year, in order that the tree may start growth from healthy wood. The same thing may occur the second season, and the trees are again cut back, but it is usually not necessary to cut so

far. Even after trees are three and four years of age and have been planted in the orehard they may get black heart be winter injury, but it is much rarer than when they are neglected in the nursery. The tender varieties are more susceptible to black heart than the hardy anes. than the hardy ones.

Barrels Best for Apples

W. G. Fischer, Canadian Trade Com-missioner, Glasgow, Scotland

missioner, triasgow, Neotuma
A considerable quantity of apples
have been arriving in boxes of 40
pounds weight. For a certain limite
trade this seems to be a very popular
package. An important point, while
it seems necessary for the Canadian
variety to charge is exactness exporter to observe, is exactness in stencilling the different packages whether barrels crates or boxes, and to see that the contents are exactly as the marks on the outside of the

as the marks on the outside of the puckage indicate.

From inquiries here, the most de-sirable package for Canadian apples is the regulation Canadian barrel. There is a general feeling that the purchaser can rely on the quantity of fruit packed in that way.

### Expensive Spraying Avoided

Although spraying is a necessary operation in successful orcharding, more expense is often put upon it than is necessary. Farm and Dairy knows of one man who paid \$115 within four years for the spraying of an orchard of two acres. He has been an orchard of two acres. He has been the successful to the successful that a poor outfit. It does not pay him to expend so much money to have his trees sprayed, when he can buy a good spraying

much money to have his trees sprayed, when he can buy a good spraying apparatus for one-fourth of what he has already paid out and it will last for ten years or more, and the cost of spraying the trees with it will then be but a few cents a tree.

then be but a few cents a tree.

The right material must be used, which is the boiled lime-sulphur wash, either home-boiled or counserial. It can be bought already prepared and ready to be diluted with cold water and applied to the trees but in diluting this, generally, one should not add more than eight times its bulk of

A home-made lime-sulphur wash may be made by bo ling 17 pounds of sulphur and 22 pounds of lime as nour with enough water to boil it, then straining it and adding enough water to make 40 gallons and spraying it thorough; over t. trees. This regist thorough; over t. trees. This properties at any time when the trees are due to the sum of the trees are due to the trees are due to the sum of the trees are due to the sum of the trees are due to the sum of the trees are due to the trees are du

opposite direction.

If one has much scale, it would pay
to give the double dose twice, viz.,
in the fall, shortly after the leaves
drop, and again in the spring, when
the buds are swelling. This will really do the work in a satisfactory manner, and will kill the scale and the
grower can keep it in control and
produce good fruit after that.

### Over-Planting of Strawberries and the Western Markets

At the convention of the Ontario Fruit Growers' Association in To-ronto in November, a paper on the above subject was given by Mr. Robt. Thompson of St. Catharines. The following is a synopsis of it: "In taking up this subject we must

look at it from a disinterested stand-point. Strawberries are not over-planted, but there is under dis-tribution. The great consuming public, except in a few centres, have not begun to get all of the berries they want and, in many instances, they in many instances, the have had to pay very high prices. Of course, the fruit growers, who have been induced, by the fairy tales of the real estate agents and of others who have land to sell (and who are who have land to sell (and who are not over-exact in representations of profits derived from fruit growing) to purchase land at high prices ex-cepting to obtain fancy prices for their fruit, will say that berries are over-planted and prices too low. But we must remember that berries can be we must remember that berries can be grown over a large area of our coun-ary and, if there should at any time be too large profits, there will be many to enter into the production. We must expect to we prepared to sell at a reasonable price and at the same time be prepared to use com-mon sense and good judgment in dis-posing of the fruit.

posing of the fruit.

"The grower has many troubles to on the division secured a good care and early waition secured a good crop he not be the the is bound to sell to the case that he jobber at the first price offered, if a not deemed sufficient. The general security is always pay a fair average. If the have the promise of full crop we have growers who always get cold feet and rush to sell at any price and if they can get the promise of any rise in the market, they think they are making a good deal, when as a matter of fact, if any number sell this way they make it impossible to have any rise in price. "Take the past spring, for example."

"Take the past spring, for example. The canners had sold all of their stock of canned strawberries and were bare but they anticipated a good crop of berries and put the price of berries from three and three-quarters to from three and three-quart four and a half cents a box. growers thought that they had to take Owing to the cold weather, berries ripened late and came in a rush. Prices fell for three or four days and the factories bought at from two to the factories bought at from two so three cents a be. Of course, this was a serious lost to the growers who so sold. Owing to the low of-fers, most of the berries were shipped and the shippers did Letter than factory prices.

"I have investigated the sales of many growers and find that in every instance when they put up their berries properly they made more by shinping. I will give one grower's re-turns from this—about medium re-

"In regard to the northwest mar-ket as an outlet; I feel confident that within a few years, that market will take a lot of our berries. Our growers sent out three cars of berries this season with on the whole fair success financially and gained a lot of valuable experience. Before sending Valuable experience. Delote sending the Lerries our growers were skep-tical as to berries carrying safely. The consumers in the west were doubt-ful also. After the berries were shipped, bought and used, we found that the berries would carry safely, that the buyers found that our berries were better in flavor and stand up long enough to use and can, and that they are prepared to buy Ontario berries more largely in the future. "One word as to that market: Our

son nearly 150 carloads of sn.all fruits, and there have been almost 500 cars sent from the Niagara district. Our experience is that if we go after this market in a businesslike manner and arrange to supply the public regular-ly with Ontario fruit that the people out there are ready to give our fruit the preference; out to succeed we must use good packages, load the cars properly, see that fruit is cooled quick-ly, have the ruit picked carefully and at pr stage of ripeness for and we must also see cach vari and we must also see that the trailway Commission well have the rates lowered to points west of Brandon. The rate of from \$1.00 to \$1.60 a hundredweight to all points west of Brandon is largely prohibitive. If we can secure rates to the weatorn moints in averaging to the western points in proportion to what western points in proportion to what we have to Winnipeg, Portage la Prairie and Brandon, inside of three years, more fruit will be shipped west from Ontario than will be shipped to Intario and eastern markets.

### Prosecutions by Fruit Inspectors

Prosecutions by Dominion Fruit Inspectors during the past three or four weeks for improper marking and packing of apples, have resulted in the following convictions and fines: Geo. Vivian Mitchell. (4 charges) the following convictions and nnes: Geo. Vivian, Mitchell, (4 charges) \$'0: F. G. Matthews, Colborne, Ont. (2 charges) \$35; F. L. Wilson, Colborne, Ont., \$10; Orono Fruit Grow-

turns—ad he shipped all of his crs' Association, Newcastle, Ont., \$10 so that he had no fancy outlet. He had 512 crates and they netted him had 512 crates and had 512 crates

### Garden Insects

An interesting and instructive address on "Insects that Affect Market Gardens," was given by Mr. C. W. Gardens," was given by Mr. C. W. Nash at the convention of the On-tario Vegetable Growers' Association at Toronto in November. The worst class of insect pests are

The worst class of insect pests are those below the surface or the ground. Cut-worms do an immense lot of barin. They are hatched from egg-laid by small moths. The white grub also does great mischief. They come from eggs of the "June bug".

It is difficult to destroy these under-cound insect. Be driving holes into

It is dissect to destroy these under-ground insects. By driving holes into the ground with a blunt stick and pouring into them bisulphide of carbon, which is heavier than air, and works down, they can be killed. For cut-worms, take bran, mix with molasses and water; to every ou parts put one part of Paris green and drop the mixture along the rows in the in-fested bed. They prefer this to green food. Two varieties of stem Lorers give trouble.

give trouble. "Insects that attack foliage are countless," said the speaker. "Some suck, others bite. Among the former are green plant lice. To kill them use whale oil, or even common soap. This closes the spiracles through which they breathe. Do not use kerosene emulsion; continual use of this injures the plant owing to the mineral oil in it. Larvae of onion or cabbage are killed by cultivating along rows. oil in it. Larvae of onion or cabbage are killed by cultivating along rows. The radish fly is troublesome. Dust them with fine wood ashes early in

the morning.
"Insects which feed with jaws, "Insects which feed with jaws, as potato bugs and larvae of white cabbage butterfly, can be killed with arsenate of lead sprayed on and there is no danger of burning the foliage with the region." with the poison. Use two pounds to 50 gallons of water. As an alterna-

50 gallons of water. As an alterna-tive use four ounces precluder.

"The slug is destroyed vating over the ground while they are feed-ing, or early in the merining, with salt or quicklime. For any are dress the ground with kain or many dress the ground with kain or any and rotate crops as frequently as possible. For asparagus beetle, apray with arsenate of lead."

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POUL

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"During the chicken popul-nine millions t this mean tha whatever of emphatically, "Prices products are well as othe far from beir poultry have h almost warran

farm produce.
"There need duction, either The British mand pays the that are guara for poultry th shipped Canadian pour creasing, yet and poultry prothe past three This means to

and unless we demand, a ser result. FARM CONDI

"No man is to raise poul than is the far Graham. only give a gralso a wide r which young roam, getting sides being in in which some own light is, l Lean hens nev winter. Hens viding they a plenty of exer that would not

Danish eggs prices paid for ets, why? Beca erative societie Denmark, the idly, and all centre where t and well. From the British m there pay the they know ever represented by tive Societies. adopt a simila obtaining the ished product?

Feeds and Miss Mary Yat

In feeding f one must remer tremes in feed grain. Hens, ciate a variety ordinary condi ingly. Such gr and barley are mended. Of co when vegetatio may be done by or mangels. A may also be nec that a chicken grinding mill strength.

GRINDING POY As an instan power the gizz a hen has been \*Part of an ac Poultry Session Guelph Winter F

### POULTRY YARD

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Poultry Production on the Farm

"Profitable production of poultry on the farm," was the subject of an in-teresting address delivered by Prof. W. R. Graham at the Guelph Winter

"During the past three years the chicken population has grown from nine millions to over 12 millions. Does this mean that there is any danger whatever of over-production? Most emphatically, no," said the Professor. "Prices for poultry and their products are now high and Toronto this mean that there is any well as other first-class markets are far from being glutted. Prices for poultry have been such that it would warrant our importing such almost farm produce

There need be no fear of over-pro-There need be no fear of over-production, either in poultry or in eggs. The British market always calls loudly and pays the highest prices for eggs that are guaranteed to be fresh, also for poultry that has been cared-for and shipped in the proper manner. Canadian poultry production is in-creasing, yet her exports of poultry and poultry products decreased during

the past three years.

This means that the consumption of poultry and its products is increasing and unless we meet the ever-increasing demand, a serious shortage is sure to

FARM CONDITIONS MOST SITITABLE

"No man is in a better position to raise poultry more economically than is the farmer," continued Profes-sor Graham. "Farm conditions not sor Graham. "Farm conditions not only give a great variety of foods but also a wide range of territory over which young chicks, growing, may roam, getting plenty of exercise be-sides being insectivorous. One way in which some farmers stand in their own light is, by not feeding liberally. Lean hous, never compresses leaving, is Lean hens never commence laying in Hens that are too fat, prowinter. Hens that are too rat, pro-viding they are given the option of plenty of exercise, are usually those that would not lay anyway.

Danish eggs command the highest prices paid for eggs on British mark-ets, why? Because, by means of co-opets, why? Because, by means of co-operative societies scattered throughout Denmark, the eggs are gathered rapidly, and all are sent to a common centre where they are packed rapidly and well. From there they are sent to the British markets and the buyers there pay the very best prices beca there pay the very legg is just as it is represented by the Danish Co-opera-tive Societies. Why do Canadians not adopt a similarly effective method of obtaining the best prices for the finished product?"—R.B.C.

Feeds and Feeding Poultry\*

Miss Mary Yates, Macdonald Institute. In feeding farm poultry for profit one must remember never to go to extremes in feeding only one kind of tremes in feeding only one kind of grain. Hens, like ourselves, appre-ciate a variety of eatables, and under ciate a variety of catables, and under ordinary conditions, respond accord-ingly. Such grain as whest, corn, cats and barley are always highly recom-mended. Of course this time of year when vegetation is hidden by anow, green food should be provided. This may be done by giving them the finer parts of clover leaves, alfalfa leaves parts of clover leaves, affalfa leaves or mangels. A small quantity of grit may also be necessary. But remember that a chicken has a gizzard. The function of this gizzard is to serve as a grinding mill. It is an organ which is small but of surprising muscular

GRINDING POWER OF THE GIZZARD

As an instance of what grinding power the gizzard actually possesses, a hen has been known to eat a large \*Part of an address delivered at the Poultry Session of the lectures at the Guelph Winter Fair, last week.

handful of finely cut glass, having very handful of finely cut glass, having very sharp corners and after 48 hours the same hen was killed and upon re-moving the glass formerly consumed, the edges were found to be all round-ed and smooth. Surely then whole grain may enter the rations for our laying hens. Moreover, this grinding process creates increased heat, stimulating circulation and promoting activity which is always evident in a good laying flock.

good laying nock.

The true value of any food depends upon its digestibility. From a chemical standpoint a food may contain all the requisites for fattening poultry for egg production but yet prove to be quite invaluable Lecause of not be-ing readily digestible. Nitrogenous food such as meats should be liberally some as meats should be liberally supplied. Other important constitu-ents of the food are proteids which enter largely into flesh production and also into the composition of the egg. Proteids may be fed in the form of meats and milk (sour) or hutto-

### Useful or Good Sports

Commenting upon the educative work accomplished through plucking and dressing contests, and other de-monstrations given by the "Poultry Producers of Eastern Canada," at the

Producers of Eastern Canada," at the recent Quebec Provincial Poultry Show held in Montreal, a Quebec French Daily editorially says:
"Everyone is free to think as he wishes on the subject but we are of opinion that if the enthusiasm, energy opinion that if the enthusiasm, energy and the provincial elements wasted on sports applied to creating and subtissa-were applied to creating and subtissa-ing useful, educative and bleasant were applied to creating and sustaining useful, educative and pleasant
sports such as have been carried on
during nearly a whole week at the
Poultry Exhibition, agriculture in
the country, household economy in
cities, trade everywhere, welfare in
town and country would draw from
them many advantages, of which neces them many advantages, of which poor as well as rich families would benefit, as well as rich admired with a second real and actual turn of mind of the people would lose nothing by cultivating such sports.

"And again the favor with which the public has appreciated those de-monstrations of the Poultry Produc-ers' Association ought to induce agricultural Societies and particularly Poultry Associations to make use of the same methods of educating ole in such an attractive and plea sant manner."-F. C. Elford.

### Does it Pay to Buy or Sell Pullets?

F. C. Elford, Macdonald College F. C. Etford, Macdonald College
Whether there is more money in
buying pullets or in selling them is
a question worth considering. This
fall some were willing to sell their
early pullets at \$1.00 each and many
more were willing to pay the price.
If both parties had accommodation
for these nullets which yade the work for these pullets which made the more out of the contract? Of course much depends upon local conditions includdepends upon local conditions including the man or woman who locks after them. To give some idea as to which paid the better, we bought 50 white Wyandotte pullets in October 1908 and kept them through the wincher till May 1909; \$1.25 was paid for each pullet and each bird was sold in the spring for \$1.00. How much did the pen make or loss or what would have been the profit or loss under ordinary farm conditions? The birds were not sufficiently matured when bought and did not begin to lay when bought of the common, possibly because the parent stock had been forced for egy preduction. They were housed in when the present was at times lem. The went of the property was at times lem. The temperature was at times low. ing the man or woman who looks af-



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ere fed nothing but dry feed and fed grain only once a day. A hopper of dry bran was before them at all times. A mangel was thrown in to them once a day and they had snow or water to drink. This grain consist-ed of wheat, corn, buckwheat, barley and oats. They had grit, shell and beefcarps always available. The feed cost about \$1.40 a cwt., and dur-ing the seven months, they consumed the seven months, they consumed the seven months are seven as a seven belief to the seven the seven as a seven belief to the seven the seven the seven the seven of the seven months, they consumed the seven months are seven to the seven the seven of the seven months of the seven the seven the seven of the seven months of the seven the seven the seven the seven the seven months of the seven times. A mangel was thrown in to 54 eggs each, a comparatively poor yield. These eggs brought when sold for eating purposes, \$117.94, so the actual balance sheet stood:

Dr. 50 pullets at \$1.25......\$62.50 7 months feed ......\$42.00

Total expenditure \$104.50 Cr. 228 dozen eggs at various prices from 40 to 60 cts. \$117.94 48 hens (2 dead) at \$1.00, \$48.00

Total receipts..... Leaving a balance of \$61.44 or 20 per hen.

The selling price of the hens may have been a little high and more than have been a little high and more than have been a little high and more than was the buying price. Had these hens been killed and sold at 60 cents each the balance would still have been \$42.24. Take the selling price and buying price away and the eggs sold for \$74.94 more than the feed cold or \$1.25 for each hen. True, the eggs sold for a high price, more than an ordinary farmer might get but on the other band the feed cost more too. The contract of the contract of the farmer paid the same attention to his new laid eggs that we did, whether he would not get good enough a price to make the margin as great. According to this experiment and others I am of the opinion that early

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pullets of a good utility breed at \$1.00 each, are good property for any person if he will only give them or-dinary care, and business principles are adhered to in disposing of the

### Poultry Pointers

Many a hen that is otherwise well fed may fail to lay on account of lack

For laying hens the nest boxes should be so arranged to be plentiful and in a semi-dark place in the poultry house.

The trap nest picks out the layers, sorts out the drones, and is a system for better breeding for higher egg laying strains.

Lands sloping to south or south-east and a light soil which dries quickly after a rain are best suited for the

ultry farm. The trap nest equipment treeding pens is a good proposition to consider. Every breeder who possibly can should install trap nests.

Of all floors, the dirt is preferable if well drained and raised from ten inches to one foot above the outside earth, and the cost is much less.

The poultrymen who cannot get a reasonable number of eggs every month in the year cannot hope to secure the highest-paying trade.

Poultry houses should contain light enough so the hens may find grain in the litter on cloudy days. Too much glass is needless and is an extra cost.

A nice check from the commission man is worth a lot more than goods out of a huckster's cart. Send your eggs and get a check or two this sea-

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FARM AND DAIRY PETERBORO, ONT.

### RETAIN OUR LIBERTY OF SPEECH

No movement connected with agriculture in Ontario is more encouraging than that which has taken place in the past couple of years in the organization of over 100 farmers' clubs. This shows that as farmers we are beginning to realize that the time has come when we must organize in order that we may assert ourselves as a class, on the public questions of the day.

There is one feature connected with the formation of these clubs, that we have mentioned before and which we do not like. The clubs are receiving government grants. In return for these grants they have to pledge themselves not to discuss questions of the day that may be political in nature. This is a time when our farmers should be discussing the navy question from all standpoints, and making their views known. If the 100 or more farmers' clubs in Ontario were to announce their views, the government would be quick to take notice of the feeling thus expressed.

As it is, our farmers' clubs are not

nature, because it is a political question. Is not this "selling our birthright—liberty of speech—for a mess of pottage?" The labor unions prize their liberty of speech too much to sell it for the privilege of drawing a government grant. Why should we farmers humiliate ourselves by doing so? Have we not enough resourcefulness to raise the small sums we need to keep our clubs going?

Farm and Dairy sees no objection to our dairymen's, live stock, fruit growers' and similar organizations receiving government grants. They are engaged purely in educational work, and their efforts are confined to special lines of labor. Farmers' clubs are in a totally different class. The members of our farmers' clubs should be free to discuss every question affecting them, that may come up for consideration. In organizing these clubs, the Ontario Department of Agriculture has shown commendable enterprise. This is a case, however, where we should refuse its assistance and act for ourselves.

### PUSHING RE-FORESTRY MATTERS

Much credit is due the Council of the United counties of Durham and Northumberland, Ont., for the enthusiastic and statesmanlike manner in which it has pushed the Forestry question as it pertains to the waste sand lands within the bounds of the Counties. The Council, through Warden A. A. Powers and the Agricultural Committee of the Council, is especially to be congratulated in having been able to secure from Dr. Fernow of Toronto University a practical formulated scheme of reforestation that is adaptable to the areas in question. The estimates, made by Dr. Fernow, although, as he said, most conservative, show that the waste sand lands of which there are 15,000 acres in these Counties would, if reforested according to the comprehensive scheme that he suggests, provide in from 60 to 75 years a revenue sufficient to cover the total expenditures of the Counties.

The proposition as advanced is one that must appeal to all within these Counties. It is a straight business proposition of dollars and cents. While it is true that the scheme is a "long winded" one, and as such not readily acceptable to us as Canadians, who, for the most part, are inclined now to work on the get-rich-quick principle, still we must be patient. We must learn to wait, which virtue the French, the Germans and the Briton have demonstrated to be the most profitable policy in the long run.

Since the Province as a whole and our people of the future will be the most benefitted, Dr. Fernow's proposal is to finance the matter in such a manner as to place on them the largest burden. His proposition in short is "The expropriation of these lands on behalf of the Counties, the property to become vested in the Counties; the Legislature to provide the funds for the expropriation proceedings as well as for planting by issuing long term bonds for tutes are largely responsible for this.

sponsible, guaranteed by the Prov- | conditions in our farm homes generince with a lien against the land. Thus the future generation, which reaps the benefit, will be responsible for the discharge of the bonds when the property itself is able to repay them."

Naturally it would not be practicable or even desirable to plant the whole area at once. Dr. Fernow suggests a 30-year campaign, requiring on the average the annual planting of 500 acres, the rate of progress to be varied as opportunity makes advisable. The problem is a large one. It is, however, quite within the possible and looks decidedly small beside the reforesting work of France and Germany. If, as Dr. Fernow claims, these wastes can be so managed as to yield, in a reasonable period, a revenue sufficient to cover all expenditures of the United Counties of Durham and Northumberland, the scheme merits most hearty support.

### THE WOMEN ON OUR FARMS

In the Household Department of this issue appears the conclusion of an article from our last issue, entitled The Tragedy of the Farmer's Wife.' This article was taken, with only some slight changes from the June issue of The Delineator. The conditions described are very much exaggerated. We can be thankful that they do not apply to the great majority of farm homes in Canada. We do not believe that they apply either, to any great extent, to the farm homes of the United States.

Nevertheless there is some degree of truth in the article. The fact that there is a larger proportion of women in our insane asylums from our farms than from any other class of the community, reveals conditions that cannot be ignored. It is such conditions as these, isolated as they may be, that afford ground for such articles as the one to which we refer.

While in a great proportion of the farm homes in Canada, our farmers' wives are as well treated and happy, as the women in our cities, still the fact remains that many women on our farms do not enjoy comforts and conveniences in their work to which they are entitled.

How many farms, for instance, are equipped with running water in the barns while lacking this convenience in the house? How many barns have been improved by the construction of windows to admit plenty of light while the homes have not been improved in the same manner? How many farmers' wives still struggle through the washday each week, without enjoying the assistance of such an inexpensive device as a washing machine?

There are sections in which the women still do a large part of the milking, washing the milk cans, and perform other laborious work, from which they should be exempt. would appear that, in some cases, the fault is with the women, inasmuch as they do not assert their rights. Fortunately, however, conditions are improving rapidly. Our Women's Instiwhich the Counties would become re- It is to be hoped that before long,

ally will be so far improved that contributors to city magazines will not have any grounds on which to write such articles as the one under consideration.

### EVIDENCE OF OUR NEED

Canada is face to face with one of the greatest problems, in the navy question, with which we have ever had to grapple. Once we begin to arm, like some of the other nations of the world, we will be saddled with an annual expense which will grow rapidly in extent as the years go by Letters Farm and Dairy has received from farmers in all parts of Canada show that many of our farmers are opposed to the proposed expenditure. Others, while not opposed, feel that the question needs more consideration than it is likely to receive. The fact is that as farmers we are perfectly powerless to make our views known. We should be doing so in no uncertain tone. Why do we not? Simply because we have no proper organization representing us as a class. We are so disorganized that we are led around by the nose by both political parties.

We have the Dominion Grange, but it is numerically so small that it does not carry the weight that it should. Farm and Dairy does not agree with many things advocated by the Grange. We have felt occasionally that the Grange is apt to be narrow in its views. Still, however, it is the only organization of the kind that the farmers of this country have. Instead of refusing to support it, because we may not agree with all of its views, we farmers should stand by it, attend its sessions, take part in its discussions and make it representative of us as a class.

As long as we fail to give adequate support to the organizations representing us as farmers, we may expect and will deserve to get only whatever the political parties see fit to give us. Is it not time for us to arouse ourselves? Do you wonder that Ontario has got only six farmers in the Dominion House?

### IT PAYS TO HAVE THE BEST

When Senator W. C. Edwards, of Rockland, Ont., paid \$6,000 some years ago for a Shorthorn cow, at public auction, many of the people who heard of the purchase, laughed at the investment. To them it seemed ridiculous that such an expenditure could ever be made profitable That it has proven so, is believed by Senator Edwards. Anyone who inspects his herd will see good reason for such a belief.

Stock from this cow, including the herd bull, as well as a younger bull now in use, have improved this herd to a remarkable extent. This stock, because of its breeding, sells at high prices. It has the quality and the herd shows it. While the initial price paid was high, the investment is being paid back with good interest through the progeny of this famous

When our leading breeders find it profitable occasionally to pay such high prices as this for an animal of

known merit and sizes how import ers we should se ble stock is kep herds. A comp spent in the pur bull of known individuality, in proves a wise e

### Receeeeeee Creamery Butter makers a

tions on matters re and to suggest a Address letters to 

### Creamery Me Dairy

Questions of vi ery-men were dis ery meeting held of the dairy bui on Wednesday of dresses were no whole time being sion which was v directed by the Parsons of Jarvin Dean delivered th in which he externakers and the merchants, cream ducers and other business, a most meeting was wel out.

The chief dair Frank Herns, ga of the creamery Ontario. Some relative to the cre given. "It had said, "that instr trons more exten Ontario, there are ing cream and in 16,985 patrons ser factories. With factories. With the work it is e ormous job it wo can hope to do is t who are not maki duce sanitary mill butter makers to visiting patrons a Shem wherein su-their best interest tendency on the get too close to th matter of moistur 284 tests made for was 14.66 per ce percentage was 14

GRADING

The discussion cream seemed to grading of cream our conditie isolated cases. was thought, were ing the grading a must of necessity What to do with butter, the comp creameries and th erage maker might handle second grad en as points agai Forester, manager Company, Hamilto pany at the Silve pany at the Silv. had in two years' the quality of the the creamery by ac grading. The plan to offer a bonu for sweet cream te cent. For sweet c 24 per cent, a bon allowed. Patrons produce good crear dollars and cents, known merit and breeding, it emphasizes how important it is that as farmers we should see that the best possible stock is kept at the head of our herds. A comparatively few dollars spent in the purchase of a pure-bred bull of known breeding and strong individuality, in 99 cases out of 100 proves a wise expenditure of money.

# Receeseseseseseses

Creamery Department
Butter makers are invited to said contributions to this department, to each contributions to this department, to each contions on matter relating to butter making
and to suggest subjects for discussion.
Address letters to Creamery Department.

### Creamery Meeting at Guelph Dairy School

Questions of vital interest to cream-ery-men were discussed at the cream-ery meeting held in the lecture room of the dairy building at the O.A.C., on Wednesday of last week. Set ad-dresses were not provided for, the whole time being given up to discus-sion which was wisely and effectively directed by the chairman, Mr. J. J. Parsons of Jarvis, Ont. Prof. H. H. Dean delivered the address of welcome in which he extended to the butter-makers and their assistants, butter merchants, cream haulers, cream pro-ducers and others interested in the business, a most cond'al welcome. The meeting was well attended and the discussions were of interest through-out. Questions of vital interest to cream-

#### WORK OF INSTRUCTOR

work of instructor, Mr. The chief dairy instructor, Mr. Frank Herns, gave briefly a report of the creamery business in Western Ontario. Some interesting statistics relative to the creamery business were given. "It had been suggested," he said, "that instructors visit the patrons more extensively. In Western Cotario there are 15.50 matrons send. trons more extensively. In Western Ontario, there are 15,307 patrons send-Ontario, there are 15,307 patrons sending cream and milk to creameries; 16,985 patrons sending milk to cheese factories. With only six men to do the work it is evident what an enormous job it would be to visit all of these 30,000 patrons. All that we can hope to do is to visit those patrons who are not making an effort to produce sanitary milk. Mr Herns urged butter makers to devote more time to visiting patrons and pointed out to butter makers to devote more time to visiting patrons and pointed out to Seem wherein such a work was in their best interests and would prove profitable. He drew attention to the 'endency on the part of makers to get too close to the legal limit in the matter of moisture. The average of 284 tests made for moisture this year was 14.66 per cent., last year the percentage was 14.33.

### GRADING CREAM

CRAINING CHEAM

The discussion on the grading of cream seemed to indicate that the grading of cream was impracticable under our conditions save a few isolated cases. Cream haulers, it was thought, were not capable of doing the grading and save where the individual cans were used, such work must of necessity fall to their lot. What to do with the second grade butter, the competition from rival contrage maker might not be trusted to handle second grade cream, were given as points against grading. Mr. Forester, manager of the Pure Milk Company, Hamilton told how his company at the Silver Creek creamery had in two years' time greatly raised the quality of the cream coming to offer a bonus of two contrages maker visits of produce good cream was a matter of grading. The plan adopted had been to offer a bonus of two contrages of the creamery by adopting a system of grading. The plan adopted had been to offer a bonus of two contrages of the creamery and the contrage of the produce good cream was a matter of dollars and cents, the result was that they cooled the cream and had it they could be creamed to the creamery the creamer

test over the 24 per cent. standard in test over the 2s per cent, standard in order that they might receive the two cent bonus. A more complete account of the discussion on this important subject will be published later.

CREAM HAULERS

On the instructing and equipping On the instructing and equipping of cream haulers, it was agreed that the scales should be used rather than the creamery pail and stick and that a good cream hauler was a valuable part of any creamery and should be retained in the business if only a little additional pay were required to seep him satisfied. Changing, cream nauliers, was a mistake to be avoided newliers, was a mistake to be avoided not not considered the seep him satisfied. Changing, cream nauliers, was a mistake to be avoided number of the company of the Silver Check creamery, was exhibited for the approval of the creamery-men present. creamery-men present.

INJUSTICE TO RICH CREAM

creamery-men present.

INJUSTICE TO RICH CREAM

That rich cream has not in the past got justice from the Babcock test where the pipette is used was allowed by all who took part in the discussion of this important question. Only by means of the scales was it possible to get a correct test with rich cream. Mr. Mack Robertson, creamery instructor, of St. Marys', said in this connection that there was not much seen to be considered to the connection that there was not much cream. Much experience in this connection was given. Mr. Harris said that he would not go back to the pinette since having used the scales. Formerly 25 per cent. of his patrons were kickers; now that number had been reduced to four or five per cent. He said that it took practically the same time to do the work with the same time to do the work with the side of Brussels the scales. Mr. Duridle of Brussels the scales for the control of the protect of the pipette did he have to buy the scales himself. With the pipette they had but four per cent. overrun whereas now with the scales they secure an overrun of 16 per cent.

SSO.37 MORE THAN EXPECTED 16 per cent.

\$93.37 MORE THAN EXPECTED

16 per cent.

\$83.37 MORE THAN EXPECTED

Mr. Morley Jackson, who is now
operating a creamery in Lambton
county gave strong evidence in
favor of the scales. Since October
the 6th, his factory has been shipping
cream to Port Huron. On 18 shipments of cream having a value of
\$1,500, which averaged 52 per cent.
butter fat, his Company had received
from the Port Huron firm \$97.37 more
than he had billed them for in checking them up by the test in which theing them to be the time was ripe for legislation on this matter
of the Babocok test. A resolution was
moved by Mr. Frank Herns that the
Dominion Government be asked to
encet such legislation as will ensure
properly graduated glassware, including thermometers, lactometers,
Babecok test bottles (both cream and
shabecok test for commercial purposes. Mr. G. G. Publow,
chief dairy instructor for Eastern
Ontario in seconding the resolution
and that he had found much glassware that was too far wrong. The
motion was carried unanimously.

MAKER VISTS PATRONS

As a means of seeking to improve



# IT HEADS THE LIST FOR ONTARIO

Prof. C. A. Zavitz, of the Ontario Agricultural College, Guelph, at the Annual Meeting of the Ontario Agricul-tural and Experimental Union last week, said that the "O.A.C. No. 21" barley stood at the head of the list above all other barleys in the Co-operative Experiments conducted on farms over Ontario, it having a lead of approximately two bushels an acre.

A Wentworth County, Ont. subscriber to FARM AND DAIRY, who grew "O.A.C. No. 21" and the common Mandscheuri barley side by side in the same field and on the same kind of soil, reports to FARM AND DAIRY a yield of 36 bushels an acre from the common Mandscheuri and 44 bushels from the "O.A.C. No. 21." A lead of eight bushels an acre for the "O.A.C. No. 21."

Have you taken advantage of the exceptional opportunity offered by FARM AND DAIRY to secure seed of this great improved barley? The offer is:-

Two Bushels of "O.A.C. No. 21" for only Four New Subscriptions to Farm and Dairy

One Bushel for Two New Subscriptions Subscriptions to be taken at \$1.00 each in both cases

The barley will be delivered F.O.B. Brantford, Ont.

Send in your subscriptions at once and claim your share of this great barley before the supply is exhausted.

CIRCULATION DEPT. FARM AND DAIRY PETERBORO, ONT.

was produced. He had found that most patrons were anxious to get in-formation and did the maker visit milk and then left a good profit most patrons were anxious to get in-formation and did the maker visit him, speak kindly, rather than scold, and show him wherein he is losing dollars and cents by producing such cream, that in nine out of ten cases a patron would make some improve-ment and this improvement would benefit the maker as well as the pro-ducer. Mr. Mack Robertson vouched for the good work that Mr. Keyes had done in educating his patrons. He said that whereas Mr. Keyes had brought the butter fat content of the cream received up from 17 or 18 per cent to 25 per cent, others whose cream averaged 18 per cent. fat still have the same average. Over 8,000 patrons send cream or milk to creameries in his district. It was difficult for him to visit them all, so he urged makers to do their part.

MORE CREAM ON SAME TERRITORY

More cream on same territory Creamery-men, it was advanced, were not on the right track in going over the other fellows territory to get cream when it can be got at home. We do not need the cream from more cows so much as more cream from the cows we have. In order to get patrons to produce more cream in a small radius, it was urged to take up in vigorous manner the work of cow testing. Mr. Publow told of the work he had done to find out what cows were doing in Eastern Ontario creameries... At one ceamery, the average for each cow was three pounds of butter a week. He said that it would appear that makers had not given this matter the attention that it deserved. He advised them to figure deserved. He advised them to ngure out the average production per cow and to present it to their patrons at their annual meetings. The plan ad-opted by the Dominion Government in paying five cents per test for testing cows in cow testing associations, was brought before the meeting and was given as an additional inducement for makers to push the matter of cow test-

AN INCREASED RETURN OF \$400 AN INCREASED RETURN OF \$400
Prof. H. H. Dean in discussing
the matter of the pasteurization of
cream, said that at the College creamery they had followed the practice of asteurizing since 1895. He stated that they had received an increased price for butter due to having followed the practice of pasteurizing.

Name of Animal and Exhibitor.

milk and then left a good profit be-sides. They had received an increas-ed return of \$400, this past year over and above what they would have re-received had they not pasteurized, this profit being figured on the basis of a one-half cent net increase for the pasteurized article. At a one cent increase in price, the amount would be twice as great.

Cheese Department
Makers are invited to send contributions of the total send contributions of the surgest and the send contributions of the surgest surgest and the surgest su

### Mr. J. R. Dargavel Honored

"That we the dairymen of the County of Leeds in meeting assembled in Town Hall, Leeds and Lansdowne Front, desire to place on record our appreciation of the valuable services appreciation of the variance services rendered this Province by Mr. J. R. Dargavei, M.L.A., first as Director and later as President of the Eastern Ontario Darrymen's Association. We feel that a great deal of the legislation for the benefit of the dairymen, especially the giving of free instruc-tion to cheese factories has been brought about by his efforts and in-

brought about by ins several problems.

"And further, we strongly recommend that the said Eastern Ontario Dairymen's Association, at its first meeting, appoint Mr. Dargavel an Honorary Director of this Association, so that they may still retain the benefit of his experience and in-

Such was the resolution passed with hearty unanimity by the dairymen in assembly at a special dairy meeting held at Lansdowne, Ont., recently. Mr. Dargavel resigned from the di-rectorate of the Eastern Ontario Dairymen's Association after the nom

reply to it. On his behalf Mr. Free-Britton of Gananoque replied man Britton of

The resolution of appreciation was not only gratifying to Mr. Dargavel but was unusually well merited. It is not probable that any member of the Ontario Legislature has done more for the dairy industry of Ontario of recent years than Mr. Dargavel. He has serred upon important agricul-tural committees and his advice is always sought by the Government on always sought by the Government on laways sough the proper his proper of the property of the property of the property of the being considered particularly sound.

# Dairying in Listowel District

Jas. R. Burgess, Instructor, Listowel Ont.

There are 36 factories in Listowel. Ont., group with 3,350 patrons making in 1908, 2,552 tons of cheese. The average per cent. of fat in the milk average per cent. of fat in the must for the season was 3.6 per cent.; the average loss of fat in the whey for the season, 21 per cent. Made 94 full day visits, and 75 call visits, 26 patrons were visited and 453 new milk cans bought. There are no factories in this section making whey butter, leaven façlories are pasteurizing the eleven factories are pasteurizing the whey, practically all doing a good job. \$2,449 was spent in improvements, with one new factory costing \$5,000.

The past season has been one of The past season has been one of the best we have ever had. The out-put of cheese was not the largest but

put or cheese was not the largest out up to the average.

The quality of the cheese has been fairly uniform and I am satisfied that it never was better. At some fac-tories, I find the cheese perhaps just tories, I find the cheese perhaps just a little firmer or not quite as smooth as at others. There are different causes for this; sometimes the curing rooms have a good deal to do with it, sometimes it is caused by the method of handling curds at crtain stages, at cutting, cooking, dipping, milling or condition of salt and quantity used.

Every cheese maker in this district or \$400
discussing intation had been offered to him and intation of bleen offered to him and prization of blego creamman of Wilstead was chosen as the practice of stated that:

Mr. Dargavel was very much gratified and affected by the warm expresion with the solution of the services. This pro- so much so that he felt unable to so that he felt unable

# LOOK

The two upper pictures show lutely all there is to the light, simple, sani



simple, sani-tary Sharples
Dairy Tubular Cream Separator bowl. It can easily be washed perfectly clean in three minutes and has twice the skimming force of common bowls. Wears are. The World's Best.

The lower picture shows a common, disk-filled bowl with 42 disks. Other sorts are about equally bad.

Simplicity is only one of many Tubular advantages. Do you wonder that Tubular sales exceed most, if not all, others ceed most, it not all, others combined? That Tubulars probably replace more common sepa-rators every year than any one maker of such ma-

sells? The manufacture of Tubulars is one of Canada's leading industries.



Write for No. 253

THE SHARPLES SEPARATOR CO.

Toronto, Ont., Winnipeg, Man.

### -WE MANUFACTURE -

Steel Cheese Vats, Steel Curd Sinks, Steel Whey Tanks, Steel Whey Leaders, Whey Butter Tanks, Water Tanks, Stee Smoke Stacks, Galvanized Ventilators, Cheese Hoops. Everything guaranteed Write for new Catalogue

The Steel Trough & Machine Co., Ltd Tweed, Ont., Can.

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

FOR SALE.—One of the best cheese fac-tories in western Ontario. Making tories in western Ontario. Making about 160 tons cheese. Near Londoff. Good reasons for selling.—Apply Box 40, Farm and Dairy, Peterboro, Ont.

FOR SALE. — Good cheese fateory, house and lot. Large make, good locali-ty. Box G, Farm and Dairy.

much acid. A culture is most vigorous with an acidity of .6 to .75 per cent., not over .8 per cent. Too much care cannot be taken in preparing and making a culture, it is useless to go to the trouble of pasteur;zing milk for a culture, unless everything that comes in contact with that milk is clean and sterilized.

is clean and sterilized.

The sanitary conditions generally, are good. In a few cases factories will require new floors before commencing another season. The whey tanks at some places are not kept in as good condition as they should be, but it is difficult to keep them sweet with the control of the contro

pasteurize the whey.

There are four cool curing rooms in this district and each one is giving good satisfaction. There are a num-ber of the largest and best equipped good satisfaction. There are a num-ber of the largest and best equipped factories that have very poor curing rooms. The building of better cur-ing rooms and the proper pasteuriza-tion of whey are two very important and progressive steps hat should be taken by more of our factories.

"I consider Farm and Dairy the best farm paper I have ever taken." —Fred Halpany, Manitoba.



HERE were the train— light on C porter strolled holding the ye though women st ed up sharply, the name of M There remained t Archimedes-and a dozen hand bag estiered about scattered about only occupant we apparently choles them an who gle when the porter r for Miss Janet V retorted: "Do I Miss Janet Ware not precisely an apparently satisfied did not, and dining car. dining car.

among them a bro sufficiently attrac to look upon, es unfortunate enou upon Christmas therefore been rec of silent attention her cheeks and th of her demeanor. unpleasant a Christmas morning two hours more of Telegram for

were a do

The young lady seat, all the color is outblown and her outblown and her with fear. The p ward, put the to plate, and waited pulled open a sil him a coin witho and then tore oper stantly the color her cheeks, and, gram in her hand, waiter for her bi "How aron de w How soon do w

she asked. Her but the sternness w In half an nesubmissively. "Thank you," sh the tray made his "Thank you, mis-Christmas, miss," h marvelous feats in

longings first, that them to her. The her face softened e "It is so nice to said. "I didn't e hours yet. I hope many of them."

### The Dairy Test at the Ontario Winter Fair, Guelph HOLSTEINS

riding of minima and partitions.	99	**	** ***	100	-	
Lbs.	Per cent.	Lbs.	Lbs. solids	Points	Points for	
Cow, 48 months and over: milk,	fat.	fat.	not fat.	for fat.	solids not fat	points
1 Aggie De Kol 4127, M. L. Haley, Springford216.20	4.3	9.296	18.549	232.40	55.64	288.84
2 Ianthe Jewel Mechthilde 3rd, M. L. Haley, Springford 207.89	3.9	8.107	19.767	202,67	59.12	
						261.79
3 Evergreen March, G. W. Clemons, St. George210.26	3.8	7.989	17.367	199.72	52.10	252.72
4 Lina Netherland Abbekerk, H. Bollert, Cassel243.31	3.1	7.542	20.973	188.55	62.91	251.46
5 Pudmina Hartog De Kol, H. Bollert, Cassel	3.5	6.678	17.67	165.95	51.21	219.45
Cow. 36 months and under 48:				200120	01.01	613.40
1 Elloree 6959. James Rettie, Norwich	3.7	7.129	17.419	170.00	*** **	
				178.22	52.25	230.47
2 Utica Alice 6452, M. McDowell, Norwich 158.32	3.8	6.616	15.76	150.4	47.28	197.68
3 Olive Schuiling Posch 6960, James Rettie, Norwich148.19	3.9	5.779	14.077	144.47	42.23	195.50
4 Lady Calanthus De Kol 6451, M. McDowell, Norwich 146.96	3.9	5.731	14.37	143.27	43.11	186.38
5 Mysie 6551, A. E. Hulet, Norwich	3.5	5.221	13.64	130.52		
Heifer under 36 months:	0.0	U-mort	19:04	100.04	40.92	185.44
1 Queen Butter Baron 7652, M. H. Haley, Springford159.96	4.3	6.878	14.972	171.95	44.91	217.76
2 Mercena, Artalissa 9987, M. H. Haley, Springford126.39	4.6	5.813	12.158	145.32	36.474	181.79
3 Pietertje Poem 2nd 7927, James Rettie, Norwich 158.12	3.2	5.059	14.00	126.47	42.00	168.47
4 Mercena Jewel 9081, James Rettie, Norwich	3.1	5.012	13.88	125.3		
4 Mercens Jewel 2001, James Retries, 100 with					41.64	167.04
5 Sarah De Kol Veemaa 11219, P. D. Ede, Oxford Centre 154.07	3.2	4.930	13.311	123.25	39.933	164.88
AYRSHIRE	S.				175 16	
Cow. 48 months and over:					111 1111	28.
1 Victoria 13788, H. & J. McKee, Norwich	4.3	7.172	16.44	400.0	44.44	
				179.3	49.32	228.16
2 White Floss of Brookside 26189, H. & J. McKee, Norwich161.99	4.4	7.127	15.92	178.17	47.76	227.03
3 Jubilee of Hickory Hill 23480, N. Dyment, Clappison150.81	4.2	6.334	14.477	158.35	43.43	201.78
4 Fairy of Hickory Hill 24579, N. Dyment, Clappison137.44	4.6	6,322	12.878	158.05	38.634	196.68
5 Susie of Hickory Hill 22336, N. Dyment, Clappison153.11	3.9	5.971	14.132	149.27	42.39	191.66
	0.5	0.212	14.100	149.61	46.09	191.66
Cow, 36 months and under 48:						
1 Queen Jossie of Spring Hill, H & J. McKee, Norwich133.00	4.6	6.188	13.127	152.95	39.38	192,33
2 Star Sarah 21541, H. & J. McKee, Norwich	4.1	5.635	13,427	140.87	40.28	181.15
3 Snowdrop of Hickory Hill, N. Dyment, Clappison 89.94	3.5	3.147	8.22	78.67	24.66	111.93
Heifer, under 36 months:				10.01	87.00	111.90
1 Beauty of Hickory Hill 27663, N. Dyment, Clappison121.75	4.2	5.113	11.61	127.82	20.04	
1 Beauty of Hickory Hill 27665, N. Dyment, Chappison					38.84	162.66
2 Scottie's Victoria 23675, H. & J. McKee, Norwich 94.75	4.1	3.884	9.257	97.10	27.77	133,17
3 Scottie's Nancy 24265, H. & J. McKee, Norwich 92.77	4.2	3.889	9.002	97.4	27.24	126.34
						4000
GRADES						
	•					
Cow, 36 months and under 48:			The state of			
1 Ethel, M. H. Haley, Springford	3.9	6.106	13.66	152.65	40.98	193.63
Grade Heifer, under 36 months:						
1 Duchess, H. J. Benfield, Woodstock	3.5	5.370	14.44	134.25	43.27	177.52
2 Peter G., M. McDowell, Norwich	4.2	3.723	8.457			
Z Peter G., M. McDowell, Notwick	7.2	0.723	0.457	93.078	5 25.371	118.44





THIS old world is turning around mighty fast, And even great troubles can't have long to last; So when it is darkest and trials abound, Just cheer up and wait till the bright side comes 'round



# A Christmas Stop-Over

By Mabel Nelson Thurston

THERE were two day coaches on the train—passenger trains run light on Christmas Day. The porter strolled through them both, holding the yellow telegram, but though women started and men glaned up sharply, nobody answered to the name of Miss Janet Wareham. There remained the sleeper christened Archimedes—and the dining car. Half a dozen hand bags and suit cases were a dozen hand bags and suit cases were settlered about the sleeper, but the settlered about the sleeper, but the settlered about two sleepers and the sleepers with the settlered about the sleeper, but the settlered about the sleepers will be settlered to be settlered about the sleepers will be settlered to be settlered about the sleepers will be settlered to be sett HERE were two day coaches on

dining car.

These were a dozen people in there, smong them a brown-eyed young lady, smooghally attractive to be pleasant smooth them a brown-eyed young lady, smooth them a brown-eyed young lady, smooth them are to be travelling upon Christmas more than the travelling upon Christmas which may have accounted for the charming color in her cheeks and the extreme alcofness of her demeanor. It was most annoying, unpleasant and unsersonable to travelling alone at that, upon Christmas morning, but she had but two hours more of it and then—"Telegram for Miss Janet Ware-lam."

ham,"
The young lady started from her seat, all the color in her face suddenly outblown and her brown eyes wide with fear. The porter, stepping forward, put the telegram beside her plate, and waited. She nervously pulled open a silver purser, handed him a coin without glancing at it, and then tore open the envelope. Instantly the color surged back into gram in her hand, the notided to the waiter for her bill.

"How soon do we reach Trentle?"

"How soon do we reach Toronto?"
the asked. Her voice was stern,
but the sternness was not for him. In half an hour, miss," he answer-

"In half an hour, miss," he answered submissively,
"Thank you," she returned regally,
but the tip that she was leaving upon
the tray made his eyes shine.
"Thank you, mis, Wish you Merry
Christmas, miss," he said, performing
marvelous feats in securing her belongings first, that he might offerthen to her. The girl stopped, and
her face softened enchantingly.
"It is so nice to hear that," she
said. "I didn't expect to for two
hours get. I hope that you will have
many of them."

By the time she had reached her seat, however, the sortness had retreated before a mounting indigenation. It was presuming of him to send that telegram as if he couldn't take care of herself stream of the seat of herself the s she couldn't take care of herself or-a rigid honesty challenging that state-ment as if she had given him any reason, to think that she wanted to be met at Montreal. She leaned back, planning the telegram that she should send in reply. She could send it from the train, but so long as she

repeated. "It went out five minutes

repeated. "It went our new minus ago, miss."

But I thought we waited here half an hour," she cried. "I came on the Western express. The time-talles gave me half an hour surely."

The gatekeeper's voice became distinctly sympathetic. Perhaps it was because he was undergoing the rare experience of having nothing to do, or perhaps it was the influence of the perhaps it was a pair of the perhaps in the perhaps it was a pair of the perhaps in the perhaps it was a pair of the perhaps in the perhaps it was a pair of the perhaps in the perhaps it was a pair of the perhaps in the pe

access not seen for trouble. Whatseed in a manner
arrely knew share and the conarrely knew share and the conarrely knew share and then pulled
out. Somebody ought to have told
your.'
If should have looked for myself,'
Janet answered, bravely struggling
with the coning share and the coning

Three-may carriery there is one carlier than that!"

"Not to Montreal, miss—
"Not to Montreal, miss—
that's a side line. There are plenty to Smith's Falls, but you'd have to wait there just as long."

Thore were almost tears in the prown eyes now; the grif forced them back and tried to thank the man back and tried to the prown when the man back and the man back and the composed to the man to the total tried to the man to the man tried to the

morning. She could take a car ride or a cab. The magazine slipped from her fingers and she looked around eagerly, she was not used to be concluded to the conclusion of the co

measure of years in common, she went across to the girl.
"Are you stranded on Christmas Day, too?" she asked, her manner full of pretty apology. "I hope you don't mind my speaking to you; it is so dreary to be all alone. I just missed connections and have nearly six hours it wast?"

to wait.

The girl glanced at her, half embarrassed, half defiant.

'I ain't waiting for any train," she

"Oh, you are waiting for a friend,"
Janet interpreted. "That makes a
very different matter of it doesn't

The girl shrugged her shoulders.
"I aim't waiting for friends either. I came out to get away from Mame—Mame was in one of her tantrums this morning. She's my sister-in-law, and I live with them, but I aim't going to any longer, not fif takes my hot-girl and the everlasting nagging. I'd hand the everlasting nagging. I'd she to Bim."
"Who is Bim?" asked Janet. "Do you mind telling me?"

"Who is Bim?" asked Janet. "Do you mind telling me?"
"Bim? He's next to youngest, and he's lame. He thinks I'm all right, Bim does, and I guess he's the only one in the world that ever did. Fye stood a lot for Bim's sake, but I can't stand things any longer, and I won't. For her to jaw me like that—oh, itself. The same weet Christmas I'm navung!"
Into Janet's face came a sudden eagerness.

eagerness.
"Oh," she cried breathlessly, "I wonder if you would do something for

only, she cried breathessty, "I wonder if you would do something for me-pou and Bim?" he girl stared. "Me and Bim?" he girl stared. "I guess! It looks like it, accentical?". "I guess! It looks like it, and all alone for hown, and I don't know a soul in the city and don't know a soul in the city and don't know a what in the world to do to pass the time. Won't you let me take you and Bim for a ride? Maybe you know some little uptown stores where we could buy some things—or let Bim buy them—don't you? Oh, couldn't we? You don't know how I'd love to."

The girl's eves, no longer listless now, but shrewd and searching, travelled over the other girl, no detail escaping her.

caping her.
"You must be a queer one," she remarked.

## Remember Your Friends

It is time now to decide your Obristmas gift to your friends. It is time now to decide your Obristmas gift to your friends. It is becoming more popular every year, to send to our loved ones, remembrances that will constantly remind them of our thoughtfulness and love,—all through the year to come. What better gift, than one that will remind them every week of your interest in them? Let us suggest a novel and choice gift.

A Year's subscripting to Every the control of the control of

A Year's subscription to Farm and Dairy should be a most valuable gift for your neighbor and one that will result in much good to him and his family. Send us the name and address of the friend to whom you desire to send Farm and Dairy for year, together with \$1 and we will send them, so that it will reach them on Christmas morning an attractive Christmas eard, showing the you are sending them Farm and Dairy for one year, as a Christma For We will also at the same time renew your own subscription FREE for 6 months. For two such gifts we will renew your subscription FREE for a year. Decide at once. Avoid the rush at Christmas. We are busier then, and so are you. Send us the name to-day and we will do the rest. Address Christmas Editor, Farm and Dairy, Peterboro, Ont.

For two such gifts we will renew your subscription FREE for a year.

Decide at once. Avoid the rush at Christmas. We are busier then, and so are you. Send us the name to-day and we will do the rest. Address Christmas Editor, Farm and Dairy, Peterboro, Ont.

had to change cars at Toronto, straight and a tiny frown dinted the sure would be a satisfaction in seeing brows.

That means that she was thinking aericusly and determinedly. As the

young woman, in an extremely stylish and becoming brown travelling suit, stood before the telegraph window writing something rapidly upon a

"Mr. Robert Dudley, Montreal: Certainly not.'

She pushed this through the window paid the charges, and then walk-own paid the charges, and then walk-own paid the charges, and then walk-own paid the charges are supported by the charge of the cha Janet Wareham about that—but where were the crowds, the train announcer, and where was her train? Her glance sped down the long row of closed gates with, beyond them, stretch af-ter stretch of empty track. There was but one gatekeepes in sight; she hurried over to him "The train for Montreal?" ne

brows.

That means that she was thinking seriously and determinedly. As the result of her medication, she went to the telegraph stand again, and sent of the telegraph to Montreal. That declegram to Montreal. That does, ahe stood a moment fingering the pad, but presently pushed it from her and turned away decidedly. Her own stupidity had got her into this, and she was not going to ask anybody to help her out, especially, anybody who

who—
A stronger determination came into her step, and she lifted her whin valiantly. It was a very pretty chin; it was a pity that there was nobody as see and appreciate it; but them as the parcel room where she went next to check her bag and umbrella never even glanced at her as he tossed the check across the counter. Which shows how we miss opportunities in life. see and appreciate it; but the man set the parcel room where she went near the parcel room where she went and the parcel room where she went the parcel room where she went thank the seek her bag and umbrella there even glanced at her as ne tossed the heck earoes the counter. Which how sheek across the counter. Which how sheek across the counter. Which was now four time. These transactions had taken exactly seven minutes. It was now four minutes of the waiting room to think it out. The waiting room to think it out. Any other day she could have gone to the library or even the museum, but everything was closed Christmas

"My soul, you ain't going to ask her, are you?" the girl cried in disgust

"I'm going to ask her," Janet re-irned. "I must confess that my turned. hopes are not very flourishing. She doesn't look precisely what one might call responsive. But sent, it's Christmas Day, and one can only try. You don't feel moved to try for me, do you

"Not on your life," the girl replied emphatically.
"I suspected as much," Janet sighed. "Well, I can do no more than

She crossed the room to where the lady in question sat submerged in bundles, or as nearly submerged as a person of so much evident character could be. The conversation was excould be. The conversation was ex-tremely brief; in less than a moment Janet returned.

Janet returned.

"Got turned down, didn't you?" the
girl asked curiously.

"I suppose that that is the name of
the process. She told me that when
she wanted to take rides, she was capable of taking them by herself."

"Well, that's just what she looks
in the she was the she was the
girl's voice was full of satisfaction, and vet beneath the words Janet

tion, and yet beneath the words Janet detected a dim spirit of championship that warmed a little the wide empty morning. She smiled brightly back

morning. She smiled brightly back at the girl.

"Now for Bim," she said. "I was going to get him some candy, but maybe he'd rather have a different kind—these aren't exactly boys' candies here, are they?"

A flash passed over the girl's face; A flash passed over the girl's face; a flash passed over the girl's face; the said output and interpreted it as quickly as it came, as quickly indeed that there was not a break in her sentences. sentences.

"But you and I-that's different uppose we get some for ourselves?"

The candy stand furnished a box of The candy stand rurnished a box of Huyler's—two, indeed, for Janet suddenly remembered the matron. She was turning away when the florist's stand suggested the next thing. She thrust the candy into the girl's hands and hurried—ahe was always an impaintent creature—on to their returning. tient creature—on to that, returning a moment later with three clusters of violets.
"One for you and one for me and

one for the matron," she explained. "To think of doing one's Christmas shopping in a railway station! Isn't it

runny?"
The girl eyed her violets curiously.
"Say—you must have money to burn,"
she exclaimed. She began pinning
the violets to her shabby jacket, then
pulled them off, half shamefaced, half
defiant.

defiant.
"I reckon I'll go and give a slop to
my hair," she said. "I had such a
grouch on this morning that I didn't

care."
"All right," Janet nodded. "Don't
hurry—there are hours, you know."
She slipped a cluster of violets beneath the gold string of one of the candy boxes and went over to the ma-

eandy boxes and went over to the matron with a pretty pies for their acceptance. The matron was not the grim old lady with the bundles, and her interest was quick and vivid. "It surely is too bad for you," she declared, when Janet had explained the situation, "and there ain't any-body here to help you out, I'm afraid. It's always empty on Christmas Day. Other times there are rafts of children."

Other states

"I've found a girl that's going to
get a child for me," Janet replied.
"Here she comes now. Good-by. I'll
be back before three. I mean to stand
on the track and hold up the next
"if for meansary." train if necessary

She met the girl at the outer door— a transformed girl. It wasn't the vio-lets nor the pompadour, now restored to all its impressive magnitude. It was the air. The girl winked grave-

My stars, won't she open her eyes, though! Say, which is your carriage?"
"I'm going to choose," Janet answered promptly. "This is a Christmas-y horse and driver. What do you say to that fifth one? Don't you you say to that fifth one? Don't you think his mane looks more festive than the others? Or," with a sudden inspiration, "would you rather have an auto? We can phone for a taxi if there isn't anything here."

"Say" the girl cried, "do you mean it?" A toother for wine over time!

"Say," the girl cried, "do you mean it? A tooter for mine, every time! Gracious, Bim will almost jump out of his skin!"
"In that case," Janet laughed, "a

taxi we must have, by all means. And here, by a Christmas chance, is one this minute, so we shan't have to wait

—that is, if it isn't engaged."

(Concluded next week.)

### The Upward Look Keesessssssssssssssss

### The Steps to Take

Repent ye, and be baptised every one of you in the name of Jesus Christ unto the remission of your sins,

and ye shall receive the gift of the Holy Ghost. Acts 2, 38.

Christ told us to seek first the kingdom of God and that afterwards all things would be added interval any control of us find i difficult to follow the injunction. We are so occupied with our daily tasks and with the cares that surround us that we allow Christ to be crowded out of our lives during the greater part of the day at least if not for days at a time. When this is the case we have not got the gift of God's Holy Spirit. Only as we grow to know God better and better and one of the case of the case we have not got the gift of God's Holy Spirit. Only as we grow to know God better and better and more, do we find how much more we are able to accomplish when we cast all our cares on Him and look to Him for the strength and guidance that we need. Then we begin to discover within ourselves a power not our own but infinitely greater. things would be added unto us. Many

cover winh ourseries a power not our own but infinitely greater.

Before God will give us this power we must do our part. If we ask for it He will give it to us but we must ask for it in the right way. We must be intensely in earnest when we make our neitions and we must be willion. our petitions and we must be willing to set aside everything in our lives God's that may be displeasing in

sight.

Our first duty is described in the text. We must repent. Instead of following our own desires we must be willing to set them aside, gladly if need be, and accept Jesus as our Christ and Lord. We must submit ourselves unto Him absolutely in order that He may do with us whatever

der that He may do with us whatever He may deem best even if it does not seem best to us. Our wills must be submitted unto His. We must repent, also, of sin. All sin, every sin. As far as possible we must remove every sin out of our lives and in this we must ask God to help us. As long as we hold on to some Ittle sin, no matter how small it may seem God will not send His Holy Spirseem God will not send His Holy Spir-in into our lives. We must choose be-tween cleaving unto sin or cleaving unto God. In this, also, we must ask for the Divine assistance. We should go alone with God and ask Him to search us thoroughly and bring to light anything that displeases Him. (Psalm 139: 23, 24). Then we should wait for Him to do it. When the displeasing thing is revealed it should be put away at once. It may be necessary for us to forgive some one cessary for us to forgive some one for an injury that they have done us. We may have to make right some wrong that we have committed. Often the fear of confessing an old sin pre-

God, absolutely in all things. If God sees that there is anything in our life that we prize so much that we allow it to crowd our duty to Him into the that we prize so much that we allow it to crowd our duty to Him into the background then that is the thing He may ask us to relinquish. There The may ask us to reinquish. There may be no harm in the thing itself. The harm consists in placing undue importance upon it. Christ, for instance, loves to shower riches and nonor on those who sove Him and nave faith in Him but when He finds honor that we are beginning to set too high a value on riches or honour He may ask us to give them up just as He did with the young rich man described in Matthew 19; 16, 22, whom He commanded to go and sell all his possessions. This young man refused to obey the Lord's injunction and, theresions. obey the Lord's injunction and, therefore. He went away sorrowful.
"Here," says Dr. Torrey, "we touch upon the hindrance to the baptism with the Holy Spirit in many lives; there is not total surrender, the will is not laid down, the heart does not consider the will be the surrender when the will what the surrender when then will what the surrender that the surrende rey, "Lord, where thou wilt," what thou wilt, as thou wilt." There is nothing to be feared in God's will. God's will will always prove in the final outcome the best and sweetess thing in all God's universe." Obed-iverse described in the control of the control o thing in all God's universe." Obedience does not mean merely doing some of the things, or many of the things, or most of the things that Golbids us do. It means total surrender to the will of God. "Obedience is really an attitude of the will lying really an attitude of the will lying There are still other steps that we must take before God will grant us the gift of His Holy Spirit but these will have to be described next week.—I.H.N. I.H.N.

### The Tragedy of the Farmer's Wife.

(Concluded from last week)

Further back than that there was ne division of the world into that which was a woman's, and not fitting a man to set his hand to. ntting a man to set his hand to. The American Indian will not touch squaw's work. It is a savage idea and a survival of savagery. The clerk in a store will sweep the flat for his wife and dry the dishes after supper, that they may have an hour together. So will the office or professional man who sees his wife overburdened. These men spend the holidays and Sundays fixing up conveniences in the house But not so with many farmers are exceptions, of course, but the rule holds with fair percentage, and exists as a simple fact. The same genexists as a simple ract. The same general condition holds with the hired men, yet I have seen one of these who could feel the great weariness of the farmer's wife and who would perform tasks to relieve her. The gratitude she showed this man was neatheric.

But the greatest of the shorte ings of some farmers lies in the fact that they provide their wives with nohing to make their homes more homelike or to lighten their labor. It is often fruitless to deny the fact that no thought is taken of the improvement of the farm taken of the improvement of the farm home. When the farmer and his wife started in with nothing in the early days, the all-absorbing thought was the getting of money out of the farm. To do this was the dominating idea ever in the man's mind. There were few conveniences in the house or in the field. The farmer found, however, the neid. The farmer round, nowever, that the net output of the farm would be increased by the purchase of the best machinery. This machinery was installed, and paid for itself many times over. The policy was continued, times over. The policy was continued, and soon there were wagons and mowing-machines and gang-plows and threshing machines. The principle did not apply to the house. It was not obvious that the installation of a modern range would increase the output of the farm, nor would running water in the kitchen. She met the girl at the outer door— a transformed girl. It wasn't the vious people from finding the great-lets nor the pompadour, now restored to all its impressive magnitude. It was the air. The girl winked grave-ly:

"Think Mame will jaw me, now," she asked, "driving up in a barouche?" Him." We must be willing to obey of these things. Life on the farm is

isolated. The fathers of the farmers farmers, and their mothers were farmers' wives. There were no con-veniences 1a their homes nor in the homes of their neighbors. There is an unfamiliarity with their very exist-

duction.

The farmer has a greater number of virtues than any other man in the country, but he has his own peculiar faults. The tendency to extol him as the mainstay of the nation and possessor of all the virtues in the decalogue has somewhat spoiled him. The facts are that he has a few very glar. ing shortcomings. He is sensitive of criticism, and could be readily broken of them if there were a way to get at him. Those who are at fault should be reminded of their shortcomings in no uncertain terms. In this way, they would finally be brought to realize them and to mend their realize them and to mend their ways. They do not appreciate the fact that they are not doing the right thing by their women.

If every farmer.

If every farmer cound be got by the ears and made to look his wife over with the same judgment and dis-cretion as he does his horses and cove there would be the greatest revolu-tion in conditions that the country has ever known. When a horse loses has ever known. When a horse loses flesh, goes off its feed, grows gaunt, hangs down its head and drags its feet, its case is immediately looked into. It receives the treatment it requires, and usually goes into the back pasture where the grass is tall, and does no work until its strength and health are restored. Let every farmer compare the physical condition of his wife with that of the business man's wife of the same age, and, if she is not as strong and young as the lat-ter, let him lay the blame at his own

The result of this making so hard of the woman's lot on the farm is a handicap on that great basic industry. Even where she knows nothing better, where none of her sisters or friends have married into a different life, there is a deep, un-ending hatred for the career she leads. It fills her breast before her children are born, and it enters into the view-point of things that these children get from her from babyhood up. The ris-From her from babyhood up. The riing generations are starting in by
hating farm life, and the great elfort is to get away from the farm.
Those with any ability succeed in doing so, and only the mefficient are
left to improve the native conditions.
And it could all be remedied. There
are, most satisfactory homes in avera-

And it could all be remedied. There are most satisfactory homes in every farming community in the land where the wives lead lives of thrift and industry among conditions that are as favorable or more so than those of their sisters in the cuties. A kitchen can be arranged as well in the coutry as in the city and can be furnish. ed with as many labor-saving device





Central Business College ool you may enjoy practical trai pense of time and money which ring you a good salary. Partice write and let us help you. Add

W. H. SHAW, Principal Yonge and Gerrard Streets Toronto RESESSORA Embroio Designs illu will be furnis Readers desir will confer Household Ed They will be possible after

December

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COLLAPSIBLE SI ch a sewing be dways make an a simple and easily m out flat to be pack out flat to be par trunk. In this c



board cut in sections ranged over this an into place. The poare attached and through which ribit keeps the basket in This pattern will dress on receipt of dress on receipt of ess on receipt of

. To mend a small ite ware, put the stove. Place a small wax over the hole it melt, but allow the ware. Cool gr ers

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Embroidery Designs
Dadgus illustrated in this column
Renders destricted for 10 cents each
will confer a favor by writing
illouders destricted for the cents of th







COLLAPSIBLE SEWING BASKET 6477

Such a sewing basket as this one will



tractive and useful.

The foundation for the basket is cardmared over the material is arranged over the material is arranged over the material is a real state of the material is a real sta

...

To mend a small hole in tin or gran-To mend a small note in tim or gran-tic ware, put the vessel on a hot stove. Place a small piece of sealing was over the hole and not only let it melt, but allow it to burn into the ware. Cool gradually.

Reconstruction of real estate Recons pays for the installation of running water in the house because health rewater in the noise because heath re-gulations force him to it. Yet the well-to-do farmer, who is much more prosperous than the average city dweller, says he can not afford it, and his wife draws the water from the well, his house is unsanitary, the children die of typhoid and a bath is unknown.

unknown.

The cure of the unfavorable conditions on the farm rests in awakening the women to the fact that more consideration is due them, and in cousing the men to their duties to their wives. When the conveniences have heave heave installed the farmer has to e been installed the farmer has to pull himself together and ask whether his wife is doing more work than is he. If so, he and the hired men may relieve her of certain duties that verge on man's work until her tasks are trimmed down to her just due. If are trimmed down to her just due. It the wives would organize and go on strike for a set of principles, they would win out, for there is no "scab-labor" to take their places. Any or-ganization that will teach women their due and men their duty will be heneficial. Any anthusiast who is beneficial. Any enthusiast who is burning with zeal to do good to hu manity may go among farmer people and show them a better living and find a better field for missionary work

find a better field for missionary work than in savage lands.

But to get at the farming people as a mass regime education. Presi-dent Rosevelt, in his message to congress on the occasion of the pres-entation of the first report of the County Life Commission, stated that a new education was one of the three great needs of the people on the farm great needs of the people on the farm. An education that prepares the boys and girls for life on the farm, that shows the girls what is due them and how to get it, and the boys what are their duties in the home, as well as to make monay, is the need of the country people. The consolidated rural school, with its practical training and enlarged circle of association, is the nearest present approach to the ing and enlarged circle of association, is the nearest present approach to the need and offers the most obvious ultimate relief. In the mean time there is opportunity for individual work.

### ... The Children's Playthings

Have you ever visited a home where Have you ever visited a nome where the children's toys were strewn from "garret to cellar," where often the mother has to clear off a chair before the visitor can be seated? Surely the visitor can be seated? Surely this is wrong. While we all want the the visitor can be seeded want the this is wrong. While we all want the children to enjoy themselves, there is a limit to this wholesale litter. We cannot all have play rooms or nurseries, yet we can set aside a closet or seevral drawers for the little folks, and when they are not playing with their tops, insist upon them being kept therein.

kept therein.

It is an excellent idea to keep some of their playthings out of sight for a few days, then bring them out and put others away. They will seem out the second of the secon

N 18 18 When a hole is discovered in any starched garment, dip a separate piece of the material in starch and iron to the material. The patch will thus be perfectly straight and not come off until the garment is washed again.

... HINTS FOR THE HOLIDAYS

Withy not send for one of our New Premium Lists and make a selection of several premiums which you would like to earn for the Holiday Season. You can earn them in a short time, and save buying gifts at Christmas time. A club of new subscribers for Farm and Dairy is easily secured.

seriptions. Send to-day, one new subscription. Receive the set free in return. ♣ ₱ ♠ € Cups and jugs should occasionally be scrubbed around the handles with a well soaped brush. Unless this is done, they are almost certain to get a grimy look.

Open for Criticism

Open for Criticism

Members of the Home Club are asked to send us criticisms on the article published asked to send us criticisms on the article published on the story page of the Dec. 9 and this issue of Farm and Dairy entitled, "The Tragedy of the Farmer's Wife. Note the editorial in this issue. (Household Editor)

A HOLIDAY WITH UNCLE SAM

Where are the members of our Home Club' I hope they are not all taking a holiday. It is pretty hard ware writing letters to our Club, so what we writing letters to our Club, so the control of the same and the control of the same and the writing letters to our Club, so the control of the same and taking a letter to our Club, so the carly in the fall of the carly in the carly in the fall of the carly in the carly in the fall of the carly in the fall of the carly in the fall of the carly carly in the carly in the

of the same old Mr. Toil staring at me in Michigan and 1 areo found that

of the same old Mr. Toul starring aven in Michigan and I also found that he worked seven days in the week there instead of six, as we are accustomed to do in Canada.

Farmers were sowing fall wheat and cutting corn on Sundays. In some cases where they did pretend to keep the soundary the soundary they seemed to be sometiment of the soundary that the soundary and in some cases drove nearly all disposario for the soundary and the soundary of the soundary and the ey." They had lots of it but wanted more, spent it freely but within their means, and were always good natured and jolly. I came home well satisfied with the Land of the Maple and think the holidey did me good.—"The Doctor's Wife."

SIMPLICITY IN HOUSEKEEPING
I like the view "Sister" takes on
this question so much I must give my this question so much I must give my opinion. It is as good as a tonic to find one who is not just carried away with fancy work and the idea that to be a good housekeeper you must keep up with the very latest fads. Fancy work may be all right in its place, but give me the good plain cook and general housekeeper plain cook and general housekeeper chen. Some women will speed before the some work needing the very closest attention and then imagine they cannot do their own sewing; they must get a seamstress in and pay permust get a seamstress in and pay per

cannot do their own sewing; they must get a seamstress in and pay perhaps \$1.00 per day.
Why cannot we learn to do plain sewing as well as fancy work, or when we do make some fancy article make something we will not be afraid to use. The sooner we gev oack to the "simpler living," the happier we will be.—"Anni Jano."

... Trip Through Europe

Those of our subscribers who have won a set of our beautifully illustratwon a set of our beautifully inustrated post cards, giving a tour around the world, will be glad to note that we have an even better set now, of 50 elegant views of Europe only. 53 elegant views of Europe only, Send one new subscription only, and we will send you this fine set of 50 most beautifully illustrated post cards, free. As our supply is limited, we cannot give this set for renewal sub-scriptions. Send to-day, one new sub-scription. Receive the set free in

# The Sewing Room

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

CHILD'S COAT 6494.



COAT 6494.

The long coat is always the best for children and the control of the coat of the coat of the coat of the coat of the season. It is thoroughly countrate abe and attractive.

Material required for medium size (6 yrs) is 4% yds 27, 23 th wide with 2% yds 44 or 52 in wide with 2% yds of banding.

ing.

The pattern is cut for girls of 4, 6 and 8 yrs and will be of 10 cts. mailed on receipt

BLOUSE OR SHIRT WAIST 6495



The simple shirt waist double breasted is a favorite. This model is turned back to form the single revers that are most effective. It will be found appropriate found appropriate for all waisting ma-

DOUBLE BREASTED COAT 6483.



STED COAT 683.

The coat that is double breasted and buttoned up closely about the throat is comfortable for cold weather. It is to be extensively worn this season, and this one reason, and the formal form ders that always mean pretty lines, and the back is made with seams that extend to the

arm holes only.
'Material required for medium size is 7/4 yds 27, 4/2 yds 44 or 3/2 yds 52 in wide, with 4/4 yds of band-

ing.

The pattern is cut for a 32, 34, 36, 38, 40 and 42 in bust and will be mailed on receipt of 10 ets.

GIRL'S BOX PLAITED DRESS 6481



The box plaited dress with a shield in sailor style is much in vogue. It includes the becoming sailor collar, it is simple and childish in effect, and is certainly smart. The one illustrated is made of Bordeaux red serve

made of Bordeaux red serge.

Material required for medium size (10 yrs) is 6 yds 24 or 27, 4½ yds 32 or 3½ yds 44 in wide with ½ yd 18 for shield and 14 yds of band-ing.

ing.

The pattern is cut in sizes for girls of 6, 8, 10 and 12 yrs of age and will be malled on receipt of 10

Read our Christmas gift offer on

### The Experimental Union

Two hundred million dollars annually represent the value of the farmer crops of the province of Ontario. To appreciate the value of the work of Ontario Agricultural and Experi mental Union which held its annual meeting in Guelph last week, one needs only to be told that experiments with farm crops were conducted on this past year, and that these experimenters are making a study of which crops are the most profitable under either own conditions, that the results of these experiments are demonstrated in each locality wherein they are conducted and that the valuable information secured from the whole of this work is disseminated through or this work is disseminated through various channels to the farmers of Ontario as well as to those of other provinces. In this way and through the distribution of seed grain, the Experimental Union is responsible for much of our increasing prosperity and the ever-increasing annual value of the farm crops of Ontario.

The secretary, Prof. C. A. Zavitz, in his annual report drew attention to the fact that it is 24 years since the present system of experimental work was started in a general way with only a very small membership. The development of the work has resulted in doubling the yields of Ontario farm crops and in filling the

agricultual college with students.

President J. O. Laird of Blenheim,
Ont., in his address pointed out that many farmers had worked themselve into new varieties through the grain secured for the experiments. This meant direct increase in yields. Not did it profit the experimenter alone others became encouraged and reap ed increased returns, hence the worl of the Union means millions of dollars to the province. Touching up-on the matter of co-operation, the president said that were we as farmers to band ourselves together, we would reap untold benefits and have four times as many members in par-liament and in our legislative halls Emphasis was laid upas at present. on the matter of personal appearance and the speaker stated: "We would be more respected than we are, were we as a class to wear better clothes. We have no reason to be

ashamed of our calling and we should see that our calling is not ashamed of

A special feature of the program of the Union this year was the promin-ence given to the work of the eleven district representatives of the De-partment of Agriculture which are now located at various centres over the province. Reports of work ac-complished showed the movement to be a great one and worthy of hearty support and extension. The short courses in connection with these departments seem to be the most popular part of the work; as President Creelman said when telling his recent experiences at the short courses held in Dundas "When as many as 400 people, men that had previously no organi zation, would turn out to a short course and stay from eight o'clock in the morning until late at night, it looks as if the short courses had come to stay."

By far the most important feature f the meeting was the reports on the meeting was the reports on the results of co-operative experi-ments with cereals, legumes, fertiliz-ers, potatoes, sweet corn, field roots, fodder plants, and hay crops, given by Prof. C. A. Zavitz. It would be hard to estimate the results to the country from the information derived from the co-operative experiments as directed by Prof. Zavitz. In the case of barley alone, much has been accomplished. The O.A.C. No. 21" accomplished. The O.A.C. No. 21" barley,—a special strain of the variety that was distributed over the pro-vince through the medium of the Un-ion and which has been of well-known benefit—has stood at the head of the list of barleys since it was sent out in these experiments four years ago. It has given practically two bushels to the acre more than the Mandscheuri variety. It is more popular, has stiff-er straw and is freer from rust than the old Mandscheuri. Prof. Zavitz the old Mandscheuri. Frof. Zavitz said that he had traced some 3,000 or 4,000 bushels of the O.A.C. No. 21 barley, which had been produced from the one pound lots that were first sent out and in every instance all spoke very highly of it. He believed that it would take the place of the Mandscheuri variety that has already done so much to increase returns in court were appointed a committee to draw pares. (It might be noted that Farm and Dairy offers seed of this variety following resolution was adopted:—

essewhere in this issue) the Commercial roeding Stuffs Acc, 1909, was discussed by Professor Har court, of the conege. The securing of this act was the direct result or enorts put forth on the part of the experimental Union. The Professor arter outlining the various features of the Act, said that it should be of great assistance to farmers in enabling mem to protect themselves from low grades of feed with which they are unfamiliar and it would also protect the manufacturer against dishonest competition. It would enable farmto use feeds economically and intelligently.

WEED SEEDS FROM ELEVATORS The Hon. Nelson Monteith who took part in the discussion upon this act congratulated the members of the congratulated the members of the Union on having their efforts reach fruition at so early a date. Since the amount of food stuffs consumed in Ontario is enormous, he suggested that the Union bestir itself in regard to the tailings brought in from elevators at Port Arthur. The nuisance caused by weed seeds in this connection should be abated to the poisoning the poisoning the poisoning the poison of the property of the poison of the property of the poison of the property of have been so successful in the matter have been so successful in the matter, of securing an Act regarding feeding stuffs, efforts should be put forth to regulate the matter." Mr. W. S. ing stuns, enorts should be put forth to regulate the matter." Mr. W. S. Fraser, Bradford, endorsed what Hon. Nelson Monteith had said and in-stanced the large amounts of noxious weed said in wind above. weed seeds in mixed chons, in the compounding of which these tailings are used. He cited Professor Grahar's experience in feeding weed seeds to poultry, the result of which, the Professor claimed was that had he continued the use of the seeds for a week or so longer, his stock would have died. This was good evidence have died. This was good evidence of their feeding value. Professor Harcourt explained the difficulty of having this matter dealt with effective. ly owing to the various interests that would be affected and to the fact that western opinion would be strongly against any such regulations.

TO REMEDY THE EVIL
Mr. Nelson Monteith, Mr. Fraser,
and Professors C. A. Zavitz, and Har-

"That owing to the introduction for feeding purposes of screenings taining noxious weed seeds, and the damage resulting from their wide Union respectfully recommends and urges that such legislation be enacted as will remedy the evil."

The report of the results of experiments of commercial fertilizers farm cover. distribution throughout Ontario, this

ments of commercial fertilizers on farm crops by Professors W. P. Gamb-le and C. A. Zavitz demonstrated the fact that farmers generally should exthe actual needs of their soils and that we can never dispense with barnyard manure since we must have organic matter present in the soil if we would get the best results.

CEASE EXPERIMENTING ON ROADS

That the time has about arrived when we should cease the experimentwhen we should cease the experiment-ing in connection with road making and get down to laying out roads and building them in a permanent manner under certain rules and principles of construction, is, in brief, the point made by Mr. A. W. Campbell, Deputy Minister of Public Works in his nuty annister of Public works in his address on Country Roads in Ontario. He estimated that 21 millions of dolars or its equivalent had been spen in the last 10 years on the roads of Ontario. Had he this to expend under fixed plans and specifications, der liked plans auch speciations, would macadamize every mile of roa in the Province. Such results hav not Leen accomplished simply becaus the work has been scattered, has bee patch and repair directed by unskille labor instead of permanent works ca. adamize every mile of road covince. Such results have ried out by competent commissioners.
To grow better children rathe

To grow better children rather an to grow better grain and more of was the object as outlined by Prof. than to McCready of the School Division of the Experimental Union Committee which division was appointed las year. Reports received of the work as carried on in the schools are most ecouraging. Children are given pleasure as well as helpful instruction, an a deeper love for nature and a greate interest in agriculture is engendere into their minds through this work. PHENOMENAL YIELDS OF GRAIN

Over 94 bushels of wheat to the acr and how it was produced was a part of a very interesting address entitle "Svalof" given by Prof. a very interesting address entitle valof' given by Prof. C James, Deputy Minister of Agn ture. Svalof is a little village i eden, a centre of production of culture. Sweden, a centre of production agricultural wealth, the home of D Neilson a man who has demonstrate how to double, treble, and quadrup the yield of grain. "Sweden is on home of Dr the yield of grain. "Sweden is on of the most progressive agricultural countries in agricultural education, "Sne spends or said the speaker. "Sne spends over million dollars annually on ago-culture, which fact comes as a superise to a people who often think that iterality is only on this side of the occan." The seed institute, the seed company, their farm and an agricultural high school that came under M. James' notice, each and all were deal with at some length. The initian' and self reliance of the people at Svá of who do not wait on the Governments, but whose work the Government afterwards comes along and is said the speaker. ments, but whose work the cover ment afterwards comes along and sists, were qualities admired by Pressor James. From the two days instruction and inspiration received while visiting Svalof, Professor Jan thought that it would pay Canada the Province of Ontario to send a delegation to see just how product in agriculture is brought about

OFFICERS OF EXPERIMENTAL UNION OFTICRES OF EXPERIMENTAL UNION
The following officers were electe
for the year -- Mr. G. S. Henry, Or
cle, President; W. J. W. Lennes
Newton Robinson, Vice-Presides
Prof. C. A. Zavitz, Secretary; Buchanan, Assistant Secretary; Pre
H. L. Hut, Treasurer, Board of Ce
trol; President G. C. Creelman;
Ferguson, Dalmeny; A. McKenn
Essex, Executive; H. M. Weels
Glencoe; F. E. Webster, Creemore at
S. H. Gandier, Lion's Head.

# Are You in a Rut?

Read these Magazines-they'll help you out. FARM AND DAIRY-Weekly

A paper for farmers and dairymen. It is published every every farmers and dairymen. It is published every every farmer was and dairy paper. It has departments for all lines of farm work, including the cultivation of the soil, live stock and a strong household department. Its market reports and letters from farmers are two of its best foutbres.

### CANADIAN HORTICULTURIST

Practical, common-sense advice on the ulture of fruits and vegetables, lawns, lowers, shrubs, trees and all ornamental plants. It is inspiration for the amateur, and money-earning for the professional.

### THE CANADIAN POULTRY REVIEW

Inc canadian Poulity Review
and Canadian Poulity Journals II i
published punctually on the first of each
choke full of live poulity lore. Pull re
ports of all shows, engraings from ill
photos, etc. Practical, news, down-te

### THE HOME JOURNAL

Looking over The Home Journal, you can scarcely believe it is the same magazine that you knew a year ago, it has doubled in size—in quality—in attacked, ness. The Home Journal and the forty page monthly—a magazine of which Canadian women can justly be proud.

# Farm and Dairy

PETERBORO, ONT.

Enclosed find \$



# Are You Progressive?

Then you probably have these. If not, read them-they'll help along

FARM AND DAIRY ..... \$1.00 The Home Journal..... 1.00 Our Price \$1.35

FARM AND DAIRY ..... \$1.00 The Home Journal..... 1.00 Poultry Review ......

Our Price \$1.75

FARM AND DAIRY ..... \$1.00 "he Home Journal..... 1.00 Canadian Horticulturist ... .60 Canadian Poultry Review .. .50

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Magazines sent to one or different Addresses

(	Farm and	Dairy	to			 						 					
١	Canadian	Horticul	turist	to		 	 		 	 							
١	Canadian	Poultry	Revi	ew	to		 				 			 			

Home Journal to .....

WATERVILLI old and frost lor sleighing.

December

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is very small. 50c a doz; porl

CROOKSTON. fine with no sno saving of feed this fall through this fall through many farmers in the hay crop by all got their year. The dividest year. In per standard is y. Hogs a \$15 to \$16

H. W.

NORTHUS

EDVILLE.— 3
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DUR!

SOLINA.—The pretty well don returns for the erage, considering one into winter the second state of the second seco gone into winter dition than a hay and straw quality is good mon and roote or so farmers are marketable stoe scarce, buyers as fewer Christmas selling high. A gone to 860 an and horses of the damand. Many ling on the new period of the selling rapidly p will be a green led clover thread good yields and good yields period of a good period of the selling rapidly period of a good p pects of a good bred stock is a since the United lifted, buyers b American orders

American orders.
VICTO
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QUEBEC
COMPTON CO., QUE.
WATERVILLE. — We have had some color of the state of the s

ONTARIO

ONTARIO

HASTINGS CO "ONT.

CHOOKSTON. — The weather continues fine with no snow, making a considerable saving of feed which is very incessary this fall through this section, as a good many farmers are feeling the shortage in the hay crop. The farmers have near the law of the part of the part

NORTHUMBERLAND CO., ONT.
EDVILLE.— Mr. Ed. Hinman, of this place, who lives near a creek running from a swamp, was somewhat surprised lately while plowing to uncover a nest of 5 mud turtles' eggs, each about an inch in diameter, and as round as a marble, with a shell like a hen's egg, some of which produced young turtles in a few days. This is something quite new in the company of the company

caused by them in their visits in the ight—8. II.

DURHAM CO, ONT.

SOLINA—The work of the season is pretty well done in this district and the returns for the year's labor have been average, considering prices. The stock has district and the returns for the year's labor have been average, considering prices. The stock has district and the returns for the year's labor in better considering prices. The stock has district and straw are not too plentiful, the quality is good while sides are more common and root cellars fuller than last year so farmers are not worrying. All kinds of marketable stock are selling high but farmer awaying they never hrew of marketable stock are selling high but for the property of the property of the property of the property of the heavy type are in good demand. Many teams have been working on the new O. N. R. line, which is well as many the property pushed through here, and good prices. Trade in purposed stock is active, particularly sheep along the property of the

OUR FARMERS' CLUB

Contributions Invited.

WATERVILLE — We have had some cold and frost lately, but not enough snow for selegising. The fine open fall afford et the farmers as spiendid opportunity to faithful work on the land that give the cold the farmers as spiendid opportunity to faithful the fai

WATERLOO CO., ONT.

WATERLOO CO., ONT.

NEW HAMBURG.—Plowing is pretty well done. Farmers are bauling mill. is a great demand in this spring the series of the ser

OXFORD CO., ONT. ..

OXFORD CO., ONT...

GOLSPUE. Had some very rough
weather the latter part of November but
December so far has been fine. Several
of the farmers are plowing but most of
them have finished. There is considerable
corn to be taken in yet. The rains of
late have made its ow set that it would
not be the several content of the several
part of the several content of the several
nangels are not up to the average. All
cattle have been housed for some time
past so it makes a long season for feedling. Feed, however, is plentiful. All
kinds of produce sell very high on the
lands of produce sell very high on the
weight; chickens, turkeys, 25c a lb. dressed.—A. H. M.

GREY CO., ONT.

GREY CO., ONT.

RAYENNA.—Our snow has disappeared and we have had hovely weather for last two weeks. Those that had plowing to do have nearly all finished. The fall wheat looks well, and far more has been sown than last year, and if looks speak for it, they may expect an excellent crop, for it, they may expect an excellent crop, the potato crop, both exceeding last year's crop. The apple crop is the best that has been for years. It kept the apole packers hustling for a few weeks to get them all packed. Fowl has been in get them all packed. Fowl has been in get them all packed. Fowl has been in late of the packers have the second packets and the packets. The packets had a late of the chicken differ according to size and age, some bringing as high as it a lb.—O. P. MUSKOR DISTRICT, ONT.

MUSKOKA DISTRICT, ONT. MUSAGKA DISTRICT, ONT.

GRAVENHURST. — We are having fine weather. Cattle out to pasture. Some farmers are busy plowing. We had a lecture at the farmers' institute meeting last week. Had a very good attendance and received some good pointers in feeding cattle and selecting seed grain.—B. L.

since the United Sintes quarantine was lifted, burers being out hot foot with American orders—J. B.

VICTORIA CO, ONT.

HARTLEY—Winter has come again with with the control of the control

# LIVE HOGS

We are buyers each week of Live Hogs at market prices. 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

\$7.75 a Cwt.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH.

- HULL. -

BRANTFORD

sith's Lad. R. of M. No. 29. He has 10 R. of M. daughters. His 6 nearest dams have official records that average 37 lbs. milk a day, and 2246 bbs. butter one week. He is a half-brother to Mesers. Fleid's \$8,000 stock buill. His dam, John the dam of the world's of Colambia th, the dam of the world's of Colambia th, the dam of the world's of Colambia th, the dam of the world's present is the best of the dam of the world's present is the best of the dam of the world's largest of ficial record for helfer. Syear-old; she proved the state of the state

IT WILL PAY YOU To Cut Your Straw and Corn With One of Our Cutters They are strong, easy running and handy to operate. Large and small styles. Latest improvements. OFFER HAME

The Peter Hamilton Co., Limited Peterborough

a marked accumulation in business and the holiday trade gives every appearance of being a very heavy one. Wholesalers and retailers have reason to congratulate ments of the banks show that without exception they have experienced great prosperity throughout the year. Canada will undoubtedly be able to look back on 1999 as a year full of blessings and marked of endeavor, the progress in every branch of endeavor, the progress in every branch of endeavor. of endeavor

WHEAT.

Reports from the Argentine of damage caused by frost, super-added to the earlier reports of havoe by locutas, created a bullish tendency in the large exchanges last week. The situation was rendered somewhat easier, however, by the heavy inpouring of grain to Minneapolis and other flooring centres, by the substantial increase noticeable in the visible wheat supply of the world, and the substantial time wheat field was more as great as at first reported. Now, however, prices have taken an upward tend. great as at first reported. Now, how-ever, prices have taken an upward tend-ency again, owing to confirmation of the first reports and in Chicago December wheat was quoted the latter part of last week at \$1.09°, Liverpool cables did not show the effect of the Argentine scare. The visible wheat supply of the world was reckoned last week at \$1.066.000 bashels or an increase of 1.197.000 vor the preced-tion of the contract of the contract of the bashels. Being lower by over a million bushels than the shipments of the week previous but over four millions larger previous but over four millions larger than the corresponding week of last year. On the local grain market prices ruled as follows Fall wheat, \$1.06 to \$1.07. Goose wheat \$1.04 to \$1.05 and on the farmers' market fall wheat, \$1.07, to \$1.08 and goose at \$1.03 to \$1.04.

### COARSE GRAINS.

COARSE GRAINS.

There has not been much change in the out market. At the end of the week the control of the control of the country of the cou

### FEEDS.

FEEDS.

At Montreal, Manitoba bran is nom inally quoted at \$19 to \$20 a ton in bags; and shorts at \$21 to \$22 a ton. Ontario and shorts at \$21 to \$22 a ton. Ontario or \$20 ton. \$20 to

### HAY AND STRAW.

The searcity of hay is still making itself felt and prices are ruling high. The top noth price last week was, however, 81 at least lower than the week before. There seems no likelihood of before. There seems no likelihood of make the seems of the seems quality.

### POTATOES AND BEANS

Potatoes still continue low in price, and taking this year's vast crop into consideration will likely remain stationary throughout the winter, with a slight trend upward in the early spring. In Montreal Green Mountains are quoted by

LAMENESS from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone or simi-lar trouble can be stopped with Full directions in pamphies with sach bottle, g.Coe bottle as dealers ordelivered. Horse Book O P free.

a bottle, remove S., 21., for mankind, gl. a bottle, remove S., for mankind, gl. a bottle, gl. a bottle

Toronto, Monday, December 13th.—The the Trade Bulletin at 55c to 56c on track, and the holiday trade gives every appearance of being a very heavy one. Wholesalters with the mester of the state ments of the banks show that without experity throughout the year. Canada will consider the state ments of the banks show that without experity throughout the year. Canada will consider the state of the pickers have been sold at from \$ to \$1.65 on track. Austrian beans quoted at \$1.65 to \$1.70 in small lots. Austrian beans are

### EGGS AND POULTRY.

and freeh gathered at 30e to 35c a doz. On Toronto farmers market new laid eggs sell at from 45c to 55c a doz. On Toronto farmers market new laid eggs sell at from 45c to 55c a doz, and held stock at 30e to 55c .

The receipts of poultry, whilst they are light in Montreal, are liberal in Toronto 15c and 15c a

### APPLES.

The English market, according to latest reports, seems to be getting some-what overloaded with fruit of common what overloaded with fruit of common quality. Baldwins, Spies, Ben Davis and Russets have been netting exporters ex-cellent prices. On Toronto farmers' market apples are selling at from 81.50 to 83.50, the same prices as last week.

### DAIRY PRODUCTS.

DAIRY PRODUCTS.

The local market is firm and creamery, separator and dairy prints sell at a fair figure. In a wholesale way creamery prints sell at 2% to 28c; separator prints, 28c, and tub butter at 20c to 21c a lb. At Montreal the following prices rule: Sept. treatment, 26c western dairy, 16c to 25c a lb. On Toronto farmers' market choice dairy sells at 28c to 39c and ordinary at 25c to 27c a lb.

### SEED MARKET.

Seed prices rule about as follows: Red clover, 1st quality, 87.50 to 88.50; second ruality, 86 to 87; alsike, 86.30 to 86.75, and timothy at 81.75 to 82.25.

### HORSE MARKET

HORSE MARKET
The horse market has been brisk and
seems to have opened up in earnest for
the winter. the Western demr 4 for
horses of all kinds being very a teh in
both been active factors in the improved
outlook. Quotations at the Union Stock
Yards rance about as follows: Heavy
drafts, 8175 to 8230; general purpose,
8155 to 820; active experiences, 8160 to 8230, drivers, 8100 to 8395, and serviceably sound
bornes, 815 to 10. WE STOOK

### LIVE STOCK

Christmas cattle of the choice variety are not so dear as they were earlier in the week, the highest prices paid being

are not so dear as they were earner in the control of the control

The demand for milch cows is still as keen as ever. The whole country seems to want them. The following prices were current: Choice milkers, \$50 to \$80; me dium and springers, \$25 to \$50;.
Sheep and lambs have likewise been in

active demand, the former selling as high as \$4.55 and the latter at \$6.25. Hogs are quoted at a few cents less than a week ago \$7.50 f. o. b. and at \$7.55 fet and watered in Toronto.

The Trade Bulletin's London cable states that Continental bacon has subsided is to 2s a cwt, but Canadian remains unaftered.

### MONTREAL HOG MARKET MONTREAL FIVE BOOMS OF THE MARKET owing to small supplies. As high as \$8.75 a cwt. for selected lots weighed off cars

a cwt. for selected lots weighed off cars was paid, and the offerings were quickly taken up at about these figures. Dressed hogs are firm at \$11.75 to \$12 for fresh killed abattoir stock. Country dressed is quoted at \$11 to \$11.25 a cwt.

EXPORT BUTTER AND CHEESE Montreal, Saturday, December 11, 1909.— The market for butter continues very firm with prices well maintained, holders generally holding out for 25½ to 25c for choicest creamery in round lots. Fresh senerally holding out for 25% to 25% to 25% for choicest creamery in round lots. Fresh receipts are offered at 25%, according to quality. The trads for the season is considered very good, the demand coming from all parts of the country, showing that the supply of butter is short in some districts. Toronto. Ottawa, and many other points in Ontario, are drawing on are also coming from Manitoba. If this trade keeps up throughout the winter, the supply of butter in Montreal will not be equal to the demand. On the other hand there is a fair quantity still coming in of creameries are still in operation. They will close up very quickly now, however, and the trade cannot count on much more fresh butter. This will throw the demand almost entirely on to stored buttery in store here, it will be very quickly disposed of. Some of the dealers are looiing for a demand from the United States soon in view of the high prices prevailing out the other side of the line, and some market there in spite of the high duties levied by the United States Government. market there in spite of the high duties levied by the United States Government levied by the United States Government. The market for cheese is very dull, there being absolutely no demand for ex-port. Holders are very firm in their views, and are not making any effort to force sales, being perfectly satisfied that in time the demand from Great Britain will come on and that they will be able to dispose of their stock at full prices. The stock of cheese in Montreal is variety The stock of cheese in Montreal is vari-usly estimated at from 100,000 to 200,000 boxes, each dealer having a decided opin-ion of his own on this question. A care-ful estimate based on the receipts into Montreal and the shipments from this Montreal and the suppments from this port during the past summer, and allow-ing for any discrepancies in the former, would indicate a stock of about 170,000 boxes in store here at the beginning of the month, with probably 100,000 boxes in stores and factories elsewhere in Canada.

### GOSSIP

The Holsteins that are to be sold by R. B. Martin, Elmira, Ont., as per his advertisement in this issue, are richly bred. They are mostly sired by Diotime Sir Abbekerk, 4964, whose dam has an official

One Dollar Deposits

Do not hesitate to make a deposit of one dollar in the Traders Bank.

Most people imagine that the Bank does not want to be bothered with small deposits. This is a mistaken idea.

The oftener you deposit, the more you save, for it removes the temptation to spend, and the danger of loss.

### THE TRADERS BANK OF CANADA

Capital and Surplus \$6,350,000

record of 69% lbs. milk a day, a grand son of the noted cow, Tidy Abbekerk, whose official record was 72.88 lbs. butter in 7 days. Of her offspring, Tidy Pauline be Kol has a record of 90 lbs. milk is me be Kol has a record of 90 lbs. milk in Formal State of 100 lbs. milk in the Kol has a record of 90 lbs. milk in Formal State of 100 lbs. milk substant of 100 lbs. milk in own day, and 254 lbs. butter in 7 days. milk in own day, and 254 lbs. butter in 7 days. milk in own day, and 254 lbs. butter in 7 days. me 100 lbs. milk in own day, and 254 lbs. butter in 7 days. me 100 lbs. milk in own day, and 254 lbs. butter in 7 days.

Don't put off seeing your friends and getting a club of subscriptions to Farm and Dairy.

# **20 PURE BRED HOLSTEINS**

An Unreserved Dispersion Sale of 20 Pure Bred Holstein Cattle, will be held at

Beaver Meadow Stock Farm, Elmira, Ont.

Friday, December 31, 1909

Sale to commence at 2 p.m.

Bids by mail will receive the same attention as if the parties were present

TERMS—All sums of \$25.00 and under, cash. Over that amount ten cash payment of credit amounts.

Reduced Rates on All Railroads

Morning Trains met at Wallenstein, C.P.R., and Elmira, G.T.R. Catalogues mailed on application. Positively no reserve

GEO. G. GLASS, Auctioneer

R. B. MARTIN, Prop.

The Consociation are readers the Associations of in for publications BULL TRANS

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Billy Button
Son to W. H.
Bill Major.
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Twenty oulls, Sir bs butter, Riversid Johanna, i Caledon Thomas Bi 1 p.m., und per annum

To who J. W.

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Among side. RECd days; COU! ada, dam's ing over 4 (Canada, reday, 63 lbs. bull in Cabest day's strains with the buyers can get TERMS. TERMS. inter Farm w stations. ( logues on

JAMES

It is desirable

### HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Friesian Association, all of whose members are readers of the paper. Members of the paper in the paper of the second items of cultation are invited to send items of cultation are invited to send items of cultation in this column.

BULL TRANSFERS FOR NOVEMBER, 1909 The publication of these transfers is paid for by the Holstein-Friesian Breeders' Association:

ers' Association:

Abblecks Butter Boy, Tomas Davidson
to A. C. Hallman, Breelau, Ont.
to A. C. Hallman, Breelau, Ont.
Oatman, Ed. Lewis Crossett to Oscar A.
Oatman, Grant Control, Co

La Seciete D'Agriculture, Havre-aux-Malsons, Que.
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Billy Maj. Clow, Inverary, Ont.
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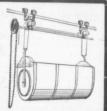
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