

VOL. XXVIII

NUMBER 19

# RURALHOME

PETERBORO, ONT.

MAY 13 1909



EASTERN ONTARIO DAIRY INSTRUCTORS AND SANITARY INSPECTORS, SEASON OF 1909.

Front Row, reading from left to right: D. J. Cameron, J. H. Echlin, J. F. Singleton, G. G. Publow, (Chief Dairy Instructor and Sanitary Inspector), W. W. Dool, J. Buro, Jos. Charbonneau. Second Row: A. H. Wilson, H. Howey, W. J. Ragsdale, R. W. Ward, R. Elliott, R. T. Gray, H. E. Brintell, T. J. Ellis, W. G. Gardiner. Third Row: G. H. Bensley, C. W. Norval, W. G. Graham, S. S. Cheetham, T. E. Whattam, I. Villeneuve, A. Macdonnell, P. Nolan, C. B. Larry, J. B. Lowery.

DEVOTED TO

BETTER FARMING AND

SANADIAN GOUNTRY LIFE

# It's Results That Count

Any Cream Separator agent may visit your home and, with a smooth line of talk, induce you to buy one of the make of cream separators he represents. After you have used the machine for a while, you may find that you have been deceived. The only way to select a good machine is to have the agent set up a machine on your farm and leave it for a free test for a month. You will then know its good as well as its bad points. There are thousands of dairymen who wish they could have had the machine they now own for a free trial. They would never have bought it. They know they have been deceived, but are unwilling to acknowldge it. Now, if you or your neighbor, or any one else you know, are anxious to better yourselves, let us know and we will send a

# SIMPLEX LINK-BLADE

to you for a free trial.

Don't forget that it will not cost you anything to try one of our machines. All we ask is that, when you have satisfied yourself that our machine is worthy of your dairy, you pay for it. We never have had a machine returned. That is why we can make this liberal offer. If it is satisfactory results you are looking for, then buy a "SIMPLEX" and you won't be disappointed.

# D. Derbyshire & Company

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Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P. O.

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS

## Every Farmer Wants The Best Stock On his Farm

Don't keep poor stock when you can easily obtain pure bred animals

A PURE BRED PIG FREE

in return for

Seven New Yearly Subscriptions to Farm and Dairy Samples Sent Free

CIRCULATION DEPT. FARM AND DAIRY PETERBORO, ONT.

### The Bacon Situation

With a view to ascertaining just what the present state of the bacon situation is, from the standpoint of situation is, from the standpoint of the producer, Farm and Dairy is cor-responding with a large number of pork producers. Early reports that have come to hand indicate that the bacon industry is in a state even worse that we had feared.

worse that we had feared.

Some correspondents have placed their estimate on the number of hogs in their district this year as compared with last at one-third. Other estimates range from this up to 60 and per cent.

Answers to the question "Have you raised hogs at a profit this past year have been varied. They range raised hogs at a profit this past year?" have been varied. They range all the way from an emphatic "No" to a positive "Yes," with the great majority recounting their profits as being very small and these having been obtained only through judicious feeding and by having recourse to pasture, sugar beets, mangels and home grown grains. It is interesting to note that those who have not made profits on hogs during the past year have relied principally on mill feeds. The most optimistic replies have been received from those farmers raising pure bred hogs, where they have been able to sell their stock for breeding purposes.

## WHERE PROFITS ARE MADE.

Those who figured out a profit on their past year's operations in producing pork, invariably have had recourse to home grown feeds and have relied principally on roots in winter and rape and other pastures in sum-mer. Many of these also have had skim milk, buttermilk or whey. The reports clearly indicate that if one would produce pork at a profit, these cheaper feeds must be relied upon and must be produced in greater ab-undance. Practically all are optimis-tic as to future prices for hogs. They tic as to future prices for hogs. They rely for the most part on the present great scarcity of hogs to keep up prices. The present being the time to seed the crops that will produce pork more cheapiy, those counting on producing hogs this present year should not fail to take advantage of, and seed part of their acreage to, rape for summer pasture and roots, either sugar beets or mangels for winter feeding.

PROSPECTS FOR HOGS.

PROSPECTS FOR HOGS.

It reply to what they considered the prospects are for hogs, many answered that unless some definite standard could be arranged as to prices, the outlook is gloomy. Others, however, looking to the immediate future, frankly state that if fed right, they are a naving department. iate future, frankly state that if fed right, hogs are a paying department of the farm. The general opinion was that there is no profit in buying millifeed at present prices and that to feed such to hogs is simply money lost. One correspondent from Leeds Co., stated that it would require an extended that the word require an experi feeder to make a profit and that the profit is not because in production for some time yet.

SUGGESTIONS FOR IMPROVEMENT. Suggestions made towards bringing about an improvement in the bacon industry, brought out much interesting matter. Mr. W. E. Hambly, ing matter. Mr. W. E. Hambly, Norfolk Co., Ont., thought that more information was needed on the proper breeding and feeding of hogs, that the prices should be paid according to the quality of the hogs produced, that the short, fat, thick, Yankee, corn-fied hog should be kept out of our markets if possible, and that all Canadian bacon for export should be considered to the control of the contr only way to improve the bacon in-dustry was to get after the railroads and millers, as they are the parties who are making the profits, and at present prices farmers cannot buy mill feeds to feed to hogs and there-

Mr. Owen Cougler, of Leeds Co., suggests that buyers will have to dissuggests that outers and pay more for criminate in prices and pay more for bacon hogs than for hogs of lard type, and states that he for one is criminate in prices and pay more for bacon hogs than for hogs of lard type, and states that he for one is going out of raising the bacon hog and will turn to the fat type which he considers can be produced more cheaply. Mr. J. L. Dunkin, of Oxford Co., writing on the prospects for the industry, stated that it all depended on the prices we get and past experience shows that there is no means of knowing this. One thing was clear, however, that if they were to stay in business, something would have to be done to get the prices uniform so that they would not go down to from three to five cents a pound as soon as our herds are decreased, even a little. Were a commission of Canadian farmers to visit Denmark this year to investigate conditions s:d practises there, the results of their trip practises there, the results of their trip would be certain to be followed closeby by our Canadian hog raisers and should be productive of much good. Watch later issues of Farm and Dairy for condensed reports prepared from these being furnished to us by our correspondents.

## Exposition Sheep to Pass Quarantine

Canadian sheep may be imported into the United States from May 20 to October 10, 1909, for exhibition purposes at the Alaska-Yukon-Pacific purposes at the Alaska-Yukon-Pacific Exposition, to be held at Scattle, Wash., from June 1 to October 15, 1900, without being subject to the 30 days' quarantine, provided they pass a satisfactory inspection at the nort of entry and are accompanied by an affidavit of the owner or importer, and a certificate issued by a Canadian official veterinarian, as re-Canàdian official veterinarian, as required by Amendment 3 to B. A. I. Order 142, amending Regulation 41 of the Regulations for the Regulations for the Regulations for the Inspection and Quarantine of Horses, Cattle, Sheep, and other Ruminants, and Swine Imported into the United States; and provided further that the sheep which are not sold to remain in the United States shall be returned immediately to Canada at the close of said exposition.

said exposition.

The Department must be notified by the owner or importer, through the office of its veterinary inspector in charge at Seattle, of any Canadian sheep which are to remain in the United States for breeding purposes, and such sheep will be maintained in quarantine at the exposition grounds quarantine at the exposition grounds under the supervision of an inspec-tor of this Department, who shall is-sue a certificate before shipment to a destination is allowed. The 30 days of quarantine will be counted from the date of entry into the Unit-ed States. All Canadian sheep in-tended for this exposition must be shipped directly to the exposition shipped directly to the exposition wilson, Secretary of Agriculture, Washington, D.C.

## Ottawa Prize List Extended

Wagner, Toronto.

Issued Each Wee

Vol. XXV

Care o Dr. H. G. In the majo only to be lef itself. But, so is not going r attention. Con dition; it is ge 'meconium,'' contained in t of warm water stance to be ex the purpose bet or other purgat to give a foal a er it shows any The practice is sibly set up a injure the patie If the mare fo

previous to foal fed on some su there is not mu constipation in Foals born on seldom troubled A foal should al watched till it urinate, and, if act some of the to escape from t ening, some mea at once adopted that abnormal A ligature aroun cord will someti the purpose. If broken off too she the application of to the parts, such of silver, or butt mony, will burn the end of the le and stop the dis dies fail veterins cured, for if the it will in all pr pine away and condition is met than in fillies.

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FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII.

FOR WEEK ENDING MAY 13, 1909.

No. 10.

a Year

## Care of the Newly Born Foal

Dr. H. G. Reed, V.S., Halton Co., Ont. In the majority of cases a foal needs no care only to be left alone and allowed to look after itself. But, sometimes the farmer finds that all is not going right and the little creature needs attention. Constipation is not an unusual condition; it is generally due to the retention of the "meconium," a dark colored, waxy substance contained in the bowels at birth. An injection of warm water or oil will usually cause this substance to be expelled and in most cases answers the purpose better than the administration of oil or other purgatives. Some farmers make it a rule to give a foal at birth a dose of castor oil whether it shows any symptoms of needing it or not. The practice is bad, for a dose of oil will pos-

sibly set up an attack of diarrhoea and to that extent injure the patient.

If the mare for some weeks previous to foaling has been fed on some succulent food, there is not much danger of constipation in the foal. Foals born on pasture are seldom troubled in that way. A foal should also be closely watched till it is seen to urinate, and, if during the act some of the urine is seen to escape from the navel opening, some means should be at once adopted to arrest that abnormal discharge. A ligature around the navel cord will sometimes answer the purpose. If the cord is broken off too short for that, the application of a caustic to the parts, such as nitrate of silver, or butter of antimony, will burn a scab over the end of the leaking duct

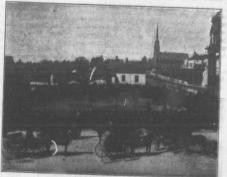
and stop the discharge. If such simple remedies fail veterinary help might better be procured, for if the condition is allowed to persist, it will in all probability cause the patient to pine away and die a lingering death. This condition is met with most frequently in colts than in fillies.

### "NAVEL ILL"

"Navel ill," is the most serious disease that foals are liable to suffer from. It is often confused with the condition above referred to, but it is altogether a different trouble. It is a germ disease and requires the presence of the germ in the system to establish the malady. The navel is inflamed more or less from the fact that it is there that the germ usually finds an entrance to the system-that being the only raw spot on the body-and the fact of this local inflamination often leads to the conclusion that the navel is the seat of the disease. The germs of this disease seem to abound in many sections and if they

get into the system they generally lead to fatal results. Curative treatment is not very succe ful, a large proportion of the patients will die under the most careful treatment, but while curative treatment if often unsatisfactory; fortunately preventive treatment is easy and usually very successful. It consists in destroying the germ before it gets into the system, by the application of a 10 per cent. solution of carbolic acid or some other disinfectant to the navel opening as soon as the foal is born, and repeating the application twice a day till the parts heal over, when danger from infection from that quarter is over. This healing-over process will usually take place in from ten to twelve days. This simple precaution has saved the life of hundreds of foals.

Every farmer who has a mare in foal should



Awarding the Ribbons at the Barrie Spring Stallion Show We are apt to underestimate the value of the spring stallion show. It is a great feature in inspiring healthy competition amongst horsemen locally, and thereby it tends towards actual progress in elevating the standard of the horse ratsed.

provide himself with the means of treatment before hand, more especially if the disease has been prevalent in the section in previous years. There is much less danger from this disease if mares foal out at pasture than if they are in the stable or around the barnyard. When a mare is expected to foal in a box stall great care should be taken to see that everything around should be made thoroughly clean. The floors should be thoroughly cleaned and disinfected, also the walls and manger. A plentiful supply of good clean straw should be provided and all surroundings kept scrupulously clean.

Some foals are born in a weakly condition, are unable to stand and suck, but still have vitality enough to pull through all right if given a good chance. Such a foal should be helped to its feet and allowed to suck at least every two hours night and day until it is able to get up and help itself. Many a foal is allowed to die that might have been saved by a little more attention of this kind, especially at night.

## Sound Advice From a Horse Man

Most farmers make the mistake of breeding from mares that they cannot sell. They reap the reward of their folly in that they cannot sell the progeny either, at least for anywhere near the price that first class stuff will bring. Such were the observations of Mr. J. F. Staples, of Durham Co., a well known borseman who recently called at the office of Farm and Dairy.

"One can make as much money out of horses as out of cows," said Mr. Staples. "The cows, we must admit are sure money makers but then it requires hard work to make them yield the products from which to get that money. During the past year, I sold nine horses that realized close on to \$2,000. These were, all but one, of my own breeding. Raising horses is just a side line on our farm. We have cows and everything else in general that one would expect to see on a farm where mixed farming is practised. The oldest of these nine horses was a three year old, another was a yearling and another a two year old. One pair realized \$425. One was a ridgeling and necessarily was sold at a sacrifice, bringing \$140. Another pair brought \$400, while the re maining four realized \$925, thus totalling in all

These results did not come by the use of high priced mares. I started with a well bred mare that cost me \$35. Horses were cheap at that time, bich accounts for me getting her so reasonable. She was a good mare with good breeding and was the originator of my Clyde stock. I aim to sell all surplus stock at any time that I can find a buyer who is willing to pay for good stuff.

## RAISE HORSES FOR MARKET.

"If we would meet with the most success in horse breeding," continued Mr. Staples, "we must raise them for the market, not for ourselves. The najority of farmers do not want a big heavy horse, nor do they want a light horse. They want a general purpose horse. Such horses have proved to be the most useful on the farm, but it does not pay to raise them. They are what we call misfits. We have enough of them already. We can buy any number of that kind, so we should devote our attention to breeding a more profitable sort. From our ordinary operations we will get enough of these misfits, and if we do not (and in that case we may consider ourselves lucky) we can buy enough to fill our requirements.

"Probably the best horse I ever owned is one that I have on the farm now. I bought him when three years old for \$105. He was just ready for the harness. He was a cross bred. His owner had crossed his mare and got as a result a tough little nut-a very good sort, but probably worth at the most only \$150 on the market. His owner certainly made a mistake. At a slightly increased first cost he might have secured a colt worth \$200 or over, at the aga of three years.

### PROFITABLE TO BREED.

"While the hackney is not a farmer's horse, it is probably one of the most profitable to breed. The hackney is the gentlemen's horse and he it

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is that we get a good price for. Again, the hackney develops from one to two years earlier than the road horse, which is a factor worth considering

"It is to be regretted that farmers and breeders, as a rule, do not use more care and better judgment in the selection of sires These men would meet with a good share of success if they would but pattern off men that have made a sucess of horse breeding. One thing," concluded Mr. Staples, "is an absolute certainty, those who look too much to the first cost of the coltthe service fee-will not meet with the success they might."

### Potato Growing in Ontario

W. J. Westington, Northumberland Co., Ont. The area devoted to potatoes within recent years has been decreased by 50,000 acres and the product by 6,000,000 bushels. In 1906, there were fewer potatoes produced than in any former statistical year. This is a matter for serious reflecton, and has prompted me to write a few words on the subject of potato growing. There is no more profitable branch of farming in the Midland portion of our fair Province of Ontario, than the production of the potato, that necessary article of food.

In order that we may have an abundant crop, the land for potatoes should be of a deep loamy nature and of a sandy texture. Heavier soils do not produce potatoes as mealy or of as good a flavor as the lighter soils and in such soils they are much more susceptible to rot or fungus diseases. Potatoes may be planted after almost any grain crop, but clover or tough sod is preferable. After the grain or other crop has been harvested the land should be plowed and frequently harrowed during the autumn season to consume the moisture that has been placed in nature's store-house for the benefit of vegetable life. The land should be plowed again a good depth just previous to the freezing up season, as preparing the land in this way tends to kill quack grass and other noxious weeds that have so largely taken possession of our fields.

In spring when the land becomes friable it should be cultivated with a spring-tooth cultivator and immediately harrowed so as to pulverize the land. Such cultivation should be continued as often as convenience will permit. About 20 loads to the acre of rough barnyard manure should be applied with a manure spreader and plowed down with an ordinary plow. Use a skimmer attached to the plow so as to cover all particles of straw and thus cause it to decompose quickly. Applying manure in a green state in much more profitable than to allow decomposition to take place in a manure pile as in that way much of its fertilizing value would escape into the air in the form of ammonia. After plowing, the land should be harrowed level. Then furrow the ground out with the plow from four to five inches deep, and have the furrows 32 inches apart.

Plant your potatoes between the 22nd of May and the 7th of June. Choose the later varieties that those least susceptible to fungus diseases and that are smooth, well matured, shallow eyed and of medium size, with fine, white skin and flesh. Potatoes that have lost none of their vitality by sprouting should be taken from a cool, dark cellar and planted immediately after being cut. Have no more than two eyes in each set and place the sets in the ground 18 inches apart. Discard illformed, scabby potatoes, or portions of ones that may have been injured in the digging process. Choose potatoes true to the type or form desired.

### COVER AS SOON AS PLANTED

Where a planting machine is not used it is desirable to cover them immediately with a harrow. Continue harrowing every few days to kill weeds and stop the evaporation of soil moisture. Harrowing should be done until the plants are fully two inches above the ground, then the cultivation should be used frequently. When possible arrange to cultivate after sowers of rain. Cultivation should be continued until the plants are ready for hilling. Hill the potatoes lightly, if at all. Shortly after hilling the space between the rows should be cultivated again with a narrow gauge cultivator so as to not injure the rootlets, using the hiller as before. After this the hoe should be used to cut out any weeds that may still remain. ONTARIO'S REPUTATION

consumes between 14,000,000 and Ontario 15,000,000 bushels of potatoes annually. It is a source of regret that owing to the improper grading by shippers, large, small and indifferent potatoes of all colors, shapes and sizes, are promiscously thrown into cars and shipped to their places of destination, regardless of anything but the profits to be obtained. Ontario's reputation is thus sacrificed. We do not receive as much for our product by 12 cents a bag as potatoes grown elsewhere. Just fancy the city of Toronto alone consuming between 2,000 and 3,000 bags a week, and drawing 80 per cent. of these for nine months of the year from a maritime province, namely New Bruswick, where more discretion is exercised in planting and in shipping the right sorts, and where they keep in view the object of obtaining and retaining the choicest markets in this vast Dominion of Canada. As this is a subject worthy of consideration, why should not we have farmers of Midland Ontario, put forth an effort to regain our former good reputation by growing and placing upon the market an article of food which should not only tempt the masses, but the epicure? We believe that our climate, soil and market i dvantages, are sufficient to place us in a position to compete with potato growers anywhere in Canada in supplying most of our Ontario markets.

## Steps in the Right Direction

G. Boerma, Saskatchewan District, Sask.

I notice that the Dominion Swine Breeders' Association want a commission to go to Denmark and Ireland. That is a step in the right direction. It is not sufficient nowadays for farmers to give the whole of their time and study to the question to be taken into consideration. Should the government ultimately not be able to see its way clear to send a commission, or send a commission of men whom the swine breeders would not regard satisfactory, it might be well that the

Association endeavor to do so themselves.

Seeing, however, that the highest prices are paid at home (by the consumers any way) I hope the home market will also be taken into consideration.

Forestry Meetings Indorsed. - I have read the suggestion published recently in Farm and Dairy that forestry meetings should be held in the counties in Ontario where reforestration is needed. The Canadian Forestry Association will be glad to cooperate in any way possible in connection with these meetings. Our Association considers it very important that attention should be given to the reforestration of the denuded lands which are fitted for agricultural purposes. Every stick of wood that we can raise in Canada will be required. It is a poor commentary on our civilization that we let so many acres lie unless when they might be made productive and supply one of the most needed materials. The municipalities having lands of this character should undertake to have them reforested as they might be a source of direct profit to the corporation .- R. H. Campbell, Secretary Canadian Forestry Association, Ottawa, Ont.

When the sow gets her full growth, her litters will be large, healthy and more uniform.



A Home on a Farm that Made a Good Showing in the Last Dairy Farms Competition Held by The Canadian Dairyman

Farms with the finest homes do not always make the best showing in a dairy farms competition. The illustration shows the farm home of Mr. James Crichton, of York Co., Out., whose farm made a very good showing in the dairy farms competition many improvements, including gravel walks and drives. He had removed much fencing, thereby covering several many improvements, including gravel walks and drives. He had removed much fencing, thereby converting several many improvements, including gravel walks and drives. He had removed much fencing, thereby competition fields into large ones, and expediting farm work. Do not hesitate to enter your farm in the dairy farms competition because your house may not be as grand as some that you know of. If other things on your farm are fifty, you will obtain a high score in the competition. Get your neighbors interested also. Show them the announcement on page seven of this issue. It will be well worth while to have a farm in your section win a prace in our Dairy Farms competition.

## Where Money is Lost

A striking example of the money that is lost by farmers who send good milk to factories where the cheese makers accept inferior milk, was furnished by Chief Dairy Instructor G. G. Publow, at a meeting of dairymen held in Peterboro recently. "Last year," said Mr. Publow, "one of our dairy instructors conducted a test in a cheese factory to find how much money is lost where bad milk is accepted at the factory.

"This instructor went to the factory on July 31st. On that day all the milk that was delivered by the patrons was accepted. In all 9,795 lbs. of milk were received, from which 791 lbs. of milk to make a pound of cheese.

"The following day, August 1st, all the milk that was not in good condition was refused. The milk that was accepted weighed 9,251 lbs. From it 841 lbs. of cheese were made. Thus, it required only 11.03 lbs. of this better milk to make a pound of cherse. Fifty lbs. more cheese were made although 514 lbs. less milk was used. Had all the milk accepted on July 31st been as good as the milk that was accepted on the following day, 96 lbs. more cheese might have been made. Valued at 12c. a lb., it means that the patrons of that factory lost \$11.52 that day because poor milk was accepted.

"These figures show how necessary it is that cheese makers shall refuse poor milk when it is delivered at the factory. They also show that farmers who deliver good milk at the factory should back up their cheese maker in refusing bad milk. One can of bad milk, when mixed with the good milk delivered by the other patrons of a factory, is liable to cause a loss of many dollars to the best patrons of the factory."

## Sow Pure and well Selected Seed

T. G. Raynor, B.S.A., Seed Branch, Ottawa The season for putting in cereal grains is becoming very late, hence the necessity for a word of caution about the seeds we sow, for the Good Book tells us that, "Whatsoever a man soweth that shall he also reap." This is not only true in our own lives, but it is abundantly true in farm practice. Has not most of the weed life on our farms come from sowing dirty seed grain and more especially foul clover and grass seed? There is little or no excuse for sowing dirty oats, barley, wheat or peas; but there may be some excuse for sowing small seeds with more or less weed seeds in them, as many weed seeds are rather hard to detect especially in clover and alsike seeds. Nevertheless for our mistakes or ignorance we have to suffer in this regard as much as though it were a wilful act.

Now while we are waiting for the land to dry, would it not pay us to take another very careful look at the seeds we are going to sow? They should not only be well selected, but as pure as it is possible to get them. By putting seeds through a good fanning mill three or four times with plenty of wind and over good screens, most of the light and small seeds will be eliminated and we will have only the large plump seeds such as will produce strong vigorous plants. Such plants may be able to make up for lost time in their growth owing to the late season.

### HAND PICKING

Where one is compelled to sow seed grain that contains some wild oats would it not pay him to spend time eought to hand pick over a few bushels, at least, from which he could keep his seed for another year if he could sow them on a piece of land uninfested with wild oats, or so handled that the wild oats would not mature un the crop? Wild tares, wild mustard, purple cockle and other foul seeds could be eliminated at the same time. If this hand picked seed were sown on a piece of clover sod or hoe crop ground that had been well cultivated during the past year and had not been plowed so deep as to bring up the sleeping weed seeds, then a man could reasonably expect

to harvest pure seeds, and thus purify his grain crops. Where pure oats, or other grain crops were desired, the other varieties of grain could be eliminated at the same time.

If users of small seeds do not feel themselves competent to make a critical examination of the small seeds for weed seeds, they should send one ounce samples down to the Seed Branch, Department of Agriculture, Ottawa. Such work is done there free of clarge and not even the price of a postage stamp is required to send the sample and get a purity report on the seeds to be sown.

## BLADDER CAMPION

In the Peterboro district there is great danger of getting bladder campion seed in locally grown seeds, as much of that most pernicious weed is prevalent throughout the district. I have examined seeds offered by seedsmen and have found quite large quantities of this seed in it. While the Seed Control Act does not blacklist it among the 23 others, I would consider that a dealer who would knowingly sell me clover seed with that foul seed in it, could not do me a much greater injury.

ing a little deeper than it was before, provision will be made for a little heaving which often takes place in the winter, but too deep planting is almost as bad as planting too shallow. It is important to have the tree at least as deep as it was before and, as stated, best to have it a little deeper. The soil when thrown out of the hole should be put in two separate heaps, the surface or good soil in one and the subsoil in another. If the soil is all poor, to get the best results sufficient good soil should be brought to fill the hole. The tree is now placed in an upright position and the good soil is thrown or sifted in at first about the roots of the tree. As it is important for the soil to come in close contact with the roots it should be pressed against the tree with the foot, when thrown in. If there is not enough good soil available to fill the hole the poorer soil may be placed on top of the good. Manure should not be put in the hole with the soil as it may burn the roots and make the soil so loose that it will dry out easily. Better apply the manure to the surface of the ground in the autumn and dig in



Experiment stations and practical farmers were demonstrated conclusively that the bacon hog can be produced as economically as hog or of the fat type. The ability of a particular hog to make economical gains is a matter distribution of the produced as economically as hog or make economical gains is a matter distribution. The sow illustrated took first prize at Teronto, 1968, and were owned by Mr. D. C. Plast, of Wentworth Co. Ont.

If I found it out, he wouldn't get a second chance.

Where one farmer buys of another farmer in a
district where such weeds grow he is in great
danger of getting such weeds unless he is a good
judge.

Among other weed seeds to look out for are catchfly or sticky cockle, ribgrass or buckhorn, ragweed, wild mustard, false flax, etc. If you do not already know what these weeds look like consult the Farm Weeds Bulletin in your School or Public Library at once. If the bulletin isn't there, see that one is provided forthwith by the Seed Branch. Ottawa.

## How to Transplant a Tree or Shrub

W. T. Macoun, Horticulturist, C.E.F., Ottawa When trees die after planting, it is usually due to carelessness in transplanting. Some kinds of trees transplant much easier than others, and some of those that are planted more commonly than others, such as the hard maple and American elm, are among the easiest to transplant, hence one is likely to become careless. Trees and shrubs should be dug as carefully as possible so as to retain a large proportion of the roots. The more roots there are the surer one is of getting the tree to live. The roots should not be allowed to become dry from the time of digging until the trees are in the ground again. They may be prevented from drying in transit by protecting them with wet moss or wet sacking. If the roots of evergreens, especially pines, become dry even for a short time the trees are almost sure to die.

A hole should be dug large enough so that the roots may be spread out and not crowded or doubled up, and deep enough so that the tree or shrub when planted will be from one to two inches deeper than it was in the woods or nursery. By plantthe shortest of it the following spring into the surface soil.

After planting, the tree or shrub should be headed in well, the amount of heading in depending upon the amount of roots. If a large proportion of the roots are cut off a large proportion of the top should be removed, otherwise the large leaf surface will transpire so much moisture that the tree will dry up before the roots begin to take in more. This is why shade trees are cut back so severely when planted, but it is not necessary to reduce the trees to mere poles as is too frequently done, causing a bad crotch in the tree later on where the stub dies back and where rot sets in.

Evergreens are not headed back like deciduous trees as it would disfigure them too much and they have usually a fair supply of roots.

Before leaving the tree the surface soil should be loosened again so as to leave a thin mulch of loose soil on top which will prevent the moisture evaporating from the soil so rapidly as it would do if it were left hard. The surface soil should be kept loose throughout the summer and the best growth will be obtained by keeping a circle of from two to three feet or more in diameter around the tree free of grass, where the soil will be kept loose and the rain and air find a ready entrance. If trees and shrubs are transplanted with care they should usually live. Early in the spring is the best time to transplant most kinds of trees and shrubs, evergreens included. Evergreens may be transplanted in summer, but greater precaution must be taken to do it successf iy, and we do not recommend it. Both evergreens and deciduous trees may also be planted in the autumn successfully, but on the whole they do not do so well as if planted in the spring.-Extract from evidence given before committee on agriculture

## Does Under-Drainage Pay?

Prof. Wm. H. Day, O. A.C., Guelph Prof. Wm. II. Day, O. A.C., twelph In attempting to give Farm and Dairy a "dollars and cents" view of the value of under drainage I would say in advance that of the great number of farmers who do tiling comparatively few keep sufficiently close accounts of all the expenditure close accounts of all the expenditure of the property of the comparative of the pro-tone of the comparative of the comparative of the few house, have been them. few, however, have been able to give us exact information, some of which has been used in illustration before, but in this article I shall present three

Mr. Wm. Bell, of Washago, Sim-oe Co., writes as follows:

"In reply to your letter of enquiry I will make the following statement: In the fall of 1907, after the Depart-In the fall of 1907, after the Department of Physics surveyed for me, I dug and laid the main drain. I put de inch pipes into it 2,200 feet long. Then I drained with smaller pipes into the main drain. Of course this long main drain was also intended to carry off the surface water from land that we have surface water from land the land that we have surface water from land that we have surface water f land that was too low to underdrain, and should not be charged entirely

to the eight acres that I underdrained.

The eight acres had produced

WEDETUR

nothing previously. Last summer I grew a fairly good crop of oats which yielded 33 bushels to the acre, 33 bus. at 45 cents equals \$14.85 or \$118.80 for 8 acres.

COST OF DRAIN 6.000 tile .....\$99.40 Freight on same. \$16.50
Hauling tile from station, 15.00
Four men for a month digging
and laying drain, \$160.00
Total. \$290.90

From this we see that, making small allowance for the portion of small allowance for the portion of the cost of main not rightly chargeable to this eight acres, the whole cost of draining this block of land would be returned in two years at most. As a matter of fact the second year's crop off the land will be better than the first, for drains do not reaca their full efficiency for two or three years, especially where the land has long lain septentially water the latin mas long lain wet and is sour and close in texture. Drainage corrects the acidity and opens up the soil. These drains were laid from five to six rods apart, and nothing smaller than three inch tile was used."

EARLY DRAINING Here is an example of earlier date: Mr. Joseph Lapp, of Cedar Grove,

He continues: "Had this work been done at the prices prevailing here during the last few years, and the same increase of crop sold at the price at which we bought feed barley last fall, the figures would be as follows: Cost of drain per acre.....\$11.37

Value of increase of crop: 20 bus, barley at 55 cts. a bus. 11.00 The draining done in 1893 amounted to 110 rods on five acres or 22 rods an acre. The cost is figured on the highest prices asked for work and material, both in 1893 and at the present. One-tenth of the above increase in

One-tenth of the above increase in crop would pay almost 10 per cent. on the investment."

Three points in this example are worthy of comment: first, 22 rods an acre means a distance of 120 feet between drains, which is much farther apart than is the general practice to-day. Second, two inch tile were used; to-day this size of tile is seld-dom used, owing to the fact that they

York Co., in the year 1893, drained five acres systematically. His son writes for him as follows:

Cost per acre of draining with 2 in, tile, 2 tr. 9 in to 8 ft. deep, 87.41.

Line, 2 tr. 9 in to 8 ft. deep, 87.41.

The preceding samples illustrate the results of drainage in general farming in years gone by and also at the presence of the prices prevailing here done at the prices prevailing here. The preceding samples illustrate the results of drainage in general farming in years gone by and also at the present time. Let us look at a case of specialised agriculture. Parts of Kent county are peculiarly adapted to the production of beans. Two brothers, Messrs. James and William Clayton, live on adjoining farms, near Cedar Springs, Kent Co. In 1901 the former drained 12 acres lying along the line fence, the latter left his undrained. The former sends us the following information: information

"Cost of draining 12 acres, \$168.01. In 1902 eight acres on each side of the line was put in beans. The results showed that

8 acres of drained land gave 302 bushels which sold for \$456.
8 acres of undrained land gave 24 bushels which sold for \$37.

busnels which sold for \$57.

That autumn both places were sowed to fall wheat. The next season 8 acres of drained land gave 45 bus, an acre; 8 acres of undrained land gave 20 bus, an acre, 8 oth seasons were wet.

The comparison each here, for the

Both seasons were wet.
The comparison ends here for the
next year there was drained land on
both sides of that line fence. Moreover, drainage became general in that
locality for the land lay beside the
road where every passer by could see
for himself, the difference, a difference
so great that "he who ran might
read."

Does underdrainage pay?

## The Feeders' Corner

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. K<del>eeeeeeeeeeee</del>

## Raising Calves on Skim Milk

Can calves be raised on separated milk? Please tell me how.—G. E. H., York Co.,

Please tell me now—G. E. H., York Co. Ont.

Calves can be, and are, raised quite successfully on separated milk. It is not advisable to feed separated milk from the start. The whole milk, professably that from the calves own the start of the first that the start of th

parated milk arises from feeding too much, irregularity in feeding and feeding the milk cold or sour. Strict cleanliness is essential. Unless the milk is fed fresh from the separator it should be warmed before feeding.

## Corn and Bran for Cows

I want to ask you a few questions. My cows are soon to freshen and my rough feed is timothy and clover hay mixed, corn stalks, ensiling and straw. How a ton make equally be for a ration for milking ownst-d. E. M., Genabruck Centre. Ont.

With such roughage as mentioned With such roughage as mentioned. I would suggest that to the equal parts of bran and corn meal another equal part of oil cake meal be added. If oil cake meal or gluten meal cannot be secured, then I would suggest mixing the meals, 200 lbs. corn and 400 lbs. bran and feeding rather more liberally than if oil cake meal had been added in the place of the extra bran.—J. H. Grisdale.

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Sales enson 1901, when first introduced, 15 lbs., 1996, 4, 53; lbs.; 1908, 9,78 lbs. 1909, 190

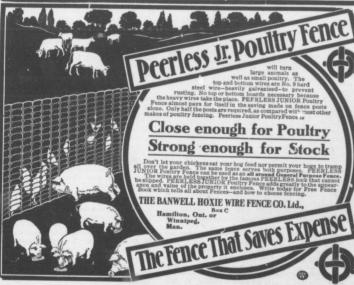
## BRUCE'S MAM. INTER. SMOOTH WHITE CARROT

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J. A. BRUCE & CO., SEED MERCHANTS HAMILTON, ONT.





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Resessa Crops fo

May 13,

Rettetes

FARM

What would piece of sand out, the gree Would it be over alone, I want an easecond time ain good cond year.—Rev. M If the las

ment; Plow row, say two es deep. We buckwheat, soon as poss Allow togrow or ten days, three and a Roll harrow every day o then seed do about eight to grow all for calves, or plough the f deep enough when brough ing of barn fter the plo then a few v plication of er would lik of clover. Se ing of oats, an acre. and 10 lbs. roll well after ed land thor J. H. Grisda

Utilizing M a

As I have of your advice remind giving your matter. I live left after nidea has been to after recediment. the left after n idea has been to after seeding to seeding down to should like to suits would as best do with it that would be to apply. Our winter killed, a of roughage for the best crop clover hay? Is according to pracording to pracording to prace the seed of the seed according to pr you.-H. C., Mu I would adv

barley rather grain is wishe you state in t letter, the p quantity of fe point, then I ing of a mixture 80 lbs., at the seeding, give dressing of m then seed. If first to advanta later, but be devenly and to

Seeding for

I have an acreut a crop of or cut a crop of cut a crop of cut a crop thing to seed it how much timoth kinds, and how with it, to produce crop this year 1 cut green for fod peas with them o clay—R. C. C. R.

Seed down w clover, two lbs lbs. red clover, 18 lbs. blue gr

## FARM MANAGEMENT wixture is suitable where it is intended to leave in pasture for several years. If it is intended to leave in \* FARM MANAGEMENT

## Crops for Conditioning Sandy Land

What would you advise me to sow on a piece of sandy land that has been run out, the green crop to be plowed under? Would it be a good idea to sow it to clover alone, or sandy retel or cow peas? Cover alone, or sandy retel or cow pease as each of the company of

year.—Rev. M. W. B., Lachute, Que.
If the land is very sandy indeed,
I would advise the following treatment; Plow with a very shallow furrow, say two and a half or three inchese deep. Work thoroughly and sow to
buckwheat, one bushel per acro, as
soon as possible say first week in May
Allow togrow until it blooms for a week
or tan days, then placery, the property or ten days, then plough under with three and a haif to four in furrow. Roll harrow and cultivate every day every day or so for a week or two, then seed down with Dwarf Essex rape about eight pounds an acre. Allow to grow all fall, pasture off with swine or calves, or sheep, or dry cows and plough the following with furrow just plough the following with furrow just deep enough to cover the buckwheat when brought up. Give light dressing of barn yard manure if possible after the ploughing. If not available, then a few wood ashes or a light application of some commercial fertilizer would likely help secure a catch of clover. Sow clover with light seeding of oats, say one and a half bushels an acre. Sow 12 lbs. red clover els an acre. Sow 12 lbs. red clover and 10 lbs. timothy. Sow early and roll well after sowing, having worked land thoroughly before sowing.—J. H. Griedle. ed land thorou J. H. Grisdale.

## Utilizing Manure-Supplementary Forage

ary Forage

As I have derived much benefit from your advice re cows I hope you will not use a street of the second of the second

I would advise applying manure on barley rather than on oat crop if grain is wished for. If, however, as grain is wished for. If, however, as you state in the latter part of your letter, the production of a good quantity of forage is an important point, then I would suggest the sowing of a mixture of oats, 100 lbs. peas, 80 lbs., at the rate of three and a half bushels an acre, Just before seeding, give a light evenly applied dressing of manure, harrow in and then seed. If seeding could be done for the contract of the seed in the contract of the seed in the seed. then seed. It seeding could be dolor first to advantage, then apply manure later, but be careful to spread very evenly and to give only a light dress-

## Seeding for Permanent Pasture

I have an area of land from which I at a crop of oats and peas (cut green) last year. This year I deare to seed it for pasture for cow or horse. Kindly inform me what you would consider the best form me what you would consider the best of seed it with this spring, viz., How to see the seed of the constant of the control of

Seed down with two pounds alsike clover, two lbs. white cover, four lbs. red clover, six lbs. timothy and 18 lbs. blue grass per acre. This

pasture for two or three years only, then the amount of blue grass might be cut in half and the timothy slightincreased.

ly increased.

In preparing the land, care should be taken to have it in perfect tilth before sowing grass seed. If very lumpy or rough it would be well so roll and harrow alternately once or twice before seeding. Sow seed very twice before seeding. Sow seed very thoroughly mixing different kinds of thoroughly mixing different kinds of two could parts and going over the two could parts and going over the seeds, dividing the whole thing into two equal parts and going over the whole piece. Sow one half as evenly as possible so as to cover the whole field going lengthwise and the other half of the seed to cover the whole

bushels oats and one half bushel peas. Watch carefully to see that the crop does not fall and smother grass. Cut at first signs of falling.—J. H. Gris-

## Re-Seeding-Land for Alfalfa

1. I have about 20 acres of pasture that was grub eaten or burnt in spots that you could easily remove in large flakes. Will it be necessary to re-seed this spring, and if so how many bushels will be required, kind of seed, and best time to do the same?

2. Would well drained new ground suitable soil for to try alfalfa in? Where can I obtain a culture, the price of the same and amount required to seed a quar-ter of an acre?—C. M., Bruce Co., Ont.

field going lengthwise and the other half of the set to cover the whole field going crosswise.

1. Land in such a condition as des-oribed would, I fear, have to be well worked up for a season before any worked up for a season before any satisfactory eatch of grass seed need be looked for.

2. Land to be suitable for alfalfa, must not only be well drained, but must lie so as to insure that water shall never lie on the surface. If the must lie so as to insure that water shall never lie on the surface. If the land is sweet, that is, does not turn blue litimus paper red, there is no reason why alfalfa would not do with reason why alfalfa would not do with of course the previously stated cun-dition noted. Culture can be obtained for a small fee of 25c for enough to treat one bushel of seed from the On-tario Agricultural College, Guelph, Ont.—J. H. Grisdale.

Pigs given away, for clubs of seven new yearly subscriptions. Write Circulation Department, Farm and culation Dairy, Peterboro.

I am a reader of Farm and Dairy and must say that I like it very much. It is first class in every res-pect.—S. W. L. Stuart, Selkirk Co., Man.

# **Prize Farms Competition**

FARM AND DAIRY, Peterboro, Ont., the only farm and dairy paper published in Canada, has arranged for the holding of a great competition throughout Ontario during 1909, 1910 and 1911, at decide which are the best dairy farms and dairy farmers in the Province. During 1910 and 1911 a portion of Quebec may be included in the competition.

## 60 GOLD AND SILVER MEDALS

60 GOLD AND SILVER MEDALS

Ontario, excepting New Ontario, will be divided into four districts. This year (1909), five gold and ten silver medals and handsome diplomas will be offered for the best farms in each district. The districts will be approximately as follows:

DISTRICT No. 1.—That portion of Eastern Ontario bying East of a line running North of Kingston. DISTRICT No. 2.—The counties in Eastern Ontario between Kingston and Yonge St., Toron.o.

DISTRICT No. 3.—Western Ontario, North of a line running from Hamilton to Goderich.

DISTRICT No. 4.—Western Ontario, South of a line running from Hamilton to Goderich.

These districts are subject to revision after the entries have all been received, to facilitate the judging of the farms.

ing of the farms.

## JUDGING THE FARMS, THE POINTS **OFFERED**

OFFERED

The farms will be judged twice; once in July and once in December. All departments of the farm will be indeed in the competition. One thousand points will be offered, subdivided as follows:

House 150, viz., plan, finish and approaches, 25; lawns, 15; garden and orchard, 35; interior arrangement, 30; sanitation, 20; education, 25; total 150.

Farm buildings 150, viz., provision and size, 25; laght and ventilation, 20; neatness, 20; convenience, 22; light and ventilation, 25; yard, 10; total 150.

Live Stock 200, viz., number, 40; quality and condition, 40; breeding and methods of breeding, 40; feeding, 20; poultry, 15; horses, 30; swine, 16; total 200.

200.

Crops 200, vis., yield and condition, 75; freedom from weeds, 75; suitability, 50; total 200.

Farm Management 150, vis., arrangement of fields, 20; rotation, 26; ice and water, 20; fences, ditches, roads, etc., 20; workmanship, 26; preservation of manure, 20; book-keeping and records, 20; total 150.

Machinery 75, vis., supply, 25; repair, 25; housing, 15; character, 10; total 75.

Permanent improvements, 75; total 75.

Grand total, 1,000.

Permanent improvements, 10; total 10.
Grand total, I,000.
The farms in each district scoring the highest
number of points will be awarded the prizes. During
1910 and 1911 the prize winning farms this year
will be allowed to compete in a final competition to
decide the best ten dairy farms in the Province.

### THE RULES

1. Farms and contain at least 90 acres. The whole farm the stared. Swamp, stony or poor land cannot but the judges will have power to leave the use of their discretion they so

FARM AND DAIRY.

2. Farmers with 90 acres of land must have ten cows, 200 acres of land, 15 cows; 300 acres of land, 25 cows; 300 acres of land, 25 cows. The competitors must be sending the milk or cream of that number of cows at least, to a cheese factory or creamon, or to the city or making it into hutter or cheese.

number of cows at least, to a cheese factory or cream-ery, or to the city, or making it into butter or cheese.

3. Only practical farmers will be allowed to com-pose. If necessary, competitors will be active to cou-furnish proof that their chief occupation is farming, and that they have been engaged in farming prin-cipally, for at least five years previous to the com-metition.

4. To assist in defraying the expense 4. To assist in derraying the express of the con-petition there will be an entry fee of \$2.00, and com-petitors will be expected to join either the Eastern or Western Ontario Dairymen's Associations.

5. Entries must be sent to H. B. Cowan, Farm and Dairy, Peterboro, Ont., with the entry fees, on or before June 15th, 1909.

6. Successful competitors will be required, when asked to do so by the judges, to furnish essays on any two features of their farm work that may be called for. These, however, will not be counted in the awarding of prizes.

7. The committee of management reserves the right 7. The committee of management reserves the right to refuse the entry or entries of farms, the accep-tance of which it may deem would be unfair, owing to special conditions, to other competitors. These rules may be extended or amended if the committee deems such action to be in the best interests of the competition.

## CONTRIBUTORS

The holding of this competition has been materially assisted by a contribution of \$250, that the committee of management has received from Dr. Jaw. Robertson, principal of Macdonald College, Quebee, and by one of \$150, received from the Eastern Ontario Dairymen's Association. Other similar contributions will be anymediated. will be appreciated.

## COMMITTEE OF MANAGEMENT

COMMITTEE OF MANAGEMENT

The following well known farmers and dairymen have kindly consented to assist Farm and Dairy by acting on the Committee of Management that will have charge of the Committee of Management that will have charge of the Committee of Management that will have charge of the Committee of Management that will have charge of the Committee of Management that will have charge of the Committee of Management of the Committee of the Management of the Committee of the Management of t

Peterboro, Ont.

G. H. Carpenter, Wentworth Co., Ont.

Although feeling may differ as to the best methods of cultivation, there are some principles that every grower should understand. The chief objects of cultivation are to furnish our trees with food and the proper conditions of growth. In the early days of farming and fruit growing there was plenty of natural fertility in the soil; now we have to replenish the soil, be-sides making the fortility already there, available. Tillage is needed to conserve moisture.

conserve moisture. We must study the soil and select one suitable to the kind of trees we wish to plant. The soil must be properly prepared previous to planting. It should be naturally well drained; if it is not, we must resort to tile drainage. Rolling soils need underdraining as well as those which springent. Shallow plowing in the properties of the precised, and then frequent shallow cultivation during the season. the season.

A young orchard may be inter-crop-A young orchard may be inter-eropped, but this should not be done too much, as these crops take a considerable amount of food from the trees Young orchards should not have sod or hay grown in them. They should be cultivated constantly till the end of July or middle of August, then a clover crop should be sown.

During the first few years of an orchard the earth should be plowed deeply to open up the soil. The extension disc and cutaway harrows are excellent inplements to use, especially in orchards of low-headed trees.

Hoe crops are excellent for an

excellent implements to use, especially in orchards of low-headed trees.

Hoe crops are excellent for an orchard, such as turnips, potatoes, etc.; rapo is also good. Some people grow nursery stock there, but it makes aimlar demands on the soil to orchard trees; hence, in order to do this, fortilizers must be used. Peach and plum trees, etc., can be cropped two plum trees, etc., can be cropped two plum trees, etc., can be cropped two most powers and apple orchards for even of the control of the co also grown to some extent.

## The Crown Gall of the Apple

The Crown call of the Apple Crown gall is a term applied to certain warty outgrowths or excrea-cences upon the apple, pear, peach, raspberry, etc., forming chiefly on the parts below ground. On the ap-ple these growths are more apt to oc-cur on grafied trees but they may form at any place where the roots have been injured in transplanting, etc.

etc.
Recently, Dr. Erwin F. Smith and
Rureau of Plant his associates in the Bureau of Plant Industry, U. S. Department of Agriculture, have demonstrated quite conclusively that crown gall is caused by a specific bacterial parasite. Moreover they have shown that it is very omnivorous in its tastes, being able to cause warty outgrowths or

were shipped bore a tag stating that the orchard from which they came had been officially inspected and found free from disease. Three out Three out found free from disease. Three out of the 60 trees or five per cent. of the shipment had well developed crown galls upon them. This experience indicates that every orchardist should very carefully inspect all stock which he purchases for setting this spring. All trees showing evidence of crown gall should be either returned at once to the shipper or burned, and future or burned, and future or burned, and future or burned to the shipper or burned, and future or burned to the shipper or burned, and future or burned to the shipper or burned, and future or burned to the shipper or burned, and future or burned to the shipper or burned, and future or burned to the shipper or burned to the ship either returned at once to the ship-per or burned, and future orders placed with nurserymen who can and will furnish trees free from disease. Under no condition should trees be planted which show growths of this kind upon the roots, for not only will it result in an unthrifty and un-profitable tree, b.z it will also infect the soil with the crown gall organ-ism and endanger other plants.

## Growing Celery

Henry J. Fisher, (aged 12), North-umberland Co., Ont.

We had a fine crop of celery last

We had a fine crop of celey last year and I am going to tell how we grew it. We had upwards to 500 clarks and it am going to tell how we grew it. We had upwards to 500 clarks and it am grew it. The first thing we did not be seed as a summar a small plot for growing the seeds early in the spring. When the plants grew up about three or four inches high we transplanted them to another place. We took the plow and made a ditch about one foot deep, where we intended to have the celery. Then we put about two inches of manure in the bottom and covered it with a little earth. When they were transplanted, we put boards or earth top of them to keep the sun off the plants until they caught rocculad could stand the heat of the sun. After we got the boards or we took. After we got the boards on we took two or three pails and put a little water on, enough to moisten the soil When it gots five or six inches high we took a horse and stone-boat to draw two large milk cans of water; then we poured it on the plants. We put water on about every night in a

then my the state of the state

a stone-boat to bring it in. while one digs each plant out separately with the shovel the other puts in on the stoneboat in rows with all the dirt the roots will hold. When we get a the roots will hold. When we get a load on we take it to the house and put it in the cellar. We carry dirr in pails or in boxes to put on it in the cellar. When we put it in it is always put in in rows and put dirt on up to the leaves. Every row is put in, in the same manner until we get it all in. After it is in the cellar about three or four weeks, it starts to bleach and gets crisp. We have celery yet (April 1st) and it is keeping well. The name of the celery that I am writing about is the Winter Triumph.

## The Farmers' Carden

A. S. Werden, Prince Edward Co., Ont.

able to cause warty outgrowth or galls on a surprising number of different and unrelated species of plants when these plants are inoculated with pure cultures of the organism. Galls have been produced in this way upon the following maned plants: Peaches, almonds, apples, hops, Paris daisy, walnut, grape, radish, tomato, Not long ago the Maine Experiment Station purchased 60 apple trees from a leading New York nursery want.

In wax dwarf beans, the Stringless Wax is the best. In green podded, pole beans, the Lazy Wife is ac good as any. In beets, Edmand's Early Turnip and Crosby's Egyptian are the best. In cabbage, Early Jersey best, in cabbage, Early Jersey Late fill the bill. In carrois, Half Long or Intermediate is as good as any. In sweet corn, Premo for early long or Intermediate is as good as any. In sweet corn, Preme for early and Evergreen for late are the best In cucumbers, the White Spine s'thl has the lead. The Nonparell lettuce is the best. In muskmelons, try the Strawberry. In water melons, Cole's Early, Ice Cream and Hungarian Honey are the best.

In onions, the Yellow Globe Danvers and Red Wethersfield lead; these may be grown from seed, but for the busy farmer I think it pays best to buy what is catalogued as Yellow

to buy what is catalogued as Yellow Dutch onion sets, which grow to be nice large onions and are easier and cheaper to raise.

cheaper to raise.

For garden peas, the Alaska for
early and Stratagem for late are my
favorives. In radishes, the White
Tipped is one of the best early sorts,

Tipped is one of the best early sorts, while for winter use the long Black Spanish is about the best. In squashes, the Crookneck is the best for summer and the green Hubbard is as good as any for winter use. In tomatoes, nothing beats the Earlians for early, while the Stone is a good main crop variety.

I have now reached the end of my list and it is open to criticism from those who know of better varieties. I would urge every farmer to try the experiment of having a garden and see what a source of pleasure it will be to have vegetables of his own just when he wants them, and he will also find it profitable.



Whether you meet a wolverine in the Rockies or a wildcat in Nova Scotia, you will be glad if your gun is loaded with *Dominion* Ammunition. Every single car-tridge or shot shell can be depended upon as absolutely as if loaded especially for an international match. Dominion Cartridge Co., match. Domin

## DOMINION AMMUNITION

Clarkson's Fruit Growers.—At the snual meeting of the Fruit Growers' Association of Clarkson's and Lorne Fark, Ont., the following officers were elected: Piece, L. A. Hamilton; lat vice-pres., John Manley; see, W. G. Horne; treas., W. Clements directors, R. Lush, C. Sproule, J. Lightfoot, R. Speck, Geo. Manley, G. Adamson and J. Pengelly. The various reports submitted showed the Association to be in a highly prosperous condition and to be accomplishing an excellent work in furthering the interests of the fruit growers in that locality. Clarkson's Fruit Growers.-At the

There is money in the orchard.



## There Are No Two Ways About It.

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THE PAGE WIRE FENCE COMPANY, Limited WALKERVILLE TORONTO MONTREAL ST. JOHN

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

\*\*\*\*\* POU

May 13, 1

\*\*\*\*\*\* Poultry Ind ling S R. W. Hods

The Proving is admirably ing, owing to fruit growers. young orchar-make not onl out of their p In reviewin

eggs for the a steady incr the averag cents a dozen a dozen. Th accounted for marketed in dition, are be the province i and poultry pring to the propoultry raisin are being est and on the couver, where cal market. The Provinc

ing what a pitry raising catthe various d co-operative eg connection wit first of these sta at Duncans. eggs are furn number stamp, cach egg befo eggs are delive the creamery, put on the ma This method give a month! poultryman, a ery, and a gue consumer. He consumer. He poultryman ha to the village i price out in tive method of remedy this last courage and bindustry, just a built up the da

Winter Fe Asked as to during the wir housed in the Prof. W. R. Grwhile addressin Peterboro recen feeding is not it winter. When we sow wheat in of a onert for of a quart for

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At noon fill a r clover hay or a

Poultry

Only One for this pa Send us only C

RURAL

## POULTRY YARD

Tueseseseseseseses X Poultry Industry and Egg Handling Stations in B. C.

R. W. Hodson, B.S.A., Live Stock Commissioner

G. W. Housen, B.S.A., LAWE DECOMMISSIONE.

The Province of British Columbia is admirably suited for poultry raising, owing to the mild elimate. Many fruit growers, while waiting for their young orelaseds to come into bearing, out of their poultry.

In reviewing the market price for eggs for the last few years, we note a steady increase in price. In 1905-6, the average market price was 30 cents a dozen, This advance in price is accounted for in that eggs have been marketed in a cleaner, fresher condition, are being better packed, also fewer eggs have been imported into the province from the East, although last year 8, 160,000 worth of poultry have the province was imported. Owing to the produce was imported. Owing the province many serving many conditions are not serving to the produce was imported. Owing the province was imported. Owing the produce was imported. Owing the produce was imported. Owing the produce was imported. One made from wallier variating many serving the produce the produce was imported. Owing the produce the produce was imported. Owing the produce th and poultry produce was imported. Owing to the profit to be made from
poultry raising, many poultry farms
are being established; this is especially the case on Vancouver Island,
and on the mainland around Vancouver, where there is a splendid local market

The Provincial Government, realizing what a profitable industry poul-try raising can be made, are aiding the various districts in establishing co-operative egg handling stations in connection with the creameries. The first of these stations has been established at Duncans. The farmers supplying eggs are furnished with a rubber number stamp, with which they stamp cach egg before delivering it. The eggs are delivered on cream days at the creamery, are there candled and put on the market with a guarantee. This method of handling eggs will give a monthly cash price to the poultryman, a profit to the creampoultryman, a profit fc the creamerty, and a guaranteed article to the consumer. Heretofore, the average poultryman has had to sell his eggs to the village storkeeper, taking the price out in trade. This co-operative method of handling eggs should remely this last evil, and should encourage and build up the poultry industry, just as the creameries have built up the dairy business.

### Winter Feeding of Hens

Winter Feeding of Hens and winter, when they were boused in the cold air buildings, prof. W. R. Graham, of the O.A.C., while addressing the poultrymen in Peterbors recently, replied, "Hopper feeding is not to be recommended in square from the description of a guar for every 25 hens for the or a guar for every 25 hens for the unitered of the description of the description

gaseseseseseseseseses furnished twice a week by being hung on a nail in a convenient place. On cold days, more grain is added to the litter. At night we fill the trough cour days, more grain is added to the litter. At night we fill the trough full of whole corn. Beef scraps and dry mash is before the hens at all times in hoppers. Water is supplied when the weather is not too cold, otherwise we simply shovel in snow for

### Imformation on Poultry

Much useful information concerning poultry is contained in the evidence of Mr. A. G. Gilbert, manager of the poultry division of the Central Experimental Farm as given before the

perimental Farm as given before the select standing committee on Agri-culture and Colonization in 1997-08. The evidence deals with the housing, breeding and feeding of poultry. Information as to turkeys, gees and ducks, their proper relations, fattening, plucking and dressing, each and all are dealt with. Copies of this evidence may be had for evidence may be had free on applica-tion to A. G. Gilbert, Poultry Manag-er, Central Experimental Farm, Ot-

## Make it Widely Known

It is just possible that many good dairy farmers throughout Ontario may dairy farmers throughout Ontario may have not heard of the Dairy Farms Competition to be held this year. Farm and Dairy will greatly appreciate the favor if our readers will tell their neighbors about the competition and show them this copy af Farm and Dairy in which an announcement appears. To have a farm in your section win a price in this dairy farms competition, will be a distinct redit to your locality. It will not only give you much advertising of a very desirable nature but it will tend to work improvement on other farms. to work improvement on other farms in the neighborhood. The spirit of progress and of farm improvement is catching once it is made manifest in any particular section.

Do not put off telling your friends about the competition. The time before the entries close is not far discovering the competition. tant, consequently any prospective competitors should know about the competition immediately. We trust competition immediately. We trust that our readers will lend us their cothat our readers will lend us their co-operation in making this competition as widely known as possible. Farms that at a casual glance, owing to buildings that are somewhat out of date, might not seem likely prize wrin-ners, may, when under the trained, eye of the judges obtain a high score. Therefore do not think that your farm would not stand a winning charac-

er, the Mormon State Association wanted him and put up the figures

wanted film and point.

To a most tempting point.

This horse is undoubtedly the finest example of Clydesdale symmetry and form on the continent. His massive and well rounded body is supported upon as good a set of legs and feet as can be found. The smooth flinty bone, the just-right feathering and the bone, the just-right feathering and the action are faultless. Graham Bros., are to be complimented on the man-ner in which this horse has develop-ed. That he leaves the country is a decided loss.

## National Record Board Meet

Considerable discussion on the rules overning the National Live Stock governing the National Live Stock Records took place at the annual meeting of the National Live Stock Record Board held Friday, May 7th, at the Queen's Hotel, Toronto. As the rules now read, pure-bred animals can be registered in the Dominion records provided that the Dominion records provided that the breed is affiliated with the National Record Board and provided that the owner can show the proper pedigree. Animals eligible for registration in the Canadian Record Books are outer the Books can enter the corntry duty free. The importer, however, must be a British subject or be domiciled in Ca-

British subject or be considered in Canada.

A Nova Scotian who had purchased a Devon bull from a United States breeder, discovered on bringing it into Canada that he must pay duty on it since there was no Canadian



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Dairy, Peterboro, Ont.

FOUNTAIN PENS, 14 K. GOLD—FREE IN return for one new yearly subscription to Farm and Dairy. Write Circulation Dept., Farm and Dairy, Peterboro, Ont.

GREAT REDUCTION.—R. C. Rhode Island Reds. Eggs from great producers and winners, after May 15. only 75c per 15.— Bert Smith, Colinville, Ont.

EGGS FOR SALE — Barred and White BGOK; White and Silver Wyandottes; Black and Bull Orpingtons; Single and Bose Combed B. J. Reds; Browr and White Leghorns; Black and Siver Ham-burghs; Houdans; Black Jewar Dorkins. These birds won over 30 first priess as the silvers; egg. \$1.00 per 15. Box A. Farm and Balry.

EGGS FOR HATCHING-Orders for hatching eggs booked now at \$2.50 per 15, from Canada's greatest S. C. Buff Leghorns Send for 1909 mating list.—Box B. Farm and Dairy.

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EGGS from purebred Buff Orpingtons, one dollar per 15; Guineas and Imperial Pekin Ducks, one dollar per twelve; In-dian Runner ducks, one dollar per nine. All farm raised.—Box 93, Farm and Dairy.

WHITE WYANDOTTE EGGS at \$1 per 13, from heavy laying stock.—J. R. Hope.

EGGS.—Brown Leghorns, Blk. Hamburghs, W. Wyandottes, \$1.00 setting, Blk. Min-oreas, Buff Orpingtons, \$1.50 setting, Cockerels for sale.—H. Lush, Peterboro,

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STRATFORD

ONT.

Devon Breeders' Association. He had written the National Record Board asking if a Devon Breeders' Association could not be formed. The rules atom could not be formed. The rules of the Record Board require that there shall be at least five membors interested in a breed before an association can be formed. Dr. Rutherford, Dominion Live Stock Commissioner, to whom the communication had been addressed thought that he knew of five men who were interested in this breed, so the matter was left in his hands. in his hands.

in his hands.
After the discussion, the following resolution was made and passed; Moved by Peter White, and seconded by Jas. Bowman "That in order to obtain free customs entry of saimals of a recognized breed recorded in the control of the contro of a recognized breed recorded books of record other than those books of record other than those of the country of the origin of the breed as laid down by resolution at the an-nual meeting of this board held April 30th, 1908, that the Live Stock Com-missioner be requested to take the necessary steps to encourage the form-ation of the necessary records for breeds in question."

A discussion on the meaning of the word "domicile" then followed. It was defined as "the place to where a man returns after a temporary absence." Several cases were then cited Sonce. Several cases were then cited of where breeders of the United States had bought farms in Canada and while they were not permanently domiciled in this country, they were permitted to bring animals into Canada duty from

dominical in this country, they were been clied to bring animals into Canadidate to bring animals into Canadidate to be that any farmer could go to the United States, buy up stock and bring them into Canadidate the Country free. The National Royal Board them made the following them into the Canadidate of the Indianal Canadidate of the Canadidate of the

been imported.

The following representatives were elected to the Board: Chairman of the Board, Roht. Miller, Stouffrille, Ont.; heary horses, Wm. Smith, Columbus, Ont.; light horses, John Bright, Myrtle, Ont.; beef cattle, A. W. Smith, Maple Lodge, Ont; dairy cattle, Robt. Ness, Howick, Que; swine, J. E. Brethour, Burford, Ont.; sheep, J. M. Gardhouse, Weston, Ont; secretary, J. W. Brant, Ottawa.

### Items of Interest

Mr. W. G. Trethewey, the million-aire farmer, of Weston, Ont., has just imported a valuable herd of pure bred Guernsey cattle, the result of which will be likely to create a greater in-terest in the breed in Canada

It is reported that Dr. Chas A. Publow, Associate Professor of Dairy Industry in New York State College of Agriculture at Cornell University, has been offered a place on the Royal Commission of the Canadian Government, investigate the associated of Canadia Control of the Condition of the Canadia Control of Canadia Can mission of the Canadian Government to investigate the sources of Canada's milk supply. The commission is to travel through the United States and in many foreign countries to study this problem. Dr. Publow has not yet made up his mind to secopt the position.

Send us the Names of your friends sond us the Names of your friends and neighbors who do not take Farm and Dairy, that we may send them and Dairy, that we may send them the property of the paper helps you, it will help them. You can thus spread the gospel of good farming, and confer upon us a favor that we will appreciate.

I have taken Farm and Dairy for many years and highly appreciate it. —Alexander Smith, Durham, Co...



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2. How far 3. What is wire or rods what size? 4. Would it of the groun 5. Does a. J. E. H., B

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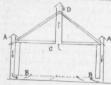
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## Ventilated Root Cellar

Will you kindly explain the best method of building a root cellar and ventilating the same in order that we can keep man-gels, turnips, etc., in such a condition that they will not rot?—A. B., Dunham, Que.

they will not rot?—A. B. Dunham, Que.
The right kind a wall is stone
but codar posts will asserve very well
and may be expected to last 12 or 15
years. Roof might be to last 12 or 15
years. Roof might be to last 12 or 15
years. Roof might be to last 12 or 15
years. Roof might be to last 12 or 15
years. Roof might be harn, using
dor ailroad rails for support and making the roof of cement.
Where cellar is located roots can be
easily filled in from above and good
ventilation may be obtained by leaving a few holes three or four inches



in diameter around the bottom as in-lets and corresponding holes as outlets for warm air at the ceiling. Where a stone walled root house is built as a cellar or partly under ground, a good system of ventilation is as in-dicated in the diagram below where air goes down the shaft at "A" and into, roots at "B", leaving cellar at "O" and striking cold air at "D." If desired a lattice work box might extend across under roots, and so per-sattend across under roots, and so per-

are desired a lattice work box migni-extend across under roots, and so per-mit of fresh air going up through roots right across root house. Care will need to be taken to partly close inlets in very cold weather.

## Queries re Cement Silo

What is the best sample of gravel to use, and in what proportion should it be uixed for a 12 foot silo, 30 feet high, and 0 feet under embankment?

2. How far apart should the doors be? 3. What is the best to use for stays, wire or rods? If so, how far apart and what size?

4. Would it need stays under the surface of the ground? 5. Does a cement silo need draining? J. E. H., Bruce Co., Ont.

5. Does a cement suo nece aratining.

J. E. H., Bruce Co., Ont.

1. The best kind of gravel to use is any from the size of peas up to the size of hen's eggs with sufficient sand to fill all the voids. If gravel has not naturally got sufficient sand to fill all the voids, sand should be added. From three to five cords of stone can be used in this silo if the gravel used is not too coarse. The stone can be imbedded in the concrete while it is quite soft. Any stone can be imbedded in the concrete while it is quite soft. Any stone can be imbedded in the concrete while it is quite soft. Any stone can be imbedded in the concrete while it is quite soft. Any stone can be imbedded into the gravel of the surface of the wall. For all concrete the wall concrete the w

2. The doors should be made two by three feet and placed from three feet to four feet apart, the first door being on a level with the ground.

3. Re stays, wire rods; a silo 30 feet high and ten feet in diameter would require about 300 pounds of rewould require about 300 pounds of reinforcing which can be made from old
barb wire, wagon tire, or ordinary
nuarter inch round iron. It is not
nuarter inch round iron.
It is not each
and inch inforcing should extend
ham of re-inforcing should extend
ham of re-inforcing and commencing
hart of the bands can be equally
divided; the first band commencing
hout three feet above the ground
and the last band within one foot
of the top of the silo.
It is not re-inforcing underground.

4. Re re-inforcing underground. o, as concrete is not affected by No, as concrete is

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## The Judges will be:

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expansion and contraction from exposure to heat or cold no re-inforcing is necessary under ground.

Oats and Peas for Winter Feed Does it pay to grow peas and oats mixed, for winter feeding? Would this

is necessary under ground.

5. Re draining: It is not customary to drain cenner silos. The bottom of the silo should be placed above water level as it is not necessary to have a silo any certain distance under or above ground, however, if a good drainage can be secured there is no clojection to having the silo several feet under ground. The most popular distance is five feet.—Londo Concrete Machinery Co., Limited, H. Pocock, Manager. Manager.

Renew Your Subscription Nos.

Does it pay to grow peas and oats mixed, for winter feeding? Would this mixture be difficult to cure? Can it be fed to horses?—A Subscriber.

where the supply of hay is likely to be short it will be found profitable to sow peas and oats mixture for hay. Sow three and a half bushels an acre of a mixture of one bushel peas and two bushels oats. This mixture should be cut when the grain is well formed, that is in the late milk and is not difficult to cure under average climatic conditions. It may be advantage it conditions. It may be advantage couly fed to horses, but if allowed to get too far advanced before har-

vesting, it may be found necessary to run through a cut box, in order to get the best results.—J. H. Grisdale.

Send us the Names of your friends and neighbors who do not take Farm and Dairy, that we may send them sample copies. If the paper helps you, it will help them. You can thus spread the gospel of good farming, and confer upon us a favor that we will appreciate.

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### FARM AND DAIRY PETERBORO, ONT.

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

### AN OPPORTUNITY FOR AGRICUL **TURAL SOCIETIES**

The Provincial dairy farms competition to be held this year throughout Ontario should be productive of much good. In view of the splendid results of former competitions of this nature together with the interest already shown in the competition as announced for this year, the work may well be taken up and extended by agricultural societies throughout Ontario.

To win a prize in a farms compe tition of this nature is an honor of no mean consideration. An exhibitor at an agricultural exhibition may carry off many prizes on individual entries such as stock, seed grain or farm products. Such winnings tell but little of that winner as a farmer. In fact, taken on the whole, he may be one of the poorest farmers in the section. On the other hand, a winner in a dairy farms competition must

be an all round good farmer in order to stand a chance of success.

It will be worth something to have an idea of who is the best dairy farmer in Ontario. In many ways it will be worth as much to a particular section, and possibly more, to know who is the best dairy farmer in that section. Such a farmer being located near by, will afford object lessons for others in that section. His farm and his methods can be studied at first hand, whereas with prize farms in districts more remote, such privileges, owing to expense, are denied.

Those agricultural societies that have been interested during the past two years in the standing field crops competition, know the value of that work. The possibilities of the dairy farms competition are infinitely greater. Agricultural societies might well offer prizes to their members to compete in our dairy farms competition. By doing so they will be acting in the best interests of their members, they will enlarge the field of the competition and illustration farms will be found out and located at their very

### TRAINING TEACHERS IN AGRICUL-TURE

The establishing of the course now under way at the Ontario Agricultural College, whereby it is sought to train teachers in the scientific principles and practices of modern farming, is a most important scheme. Instruction is being given in the lecture room, laboratory, work shop, garden and field. The theory and de monstration of the lectures and laboratory illustrate the out-of-door prac tices; the course is elementary in character, the needs of pupils in the rural school being kept in view. Most of the instruction being given is of a practical nature and for the most part is given out of doors.

While it cannot be hoped that these teachers can be made experts in agriculture in so short a time, the course will tend to help the school teacher, that will make a country or a village school to sympathize with and direct, to a certain extent at least, the life interests of the country boys and girls. These teachers in training will be available for service in the schools next September. It is to be hoped that their work as a result of this course may be such as to justify the Department of Education in continuing and extending it.

### OUR BACON INDUSTRY

Notwithstanding the present high price of bacon our farmers generally do not seem inclined to re-enter the bacon industry, which they have dropped to so great an extent during the last year. The reduced killings, the decline in shipments of Canadian bacon to the English market, and the scarcity of hogs in Ireland and England, have had a decided effect on raising the price of bacon. The strong wheat market and the advance in grain generally, has had much to do with this advance. There seems to be no prospects of lower prices.

Canadian bacon shipments, Mr. P. B. MacNamara, Trade Commissioner in Manchester, has the following to say: 'It seems as though Canadian bacon 'was losing its hold, and it is a pity "that farmers should not be alive to "the great disadvantage this will be to 'Canada at some future time. If Canadian bacon drops out of the English market, it will take some 'time before it can be reinstated. Knowing ones forecast very high 'prices for hog products throughou. 1909."

Early reports that have come to hand from a census being taken by Farm and Dairj, point to the fact that the bacon situation in Canada is even in a much worse condition that we had feared. Reports have come in from correspondents stating in some cases that there are not one third as many hogs in their district this year as there was last. Many estimate the number at 50 per cent. Our bacon industry has been built up at a considerable cost. It would seem a pity to drop it, since we have the market established

The interest at stake warrants some action being taken. Possibly no one thing that could be done would help more to revive interest and ultimately lead to introducing better methods in the handling of our hogs than the sending of the proposed commission of farmers to Denmark and England as has been asked for by the Dominion Swine Breeders' Association.

### POULTRY INDUSTRY IN BRITISH COLUMBIA

The Provincial Government of Bri tish Columbia has taken an advanced step in the poultry industry. It is offering aid to various districts in establishing co-operative egg handling stations in connection with the creameries. Eggs bearing the stamp of the farmers who furnish them, will be delivered at the creameries on cream: days. These will be candled and put on the market with a guarantee as to quality. Similar methods of handling eggs have long been in vogue in Denmark. They have been a mighty factor in building up the poultry industry of that country. It is only fit and proper that we in Canada should adopt their methods. The work may well be extended not only in British Columbia but throughcut the other provinces as well.

In order to maintain good prices for eggs, it is necessary that the examination, sorting, packing and shipping of eggs be carefully carried out. Danish egg handling associations have been able to gain a reputation for handling good stock through their perfect organizations and their system of stamping the eggs, whereby they can trace all bad eggs back to the producers. When it is known that members in the collecting districts in Denmark receive an average price of 12 cents a pound for eggs, whereas when the association was started 14 years ago, only eight cents a pound was paid, the possibilities of what a similar system can do for the farmers of Canada are evident. One cr the most important of these as-Commenting on the shrinkage in sociations in Denmark is The Co-op-

erative Export Association at Veile. It 1897 it did an export business amcunting to about \$3,216,000. This was increased to \$6,832,928 in 1906. This association has more than 500 district organizations with a membership of about 40,000 contributors from whom eggs are collected.

British Columbia is to be commended for her enterprise in organizing this work in connection with her creameries. Saskatchewan has al-1cady made a success of work of this nature. The agricultural departments of other governments cannot too soon fall in line and organize similar egg handling stations. They will mean much to the farmer of the future and to the prosperity of the country at large.

## VALUABLE DEMONSTRATIONS

When asked what it costs to feed a cow, the average dairyman, if he could tell, would say about \$3 a month. This is a reasonable estimate. If it costs \$3 a month to keep a cow, then a cow that does not give at least 5,000 pounds of milk can make very little profit for her owner. The cow census for Eastern Ontario, taken by Mr. G. G. Publow, Chief Dairy Instructor, last season, brought out the fact that of the 340,829 cows covered by the census, an average of only 2,700 pounds of milk was obtained from each during the season of six months of cheese making. Many herds must have fallen far below that mark. The great possibilities of cow testing, when carefully studied and systematically carried on, are conclusively shown when we compare the record of the cows covered by Mr. Publow's census with those in the cow testing association at Rockford, Ont. In the cheese making period of six months last year, the Rockford cows averaged 6,098 pounds, or over twice the average production of the cows covered by Mr. Publow's census.

Systematic cow testing and a study of individual records as carried on by progressive members of the cow testing associations have brought out some unique examples of the great value of this work. Individual herds have been increased in production no less than 58 per cent. Mr. A. J. Davis, an Oxford County, Ont., dairyman, had, by means of keeping records and studying his individual cows, raised his herd average of 6500 pounds per cow for 1905 to 9,000 pounds a cow in 1908. Such figures surely talk and if we are going to keep cows at all, let us see to it that we know what it costs to feed that cow, what she produces, and what profit there is over and above this for her owner. Cow testing will do for us just what it has done for others. For years the Danes have demonstrated to us the value of this work. During the last three years, and at present we are having it demonstrated right here at home. Let us profit by such demonstrations.

When you write to advertisers, mention Farm and Dairy, and be protected by our guarantes printed on this page. Only reliable advertisers are permitted to use these columns.

May 13, On a 1—Can you necessary cap acre farm in hog raising shire pigs)?
2—What amof good land 3—Would yo such a place, ditions of es 4—Or what i working 50 a turns?—R. W.

1 and 2 .where all th might reason enough roug handle 15 cov es. With go might be incof horned cat four horses we conditions w would be suff Holst from \$50 to ity and seas ting them at would cost \$ from \$125 to would make \$ would cost \$6 live stock. A mal such as prove satisfac

3-Such a p scribed above a be expected to follows, provid cheese or butt 15 cows-\$60 Later milk so 20 pigs—200 l .. cwt. ..... Poultry ....

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If milk was from cows mig \$600 or \$700 gr Outlay might Bran, shorts, addition to

farm .... Labor in addit Repairs, etc...

This leaves \$1,000.00 to pay living, taxes, et 4.—The great acre farm in Ea line of farming pork and poultr would advise classes of live bred sires, ther into pure bred c try. The ideal of all kinds eve horses. If prop breds are very n

than grades.
To get best rewould need to farm and a good ensiloing corn. be to divide off on which to foll ton: Corn, grain three 3-acre field following a three mixed grain, pe green; clover ha the farm would orchards, gardens or cattle, roads, a

Every farmer and Dairy comin

## On a 50 Acre Farm

Un a 5U ACTE FARM

—Can you tell me what would be the necessary capital required to stock a 50-acre farm in Ontario for dairying and acre farm in Ontario for dairying and Service of good land support.

—What amount of stock would 50 acres of good land support would 50 acres of good land support such a place, run under hear acres conditions of eastern farming working 50 acres of the support of

d-of what is your idea of stocking and working 50 acres for the greatest returns?—R. W. P., Haleyonia, Sask.

1 and 2.—On a good 50-acre farm where all the land was arable one might reasonably expect to produce chough roughage to begin with to be compared to the consideration of the consideration of the consideration of the constant of the constant

3—Such a place well stocked as described above and well managed might be expected to give returns about as follows, provided milk was sent to cheese or butter factory.

Poultry .... 100.00 \$1,390.00

If milk was sold to city, returns from cows might be expected to be 8000 or \$700 greater.

Outlay might be expected to be:
Bran, shorts, meal, etc., in addition to feed raised on farm from the companion of the

..\$100.00 tor . . . . . . . . . . . . . . . . 200.00 Repairs, etc. . . . . . . . . . . . . 100.00

\$400.00

This leaves a balance of about \$1,000,00 to pay all other expenses of living, taxes as a balance of the control than grades.

broas are very much more promane-than grades.

To get best results a good rotation would need to be followed on the farm and a good sized silo built for ensiloing corn. A good method would be to divide off four nine acre fields on which to follow a four year rota-ton: Corn, grain, hay, pasture; and three 3-acre fields for soiling crops following a three year rotation: Corn, mixed grain, peas and oats to cut green; clover hay. The balance of the farm would be taken up with orchards, gardens, paddocks for pigs or cattle, roads, etc.—J. H. Grisdale, Agriculturist, O.E.F., Ottawa.

Every farmer should have Farm and Dairy coming to his home regularly.—T. A. Craig, Grenville Co. of this department.

## Hulless Barley, Sorghum

1. Is white hulless barley a good kind to sow on clay ground, that has spots of loam?

loam?

2. Is straw long or short, and does it yield better than other varieties?

3. Is sorghum or sugar cane better for feeding cows, pigs, etc., than corn?—B, H., Welland, Ont.

1 and 2. Would not recomend white hulless barley as a farm crop, the yield is small, the straw weak and the crop nerally speaking unsatisfactory. Try Mensury.

3. Sorghum or sugar cane, if sown 3. Sorghum or sugar cane, if sown in rows for soiling crop is a valuable feed, but is not in the writer's opinion and experience nearly equal to corn as a crop for feeding dairy cows. Do not think it is of much value for feeding to swine.—J. H. Grisdale.

## пессососососососососсесс CITY MILK SUPPLY

## Difference in Weight and Test

Farm and Dairy is in receipt of the

Farm and Dairy is in receipt of the fellowing letter from a Toronto cream shipper living at Brampton, Ont.
Editor Farm and Dairy? Many of the farmers in this district ship sweet cream to Toronto which is sold by test. The prevailing price now being about 34 cents a pound for the butter fat. The cream sent each month is settled for between the 10th and 15th of the following month and the dealers statement and basis of settlement is frequent and basis of settlement is frequent. following month and the dealers state-ment and basis of settlement is freq-quently many gallons below the cream sent by the farmers, while the test allowed runs from two to seven per cent. below the farmers' test, which is frequently made by churn and the Babcock tester. By taking up this question vigorously, I think Farm and Dairy and the farmers might be mut-ually benefitted. The shipping ticket ually benefitted. The shipping ticket rained in that can and if accepted

on each can gives the amount contained in that can and if accepted should be the basis of settlement, or the Express Co should be liable. Possibly one solution of the testing would be for the cream producers to appoint a tester who would take samples as the cream arrives at the station possible of the company of the sample of the company of the comp or have a city testing house the same or have a city testing house the same as a city weigh scale. Samples of milk as it arrives in the city could be tested, also samples from the deal-ers' delivery wagons. These might frequently show that the farmer is not always to blame for the poor quality of the milk.

of the milk.

In talking with other cream shippers, who send to large dairies, other than the one I send to, the experience seems to be much the same. For instance by sending 100 gallons of 25 per cent. cream the dealer will only pay us for about 94 gallons testing about 21 per cent.—Subscriber, Peel of the milk.

about 21 per cens.

Co., Ont.

We referred the letter to Mr. A. J.

Reynolds, secretary of the Toronto

Milk and Cream Producers' Associa
milk and Cream the following

reply:
Editor Farm and Dairy.—Concerning the matter complained of I have had no official information that any had no official information that any had no official information that any such treatment is general. Only recently I met a cream shipper who was sending cream to two death of the said he had been well used by the said he had been well used by the said he had been well used by the them, as the said he had been well used by the said the had been the said to them, as they accepted his own test and paid for the full quantity sent. Again I have been told of another dealer who paid the price agreed upon but the test was two or three per cent. below that made by the shipper—A. J. Raynolds, Sec. Toronto Milk and Cream Producers' Association.

Farm and Dairy would welcome dis-

Farm and Dairy would welcome dis-cussion on this matter. What have other cream shippers to say on this point? What has been your exper-ience? Have you been used squarely?



WINNIPEC

## No Politics in This

De Laval

Cream

parators

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LAVAL SEPARATOR

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## WE SUPPLY THESE MADE OF STEEL

Our Gustomers have found these Easier to Erect, Just as Durable, and FAR CHEAPER

> than the styles ordinarily used.

> > WRITE US FOR PRICES

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The Waterous Engine Works Co.

BRANTFORD ONT.

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Creamery Department

Butter Makers are invited to send contributions to this department, to ask questions on
matter relating to butter making and to suggest subjects for discussion. Address your
letters to the Creamery Department.

### Resessessessessessessesses Wash the Separator

James Stonehouse, Creamery Instruc-tor, Kingston, Ont.

In visiting patrons of creameries, I have found that there is a great tendency to not wash the separator. Some wash it once a day, some not that often. They claim that they cannot see any difference in the butter made from the cream when the separator is cared for in this manner. ator is cared for in this manner. Let them keep that butter for three months and then they would see a great difference. This practice of neg-lecting the separators is on the in-crease. Fifty per cent of farmers wives are neglecting to wash the sep-arator. Those practices must be wives are neglecting to wash the sep-arator. Those practices must be stopped as far as possible. Many clean women in other respects leave their separator in a filthy state be-cause the separator agent that had a difficult machine to clean said that it was not necessary to wash his mawas not necessary to wash his ma-chine. When one woman starts wash-ing her separator only once a day, her neighbors soon do the same thing. As a result of these practices, we are not getting as good cream from sep-arators to-day as we did 10 years ago.

All the filth and the slime in the All the filth and the slime in the milk is left in the soparator bowl. You may flush it out as much as you like, but all the slime and dirt is left there. The next time the milk is separated, many of the germs, that are sure to be growing there, will be taken out with the cream. When the separator is not we have the country of the separator is not we have the country less of course the separator has been less of course the separator has been

Reseaseseseseseseses frozen in the interval. You cannot rrozen in the interval. You cannot see these germs, but they are there just the same. Many of these germs grow most rapidly at a temperature of about 70 degrees, hence they find a favorable temperature in which to work when the unwashed separator is located in the stable.

All the tinware and the bowl of the separator should be taken to the house regularly each time it is used and thoroughly washed and scalded. The very best care should be taken to clean it well. One might just as well and better leave their milking utenand better leave their milking utensils unwashed as to neglect the separator. Any woman would be shocked at the idea of leaving her pails and other utensils unwashed, yet more damage is done to the cream in leaving the separator unwashed than in neglecting other utensils

## Why Danish Butter is Uniform and Good

A Scottish farmer, who has made a study of dairy conditions in Denmark, gives the following as the chief rea-sons why Danish butter is uniform

and good:
1. The cows receive roots all winter and thus the butter is soft and not hard and dry, as when fed on

hay and cakes alone.
2. The milk when The milk when it comes into the factory must be pasteurized to 185 degrees F. and by this means turnips and other flavors are got rid

the butter is put in and after washing the barrels are rubbed with salt. Thus the odor from the wood is to a large extent prevented and does

not flavor the outside of the butter.

The paper which lines the barrels is steeped in salt water for two days before use; also the churns, but-ter workers and cream tubs are coated with moist lime after the cream has been washed off. This is allow-ed to remain on for about ten min-utes, when it is washed off with boil-

utes, when it is waster.

All the barrels have printed on the outside, "Danish Butter" along with the registered number of the dairy it came from, so that if there were any complaints they could be traced right had been the butter came. back to the dairy the butter came

## **Brooklin Creamery Organized**

Messrs. Patterson & Campbell, of Brooklin, Ont., are to be congratu-lated upon the succes of their efforts during the past winter in organizing a creamery at Brooklin. When Mr. Patterson anounced some weeks ago to the farmers who would be the patrons of the prospective creamery, that he would have the creamery in opera-tion by the first of May, they honored tion by the first of May, they honored his word with a curious look as much as to say "We'll see." True to his word, Mr. Patterson had the creamery erected, machinery installed and everything ready to receive the cream by the date promised.

of.

3. The cream is cooled to about 64 degrees F, and a starter of lactic acid used. The cream is only kept for 24 hours. Thus it will be seen that when the starter is there and the cream only kept for a phorid, no bad flavors can rise.

4. The barrels the day before being used are steamed, and the inside receives a coating of moist lime, structors in the matter of producing and caring for their cream. With this particular the flavor of the flav

inspector for Eastern Ontario, Jos. Burgess of Woodstock who has in charge the work of the cow testing associations over Ontario, Mr. Newman of Lorneville, G. A. Gillespie of Peterboro and Chas. C. Nixon of Farm and Dairy to address the meet-

The prospects for the new creamery are bright indeed. The two young men at its head, Messrs. Patterson men at its head, Messis. Patterson and Campbell are deserving of much credit and it is up to the patrons of this new creamery and to the farmers in the vicinity to see that they are well supported.

## Cream Defined

Cream is simply an emulsion of fat in milk serum. We may have much, or less cream, from milk, but muca, or less cream, from misk, out we can only have so much fat from the same quantity of milk whether we get much cream or less. By cream-ing milk in the old fashioned way, we get a part of the fat out, sometimes more or sometimes less. By nature's method of creaming, the light part of the milk or fat comes to the top by the natural gravitation of the earth In coming up, it brings a part of the milk serum with it. In methods where this principle is used for creaming only, about three-quarters of the fat is recovered from the milk. Sometimes there is not one-half of it getthe out, especially in hot weather when the milk sours rapidly.

On the other hand, with the cream

separator, we get practically all of the fat out. We can have a rich cream or poor cream just as we like. —James Stonehouse, in an address at a creamery meeting in Brooklin, Ont.

This is the season of the year when the cream haulers and creamery managers require to exercise their back bone qualities by refusing to accept



HIS picture shows how one woman used her picket fence to dry the disks from her "bucket bowl" cream separator. She realized the need for using a separator and the work of thoroughly washing a half bushel of disks twice a day, but she did not know that the simple Sharples Dairy Tubular would have saved her that work and given better service, or she never would have let her husband buy a disk machine.

## Two Wrongs Don't Make a Right

"Bucket bowl" manufacturers are wrong, in the first place, in using wide mouth, squatty, "bucket bowls" fed through the top. That kind of bowl is not modern. They are wrong, again, in filling their bowls with disks or other contraptions, for such parts do not make a steady, simple, light, easy to clean, durable bowl. These two



wrongs don't make "bucket bowl" separators desirable or

The only modern bowl is the light, slender, simple Dairy Tubular bowl, hung below its bearing and fed through the lower end. Our patents prevent imitation, so others still make "bucket bowls" out of date years ago.

Any one can build disk separators cheap, and just as good as the "old original" disk machine. Any dairyman who is willing to endure the inconveniences of a disk or other

"bucket bowl" machine, and insists on trying one, should buy one cheap -then he will not lose so much when he throws it away and replaces it with a Sharples Dairy Tubular.

Disgusted farmers now are throwing away "bucket bowl" machines, both new and old, by car loads and replacing them with Tubulars. Not a pleasant experience for them. Avoid it by getting a Tubular. The manufacture of Tubulars is one of Canada's leading industries. 1908 sales way ahead of 1907-out of sight of most, if not all, competitors combined. 1909

yet. Get catalog Toronto, Ont.

The Sharples Separator Co. Winnipeg, Man.

The simple, light

Sharples Dairy Tubular

bowl is easily washed clean in 3 minutes. A

few thrusts of the brush

does it. Better than

spending 15 to 30 minutes

washing a "bucket bowl."

by applying for their distr The Cheese In view of dairy season, the cheese in

tario for 1908 Publow, chie Dairymen's co. much to the of any we season's busin avoid them While the n men responded yet some 25 pe factories in a tion. They we they made the ments at once, against them.



After Shippers of Green Cheese
"Only a portion of the cheese factories in Eastern Ontario are addictories in Eastern Ontario are addicted to the practice of shipping green cheese," said Chief Dairy Instructor G. G. Poblow, at a meeting held in Peterboro recently, "but there are enough of them to have quite an influence on the average quality of the cheese shipped from Eastern Ontario Early last July, I visited 23 factories and shipped all their June Cheese and shipped all their June cheese and shipped all their June cheese is shipped soon after it is made there is buind to be a great shrinkage in it.
"We have tried to educate our factory owners not to ship green cheese.

tory owners not to ship green cheese. We are now considering the advisa-We are now considering the advisability of reporting factories that make a practice of actories that make a practice of the factories that have been adverted by our cheese. We have he may be the touble over the shipping of received the control of the control of

## Uniformity in Cheese

In order that there may be a greater uniformity in the cheese manufactured in the Cheese factories in Eastern Ontario, Chief Instructor, G. G. Publow, this year has furnished each of the 26 dairy instructors in Eastern Ontario, which is starter, in order that they may furnish the cheese makers in the risk of the cheese makers in the cheese makers and the cheese makers are the cheese makers and the cheese makers in the cheese makers in the cheese makers in the risk of the r In order that there may be a greater

abled to use a uniform start.

Cheese makers who have not received a starter, will be able to do so by applying to the dairy instructor for their district.

## The Cheese Industry in Eastern Ontario

In view of the re-opening of the In view of the re-opening of the dairy season, the following remarks on the cheese industry in Eastern Ontario for 1908, made by Mr. G. G. Publow, chief instructor, at the Dairymen's convention last winter are much to the point. By taking head much to the point. By taking head of any weak points in last ceason's business we should be able avoid them this year :

to avoid them this year:
While the majority of the factorymen responded readily to the recommen dations made by the instructors,
yet some 55 persisted in keeping their
factories in a very unsanitary condition. They were informed that unless
they made the necessary improvements at one, action would be taken
ments at one, action would be taken
against them. I am pleased to re-

IOc. The latest success. Black Watch The big black plug chewing tobacco.

port that we obtained the conditions Cheese Department

Makers are invited to send-contributions to the contribution of the cheese factories of the contributions to the cheese factories in Eastern Ontario are addicted to the cheese factories in Eastern Ontario are addicted to the cheese, and Chief Dairy Instructor Cheese Che

LACK COOL-CURING FACILITIES

LACK COOLCURING FACILITIES

With the exception of one or two districts, the majority of the factories are as the but may be a condition as far as the but may be a condition as far as the but may be a condition of the cheese. Only 40 discontinuous conditions of the condition of the cheese of the condition of the where there are no facilities for con-trolling the temperature, heavy losses are often sustained through the de-terioration and, shrinked, and to-sides there is not the independence of market conditions that is possessed by factories equipped with cool-cur-ing rooms. The lack of these condi-tions is often responsible for the ship-ping of cheese so close to the hoops. WHEY BUTTER

Some 63 factories manufactured butter from whey, as compared with 14 last season. The yield showed a variation of from 3 to 8 lbs. a ton, the variation of from 3 to 5 lbs, a ton, the increased yield being obtained when the milk was received in an over-ripe condition and was being delivered every other day. While it is evident that with proper facilities and care in the manufacture, good butter for inmediate use can be made, yet I am still of the opinion, that where the milk is delivered to the factories in a cool sweet condition and skilfully min is delivered to the lactories in a cool sweet condition and skilfully handled in the manufacture, it will not pay for factories to adopt the practice unless the output is large.

The defects that were most common in the defective these were, openness as make, coasseness of texture, and make, coasseness of texture, and the defective these words and the season was the companies of the season was the season with the season was the season with the season was the season was the season was the season with the season was the season with the season was the season with the season was the season was the season was the season with the season was the sea PREVALENT DEFEOTS diplomas from any of our dairy schools. I would strongly recommend the cheese and butter makers to take the cheese and butter makers to take at least a short term in one of that dairy schools each year, and thus take advantage of the opportunities afforded by the Department of Agriculture, of getting a knowledge of the scientific principles of dairying. It is so essential that they should be possessed of this information to enable them; to deal successfully with the dairy problems with which they are being continually confronted.

ontinually confronted.

I would like to express my apprecia I would like to express my apprecia-tion of the manner in which the ine-structors performed the duties allotted to them. They put forth-their best-efficts to bring about improvements-in, their respective districts, and as a result, more substantial improves-ments that will tend to the upliftings ments that will tend to the upliftings. ments that will tend to the upitting of the duity industry were made in-1908 than in any previous year. The directors of the Dairymen's Associa-tion have at all times given their as-sistance to the instructors and myself-in our efforts to improve the quality; of our dairy products and the conditions surrounding their manufacture. BETTER MILK DELIVERED

The quality of the milk delivered to The quality of the milk delivered to the cheese factories showed a marked improvement over that of the previous year. As a result of dairy education, the patrons are taking a more intelligent view of the principals involved in the production and care of milk, and we have every confidence that the improvement will be more marked during the coming season.

## FEWER PATRONS

The number of patrons delivering milk to the cheese factories last year was 36,801, which is some 1,700 less than in 1907. This decrease is largely to the fact that many of the patrons found it necessary to dispose of their herds in 1907 on account of the account of the sandy o scarcity of fodder.

(Concluded next week.)

## I AM FOR **CHEESE-MAKERS**

That desire to be up to date. A trial of our "ACME" ink made specially for stendiling or lettering of any kind, will convince you of its merits. There is nothing in the market to equal it. We guaranter to equal it. We guaranter to be ready for immediate use in because in the convention of the will be proposed to be the convention of the will it close one guamay. A combine unit is easy of the

A complete outfit, a can of ink, genuine stencil brush, cup, etc.; mailed to your address for \$1.00; also instructions (worth price ask-ed) how to brand or stencil pro-

## F. W. BRENTON & SON CHEESE EXPORTERS

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## LAND for SETTLEMEN

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

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

DONALD, SUTHERLAND, Director of Colonization, Toron HON. JAMES S. DUFF,

Minister of Agriculture WE SELL ALL KINDS OF

## Dairy Supplies and Machinery

and make a specialty of installing Cheese and Butter Plants

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WEAR

PETERBORO - - ONTARIO

## PURPLE SEA GREEN AND PURPLE SLATE

awandant form for him as an all the charged from solid rock-split into SOLID ROCK dark NOT WEAR OUT it can't burn, it was, crack lear or was a solid for the rock of the rock

# THE BAI

IS SUCCESFULLY USED IN MANY OF THE LARGEST CHEESE FACTORIES IN CANADA

When buying a Curd Agitator buy one that has no weak spots. The Baird Agitator has no weak spots but it has many strong points that are not found in any other Agitator.

The Drive Gears are so constructed that they may be fitted to vats of different lengths, which change might be necessary when replacing your old vats with new ones.

The Frame is neat and strong, being made of 1‡ in. pipe. There re no unnecessary bolts to become loose to cause extra attention.

The Driving Jack is made in a manner that will permit the paddles in any vat being thrown out of gear.

The Paddles work in every part of the vat which assists in giving smooth even texture to the cheese.

There are many other good points about this Agitator that you should know. Write at once for information to—

WM. BAIRD, Woodstock, Ont., Manufacturer

WHITE & GILLESPIE, Peterboro, Ont., Agent for East of Toronto It is desirable to mention the name of this publication when writing to adver-





DURE religion, as taught by Jesus Christ, is a life, a growth, a divine spirit within, coming out in love and sympathy and ..elpfulness to our fellow-men. Dr. W. H. Thomas.



## Sowing Seeds in Danny By Nellie L. McCluug

(Continued from last week)

THERE! I guess there can be no kick about that, Pearl thought to herself when Bugsey finished, and the applause rang out loud and

Pearlie had forgotten to tell Bugsey to come down when he was done and so he stood irresolute, as the ap grew more and more deafe Pearl beckoned and waved and

ing. Pearl beckoned and wavec at last got him safely landed, when Mrs. White announced that to-day was Taffy Day, ow-ing to Miss Barner's kindness, Bugsey's cup of happiness was full. Miss Barner said she had an extra big piece for the young-ost member. Master Danny est member, Master Danny Watson. Pearlie had not allow ed any person to mention taffy to him because Danny could not bear to be disappointed.

But there were no disappointments that day. Taffy enough for every one, amber-colored taffy slabs with nuts in it, cream taffy inluscious nuggets, curly twists of brown and yellow taffy. Oh, look, there's another plateful! and it's coming this way. "Have some more, Danny. Oh, take a bigger piece, there's lots of." Was it a dream?

When the last little band of Hoper had left the vestry, Mary Barner sat alone with her thoughts, looking with unseeing thoughts, looking with unseeing eyes at the red and silver mottoes on the wall. Pledge cards which the children had signed were gaily strung together with ribbons across the wall behind her. She was thinking of the little words when her interest.

little people who had just gone-how would it be with them in years come? — they were so sweet d pure and lovely now. Unand pure and ously she bowed her head her hands, and a cry quivered from her heart. The yellow sunlight made a ripple of golden water on the wall behind her and threw a wavering radiance over her soft brown hair.

It was at that moment that the Rev. Hugh Grantley, the new Presby-terian Minister, opened the vestry

CHAPTER V. The Relict of the Late McGuire.
Close beside the Watson estate with
its strangely shaped dwelling stood
another small house, which was the
earthly abode of one Mrs. McGuire also of Irish extraction, who had been also of trism extraction, who had been a widow for forty years. Mrs. McGuire was a tall, raw-boned angular woman with piercing black eyes and a firm forbidding jaw. One look at Mrs. McGuire usually made a book agent forget the name of his

book. When she shut her mouth, no book. When she shut her mouth, no lips were visible; her upturned nose seemed seriously to contemplate running up under her sun bonnet to escape from this wicked world with all its troubling, and especially from John Watson, his wife and his family of nine. ily of nine.

One fruitful cause of dispute be-tween Mrs. McGuire and the Watsons was the boundary line between the garments

that ever left Ireland came in for a Watson family to do the same brief but pungent notice.

brief but pungent notice.

John stood thoughtfully rubbing his chin, and when she stopped, not from lack of words, but from lack of breath, he slowly remarked:

"Mistress McGuire, yer a lady."

"Yer a liar!" she snapped back, with a still more eloquent burst of in-

vectives

John lighted his pipe with great deliberation, and when it was draw-ing nicely he took it from his mouth and said, more to himself than to her:

"Stay where ye are, Pat McGuire. It may be hot where ye are, but it would be hotter for ye if ye were here, and ye'd jist have the throuble o' movin." Stay, where we are Pat, Stay, where we are Pat, e are." He walked away o' movin. Stay, where we are a say, wherever ye are." He walked away leaving Mrs. McGuire with the un-comfortable feeling that he had in some way got the best of her. The Watsons had planted their po-

tatoes beside the fence, and did not dream of evil. But one morning in dream of evil. But one morning in the early autumn, the earliest little Watson who went out to get a basin of water out of the rain barrel, to wash the "sleeps" out of his eyes, dropped the basin in his astonish-ment, for the fence was gone—it was removed to Mrs. McGuire's woodpile, and the lady herself was industriously digging the potatoes.

Bugsey, for he was the early little bird, ran back into the house screaming:
"She's robbed us! She's robbed us!

and tuk our fence."

The Watson family gathered as quickly as a fire brigade at the sound of the gong, but in the scramble for

Watson family to do the same.

Mrs. Watson counselled peace.
John ate his breakfast in silence;
but the young Watsons, and even
Pearlie, thirsted for revenge. Bugsey
Watson forgot his Band of Hope
teaching of returning good for evil,
and standing on the disputed territory, he planted his little bare legs
for anext and shouted, dancing up far apart and shouted, dancing up and down to the rhythm:

Chew tobacco, chew tobacco, Spit, spit, spit! Old McGuire, old McGuire,

Nit, nit, nit! Mrs. McGuire did occasionally draw comfort from an old clay pipe—but Bugsey's punishment was near. A long shadow fell upon him, and turning around he found himself face

turning around he round himsen takes to face with Mary Barner who stood spellbound, listening to her lately installed Band of Hoper!

Bugsey's downfall was complete!

He turned and ran down the road and round behind an elevator, where half an hour later Pear I found him shedding penitential tears, not alas! because he had sinned, but because he had been found out.

The maternal instinct was strong in

Pearlie Bugsey in tears was in need of consolation; Bugsey was always in need of admonition. So she combined

them:
"Don't cry, alannah . Maybe Miss
Barner didn't hear yez at all, at all.
Ladies like her do be thinking great
"boughts and never knowin' what's thoughts and never knowin' what's forninst them. Mrs. Francis never fornist them. Mrs. Francis nover know what y'er saying to her at the toime; ye could say 'chew tobacco, chew tobacco,' all ye liked before her; but what for did ye sass owld lady McGuire? Haven't I towld ye time out of mind that a soft

time out of mind that a soft answer turns away wrath, and forbye them madder than anything ye could say to them?"

Bugsey tearfully declared that he would never go to Band of Hope again. Taffy or no taffy, he could not bear to face her. "Go tell her Bugsey man," Pearlie urged. Tell her ye'r sorry. I wuldn't mind tellin' Miss Barner Anything. Even rearrie agent.

Miss Barner Anything. Even if I'd kitt a man and hid his corp, she's the very one I'd green with the man and hid his corp, she's the very one I'd with him into the river, she's that good and swate."

The subject of this doubtful compliment had come down so are that morning believing

compliment had come down so carly, that morning believing that Mrs. McGuire was confined to her bed with rheumatism. Seeing the object of her solicitude upand about, she would have returned without knowing what had happened; but Bursey's remarkable turn decided her that Mrs. McGuire was pulled to the morning that the seed of the fering from worse than a rheu-matic knee. She went into the little house and heard all about it.

When she went home a little later e found Robert Roblin Watson with resolute heart but hanging head, waiting for her on the back ste What passed between them neither step. them ever told, but in very few minutes Robert Roblin ran gaily minutes Robert Roblin ran gaily homeward, happy in heart, shriven of his sin, and with one little spot on his cheels which tingled with rapture. Better still, he went, like a man, and made his peace with Mrs. McGuire!

(Continued next week.)

...

Our flower seed and bulb premium offers are popular among the young people. Let them earn free seeds or bulbs, and give them a corner in the garden for their own. A choice of several options, for only one new subscription at \$1 a year.

Have you forgotten to renew subscription to Farm and Dairy?



The Vineland School, Ont. neat, attractive school, the result of hearty co-operation among trustees, teachers and pupils loaned Farm and Dairy by Ont. Dept. of Education Photo by Prof. H. L. Hutt, O.A.C., Guelpi

two estates. In the spring Mrs. Wat-son and the boys put up a fence of green poplar poles where they thought the fence should be, hoping that it might serve the double purpose of dividing the lots and be a social bar-rier between them and the reliet of the late McGuire. The reliet watched and waited and said not a word, but it was the ominous silence that comes before the hail.

before the hail.

Mrs. McGuire hated the Watson family collectively, but it was upon John Watson, the man of very few words, that she lavished the whole wealth of her South of Ireland hatred, for John Watson had on more than one occasion got the better of

One time when the boundary dispute was at its height, she had burst upon John as he went to his work in the morning, with a storm of farther working the storm of reaching and comprehensive epithets. She gave him the history of the Watson family, past, present and future—especially the future; every Watson

than others. Wee Tommy, who than others. Wee commy, who was a little heavier sleeper than the others, could find nothing to put on but one overshee and an old chest protector of his mother's, but he arrived at the front, nevertheless. Tommy was not the boy to desert his family was not the boy to desert his family and the state of for any minor consideration such

Mrs. McGuire leaned on her hoe and nonchalantly regarded the gathering forces. She had often thought of the scene, and her air of indifference was somewhat overdone.

The fence was on her ground, so it was, and so were two rows of the po-tatoes. She could do what she liked with her own so she could. She didn't ask them to plant potatoes on didn't ask them to plant potatoes on her ground. If they wanted to stand theer gawkin' at her, they wur wel-come. She always did like comp'ny; but she was afraid the childer would catch cowld, they were dressed so loight in the season. She picked up the last pailful as she spoke, and re-tired into her own house, leaving the

FOUNTAIN

ne new subscripti Dairy. These per to give satisfaction

Our S

May 13, 1

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the child and nized by educ is correlate Surveying the ed to mark of buys seeds, a bookkeeping. checks, collect deposit slips i

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It cultivates the beauty about the lustrate this bette Like most Americ ly populated port given over to di-cans. It is to our tenths of the hor whether in the cou-surrounded by fil changes the hous Cleveland more t children, under th centive, have each school or at hom transformed. Ins transformed. Ins streets, they turn bowers and their b In the third place

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teaches practical a plants a love of ru child drinks in the

is almost educated.

A 14 kt. Cold For given to any person

## Our School Gardens

Herbert C. Ward

(Concluded from loat week.)

(Concluded from loat week.)

The value of the school garden to
the child and to the community in
which he lives has long been recognized by educators. In the first place,
it is correlated with his school work.

Conveying the plots, accurate measwhich he lives has long been recognized by educators. In the first place, the transfording recognized and the product of the country clean—and will do so if our the rights of ownership. He works hard for what he raises, and respects hard for what he raises, an

stands that the tilling of the soil is "the most healthful, the most useful, and the most noble occupation of

In the fourth place, school garden-ing is an education in honor. The lit-tle gardener realizes for the first time

comes. We would not be behind Ruscomes. We would not be bening Russia and Austria in this respect. You can accomplish this nobly and thoroughly. For women are the natural supervisors of children and of their

become the craving of his nerves, nor his ideal of the every-day pleasures of life. A new dignity has come to agriculture, along with its economic strength and the farmer has a new horizon far back of that of his prairie and his mountains, which is more promising than the sky line of the city." . . .

It is a long time since we had any chat with the

accomplished thing. You can earn several valuable presents by working a few hourse for Farm and Dairy. Every

of subscription you secure for us, whether ay. thing.

be page to also.

Bellocation. See page to also.

Bellocation of book study, and through practical Nature work relieves power. This gives him pride and dignity to be achieved in no other way. This training in agriculture is an all-round development. The child garden is the parent of the home garden. The child garden is the parent of the home garden and beauty about the house. I cannot il.

Bellocation of Claudend in the United States. See force he knows it he is of value and becomes a man quick decisions. Bellocation of Claudend in the United States. thing.

A fine 14 K gold fountain pen will.

A fine 14 K gold fountain pen wilberiphe given for only one new subscription; a set of 50 post cards, either Nature Study Cards, or a Trip Around Law Study Cards, or a Trip Around Cards, and the Cards,

Each subscription must be a new Each subscription must be a new one, and at \$1 a year. Write our Circulation Manager, Peterborough, Ont., for sample copies, and a copy of our new premium list which is being published.

... Our 95 piece dinner set, given away free, for a club of nine new yearly subscriptions to Farm and Dairy. Start a club at once.

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

Presents for Them All

we had any chat with the boys and girls, owing to lack of space in the Household Department. We would like to tell you wery briefly of a few of our special premiums for boys and girls.

The boy or girl who can arm something for himeself, always feels that he self, always feels that he saft, always feels that he self, always feels that he self,

Keeping the grass cut. Three animated mowers at work on the roadside, after having cleaned up everything inside the fence. Building too close to road. Cut loaned by Ontario Department of Education. See page of also.

for one new subscription, and we have scores of other equally attractive preiums.

FOR TWO NEW SUBSCRIPTIONS.

FOR TWO NEW SUBSCRIPTIONS.
You can have some chickens of your own, by doing a little work for us in your spare time, on your trip to the village. Send us two new subscriptions to Farm and Dairy, and we will send you a setting of eggs of any of the standard varieties.

A PURE BRED PIG. For a club of only seven new sub For a club of only seven new sub-scribers, we can send you, all for your own, a pure bred pig, of any stand-ard variety, with pedigree for regis-tration. Why not start opposition to tration. Why not start opposition to



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beauty about the street han by citing the lestrate this better than by citing the city of Cleveland, in the United States. Like most American cities, the densely populated portion of that city was given over to disorder, dirt and tin cans. It is to our disgrace that nime-tenhs of the houses of the poor, whether in the country or the city, are surrounded by filth. The garden changes the house into a home. In Cleveland more than fifty thousand children, under the school garden in-centre, have each a private garden at Like most American cities, the densely populated by populated in the state of a city was given over to disorder dirt and tinclass. It is to our discrept the state of a city, in the fashious tenths of the houses of that ninetenths of the houses of that include the state of a city, in the fashious tenths of the house into a home. In the country or the city are surrounded by filth. The garden changes the house into a home. In the city should have of the country but what ought to have of an part of an Education Society as a department of the Women's Clubs in every ment of the Country but and put the country but and the country but and the In the third place, the school garden teaches practical agriculture and implants a love of rural life. When the child drinks in the love of the child drinks and the child drinks the be educational among the town fathers, the school committee and the teachers. It could be begun immediately on a small scale rather than not at all. It is better that each pupil

School Grounds on St. Joseph's Island, Ont.

comes a man.

HOW TO ORGANIZE SCHOOL GARDENS

at all. It is better that each pupil should have a proprietary care over one bulb, whether it is an onion or a crocus, than not start right in.

If each board of county commissioners or each county newspaper could be induced to offer a prize for the best school garden, the work would be started. The superintendents of schools could also offer a prize for the best individual bed, thus stimulating best individual bed, thus timulating a Village in the provenent societies, farmers' clubs, and horticultural societies are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are the natural stimuli to these enacte the same are t

are the natural stimuli to these endeavors

To the women of the land eager to do something this call of the children

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May 13, 19

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Cousin Eva

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article, on "I will be read by

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woman who gru ready to laugh a If we wish to breathe deeply; the foot, thus l

the spine. Litt like these, which leave our kitcheviding our kitch viding our kitch lated) will great

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Made in Canada

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The best pro Shears that ar thing. The best s Best nickel 8 i ONE NEW SUB

CIRCULATION DE

THE BOYS

Dr. Helen McMurchie, Harris (Concluded from last week)

THE HOUSE

Now, as to the house itself. Anow, as to the house itself. The drawings which accompany this article are offered, not as models, but rather that they may suggest how it is pos-sible to secure comfort and convenience in the arrangement of the house. You will notice that the entrance

# The Upwaru

The Upward Look When they remembered God's promises and repented of their sins they conquered nation after nation; they prospered and grew mighty.

When thou goest out to battle against thine enemies and seest horses and chariots and a people more than thou, be not afraid of them; for the Lord thy God is with thee, which brought thee up out of the

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be. If we love God more than we do sin, we will be anxious to please Him in all things.

If the mercies we desire are not

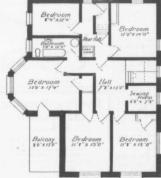
If the mercies we desire are not granted to us we should examine our lives and motives to see if the fault is not in us. God kept the Israel-ites wandering in the wilderness for forty years because they were not fit or ready to enter the promised land. Some, on account of their sits, were not allowed to enter it. God may be

straightway forget Him and fall into sin.
God, however, did keep His prom-ises to the Israelites. So He will keep His promises to us. All He requires is that we shall have faith and that we shall strive to do His will in all things.—I.H.N.

### Quaker Oats Griddle Cakes Try them today!

The family that hasn't eaten Quak-

Hundreds of thousands of packages



A Model House Plan

land of Egypt.—Deut. 20: 1.

Be strong and of a good courage,
fear not, nor be afraid of them; for
the Lord thy God, He it is that doth
go with thee; He will not fail thee
nor forsake thee.—Deut. 31: 6.

What glorious promises these were
that the Israelites had to comfort
and strengthen them. They needed
them. They were in a strange land,
surrounded by nations more numerous
and war-like than their own. They
knew that if they trusted in their
own might and prowess they would
be destroyed. They were surrounded
by dangers and troubles on every side.

Their greatest danger, however, was Their greatest danger, however, was that they would forget God and His promises. When they did forget God, their enemies descended on them and defeated them utterly and time after time put them under subjection.

might of mine hand hath gotten me this wealth."—Deut. 8:17.
And so it is with us. God is the same to-day as He was in the days of the Israelites. He is willing to help us to overcome our enemies and troubles, no matter how numerous and overwhelming they may seem. He has worned to trie the same than the same transfer has been as the sa promised to give us whatsoever we ask, but He expects us to keep His commandments. We must have faith, and we must be content to wait for and we must be content to wait for the fulfilment of His promises and not expect to have our petitions granted immediately and in just the way we may think best. We must strive to put sin out of our lives. Just as God turned away from the Israelites when they hid the stolen goods in their camp, so He will refuse to an-swer our prayers when we persist in some sin no matter how small it may

withholding the granting of our petitions for the same reason. It may be that were they granted we would straightway forget Him and fall into

er Oats Griddle cakes has a delightful surprise coming to it. Besides the delicious flavor, there is the pleasure of knowing you can eat all you want, and the more you eat the better for you. The best of all foods for anyone wanting more strength and vigor .

of Quaker Oats are consumed in Germany annually and almost all of it is eaten in the form of Quaker Oats griddle cakes. In the cereal restaurant of the Quaker Oats Company, located in one of the large cities, these griddle cakes are very popular.

Here's the best recipe for making

2 cups Quaker Oats (uncooked); 1½ cup flour; 1 teaspoonful salt; 1 tea-spoonful soda—dissolve in two table-spoonfuls hot water; 1 teaspoonful baking powder (mix in flour); 2½ cups sour milk or buttermilk; 2 eggs beaten lightly; 1 tablespoonful sugar;

beaten lightly; 1 tablespoonful sugar; 1 or 2 tablespoonfuls melted butter (according to richness of milk). PROCKSS: Soak Quaker Oats over night in milk. In the morning mix and sift flour, soda, sugar and saltadistic flour, soda, sugar and saltadist flour, soda, sugar and saltadist flour, soda, sugar and saltadistic of melted butter; add eggs beaten lightly—beat thoroughly and cook as graddle cakes—they make your mouth water for more.

at the side from a carriage way | land of Egypt .which sweeps in from the lane. A projecting portico shades the door. All the rooms downstairs open from the hall. There is no parlor, a room seldom used in many houses, but rath-ers big comfortable living room which may be made very charming by means of built-in book shelves and a big fire-place. The latter will be most suc-cessful when it is built of red brick or of the small round stones found in the fields, set in mortar. It should be finished by a plain shelf. Off the dining room a veranda opens. This ms downstairs open from dining room a veranda opens. This is sheltered by being built under the roof of the house. In summer this veranda may be used as a dining-room. verands may be used as a dining-room. In the kitchen there is a large cup-board, the upper part consisting of shelves with glass doors, the lower part of drawers, bins and shelves. This takes the place of a pantry. An Institute worker who has tried this arrangement tells me that it is much more convenient than having a separmore convenient than having a separate pantry. The dumb waiter is in-disponsable. The sink may have end shelves which can be let up or down at pleasure. The wash-room opening off the shed is intended for the convenience of the men.

### THE SECOND FLOOR

The plan of the upstairs needs little explanation. A sewing room commends itself to the housewife for there she can shut in all the litter of sewing. The balcony is most convenient in times of house-cleaning and also for airing clothes, etc., on all occasions. From the rear hall a stairs leads to the attic which may be finished or simply used as a store room

Coming to the basement we find the furnace placed as near the centre of the house as possible for economy in heating. Owing to the compact nature of this house it would be necessary to have the furnace and vegetable cellar separated by a heavy wall in order that the latter cellar might not he too warm.

Our 95 piece dinner set, given away free, for a club of nine new yearly subscriptions to Farm and Dairy. Start a club at once.



"Cousin Eva's" very appropriate article, on "How to Keep Going" will be read by many right thankfully. If we can follow out the instructions she gives us we will be all right. We are not old until we think ourselves old.

She is a little too severe on her sisters though, in that paragraph relating to aches and pains. Why depending to aches and pains. Why depending to aches and pains. Why depending to the service of the ser

ready to laugh at a good joke.

If we wish to keep young we must
breathe deeply; stand on the ball of
the foot, thus lifting the weight off
the spine. Little physical exercises
like these, which we do not need
to leave our kitchen to perform, (providing our kitchen is properly ventilated) will greatly assist in the
trion of that pertinent question Frotion of that pertinent question, How to Keep Young.—"Mother."

THE BOYS ON THE FARM

Why not give the boys on our arms a chance? Is it any wonder hat farmer's boys are considered earned. A good wash for inflamed eyes is made of one pint boiling water, one Molly coddles?". A town boy has chance to get out and depend on half teaspoon boracic acid powder, and a chance to get out and depend on

brighten

local S-W. agent for facts and figures about SHERWIN-WILLIAMS PAINTS AND VARNISHES Made in Canada THE SHERMIN-WILLIAMS CO. Montreal Toronto Winnipe,

bimself, and steps along with that independent awing, while the farmers' by it aught to let father lead.

"Cousin Eva's" very appropriate article, on "How to Keep Geing" will be read by many right thankfully. If we can follow out the instructions she gives us we will be lar light. When the state is a very we are not old until we think our selves old.

"If we can follow out the instructions she gives us we will be all right. We are not old until we think our selves old.

"If we can follow out the instructions she gives us we will be all right. The selection of the subject? The question of keep internal read of the subject? The question of the subject? The question of the subject of the subject? The question of the subject of the subject? The question of the subject of the subject? The question of the subject? The question of the subject of the subject? The question of the su

VACATIONS ON THE FARM

Sometimes the wife may think that Sometimes the wife may think that they cannot afford the price for a trip, but they can surely afford a horse and rig, and drive to a pretty lake early some bright morning, and spend the whole day in solid enjoy-

I have had some of my most enjoyable holidays at just such a place. Occasionally about dozen meighbors would got together and have the use of small boats, and the proposed would forget for one day would forget for one day that have had any care in this world. I sure they all come home feeling better for this day out, and anxiously looking forward to the next such a treat.—"The Doctor's Wife." I have had some of my most enjoy-

A burn can be relieved with com-mon baking soda (dry) if applied at

Before you invest in paint or varnish, investigate and find out which will last the long-

est, look the best and

prove the most satisfactory all 'round. Ask the

Four eggs, 1 cup sugar, 5 table spoons cold water, 1 cup flour, 4 teaspoons baking powder.

SNOW PUDDING

One-fourth box of gelatine, % cup cold water, 1 cup boiling water, 1 cup boiling water, 1 cup sugar, % cup lemon juice, whites of 3 cugss. Soak the gelatine in the cold water 30 minutes or until soft. Add boiling, water, sugar and lemon juice and stir until the sugar is dissolved. Strain into a large bowl and set aside the sugar is dissolved. If a cidulated gelatine is used, the monon juice may be omitted. But a few monon juice may be omitted. But a few monon juice may be omitted. But a few monon juice may be omitted to stiffen, and who the gelatine begins to stiffen, and who the gelatine begins to stiffen, and the sugar and beat all together until very light; pour into a pretty glass dish mod it. If the whites of the eggs are added to the gelatine before it begins to stiff, more times will be required. the gelatin before it becomes cold or stiff, more times will be required for the beating; 8 or 10 minutes should be sufficient. Make a custard of the following and serve with the pudding: Yolks of 3 eggs, 3 table-spoon sugar, ½ teaspoon salt, 2 cups hot milk, ½ teaspoon vanilla.

STRAWBERRY WHIP

One quart strawberries, whites 4 eggs, sugar. Mash the berries fine and sweeten to taste, add the beaten whites, beat again and set on ice. Serve very cold with cream.

CURRANT BREAD SAUCE

CURRANT BERAD SAUCE
Stew % cup cleaned and dried currants 15 minutes in water to cover,
then add 1 tablesp butter, a very
little sait and pepper, % teasp cloves,
and two heaping tablesp stale bread
crumbs. Simmer 15 minutes longer,
and just before serving add % cup
cider.

PEACH OMELET

Of the sweet omelets this is perhaps the best, although an orange omelet made in the same way is excellent. Beat the yolks of 4 eggs and one tablespoonful of sugar until it is creamy and light yellow; add a tablespoonful of lemon-juice slowly, stirring it carefully, a little salt and a little graded lemon rind. Whip the egg-whites very stiff and fold lightly into the yolk mixture. Have a heap-into the yolk mixture have a heap-into the yolk mixture. Have a heap-into the yolk mixture with a fortied in the mixture and there with a fortied in the own, spread with peaches slic-Of the sweet omelets this is perhaps and, when it is done and has dried in the oven, spread with peaches slic-ed very thin and sugared; fold over, sprinkle with sugar and serve at once. All fruit should be allowed to stand sliced in sugar to extract the juice, which should be poured around the omelet when serving it.—The New Idea. Marasian. Idea Magazine.

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The pointed yoke is The pointed yoke is always a pretty one. It allows of treat-ment of various sorts and its lines are very generally becoming. It can be used with equal success for the odd waist and for the entire gown and it can be worn either with a high waisted skirt or with a helt belt

FANCY YOKE BLOUSE 6241



E BLOUSE 6241

The blouse that can be made from tucked be made from tucked or other fancy material is the one in great demand just now and this model is especially designed is especially designed fancy which a pretty fancy which a pretty nullined.

Material required for medium size is

Material required for medium size is 3½ yds 18, ½ yd 21 or 24, or 1½, yds 32 or 34 in wide with ½ yd of all-over lace. The pattern is cut in the for a 32, 40, and 42 in st and will be mailed on receipt of 19.

GIRL'S DRESS 6291



One piece dresses are favorites for III this season. The state of the season of the se One piece

able materials are appropriate.
Quantity material required for medium size (8 yrs) is 4 yds 24, 3% yds 32 or 2½ yds 44 in wide.
The pattern is cut for girls of 4, 6.8 and nailed on receipt of 10

10 yrs, and will be

### MISSES' BOX COAT 6294



OX COAT 6294

The half fitting coat in box style is very becoming to young girls and to be very much worn throughout the season. This one is simple and youthful, is cut on admirable lines and is equally well adapted to the suit and the general wrap.

Material resulved.

Material required for 16 yr size is 4 yds 27, 2% yds 44 or 2¼ yds 52 in wide. The pattern is cut for girls of 14 and 16 yrs of age, and will be mailed to any ad-dress on receipt of 10 cts.

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NOVA SCOTIA

NOVA SCUTIA

ANTIGONISH CO, N. S.

ANTIGONISH—The weather continues cold; grass is not showing much. A number of farmers have to buy hay to carry their stock thory prices select are away up, except clover seed, which is reliting at a more reasonable rate than it has for a number of years. A large number of hores are changing hands and good prices are being paid, especially for ones of the low set draft type. scarce and it is almost impossible to buy good ones at any price.—Tom Brown.

JAMES RIVER.-Until the last few days JAMES RIVER.—Until the last few days it has been very cold for this time of year, We had everal snow storms the latter part of last month. Quite a number of farmers are short of hay, as stock took larger quantities to bring them through the cold weather. However, all time stock looks well. The frost is pretty much all out of the ground, and of ences was much hindered on that account. The roads are beginning to dry fairly well. The Farmers' association of Antigonish 

### OUEBEC

RICHMOND CO., OUE.

DANVILLE.—The weather still keeps cold with flurries of snow. The sugar season is over. The average make wa season is over. The average about two pounds to a tree. There is not much work done on the land yet owing to the cold wet weather. The creamery has the cold wet weather. The creamery has been running all winter. We expect the cheese factories to be doing business scon. Some farmers have joined the cow testing association and are keeping individual records of the cows in their herd. These farmers think it better to know by actual test the cows that are paying their board and giving a profit.—J. E. H.

### ONTARIO

ONTARIO
GRENVILLE Co., ONT.
CHARLESVILLE—Owing to the cold and backward spring quite a number of farmers are buying hay. As a consequence half of the cattle are going to come out on the grass very thin. All the cheese factories are in operation now. The one this season. Clever has suffered considerably on account of the many frosts that have been prevalent. Alfalfa is reported almost a failure. The following prices are being paid for farm produce at this point. Timothy hay, \$15 a. ton; clover point. Timothy hay, \$15 a. ton; clover green, \$15 c. to \$2. to \$2. to \$2. to \$2. to \$2. to \$3. to \$

skins, 16e a lb; hides, 8e a lb.—G. W. C.
DETHANY.—Fall wheat and clover came
through the winter well considering the
amount of growth which they had last
fall. Stock is in fair condition, but if
such had weather continues feed is going
to be insufficient, as is the case with a
few at present. The small number of hogs
kept and their rather poor quality is

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OUR FARMERS' CLUB principally due to the lack of and high price of feed. In regard to spring operations, nothing has been done on the fleids with the exception of small areas of light soil.—W. M.

HALIBURTON CO., ONT.

IRONDALE.—We are having a very late spring. No seeding has been done yet. The ground is covered with snow, and it is still snowing. It has been very cold and stormy for the past week. Stock does not look too bad, but feed is very scarce; has not been so scarce for years. Water is very plentiful. We need a cheese fac-tory. A cheese factory would be a great thing for this section.—J. P. H.

VICTORIA CO., ONT. DUNSPORD. — Very little reeding has been done. The fields are covered with water. Stock are yet in their winter stables. Feed is getting scarce. Cattle, sheep and lambs are doing well. Fall wheat and clover looks well.—T. R.

HARTLEY. — The horse market has slightly declined. A good horse, however, will bring a good price. There is a good demand for all kinds of cattle. Hogs have gone record breaking prices. In fact, demand for all finals of cattle. Hogs like gone record breaking prices. In fact, everything the farmer has to sell is bring; ing good prices. The farmer having a good home, a good wife, and the Farm and Dairy paper to read, ought to be the happiest man on earth.—W. M. H.

WENTWORTH CO, ONT.
KIRKWALL—This spring is one of the
coldest and most backward that we have
had for several years. At the present
time (May 5th) one night ulmost say
though an odd farmer has done a little
plowing. Fall wheat and clover are looking splendid, and if warm weather was
to come soon the prospects are good for
a try and though an occasional farmer
is buying hay and straw to last until the
grass comes. Grain of all kinds is selling WENTWORTH CO., ONT. is buying hay and straw to last until the grass comes. Grain of all kinds is selling very high. Wheat is \$1.15 a bush; peas, \$1.25 a bush. The best seed oats bring \$6c to \$6c a bush; feed oats, from \$6c to \$5c a bush, and feed corn about \$6c to \$6c a bush. Potatoes are becoming somewhat searce, and are selling at from \$6c to \$1 a bag—C. A. W.

WATERLOO CO., ONT. WATRILOO CO., ONT.

AYR.—Our backward spring will make seeding very late. Work had commenced on the land and a few had a little sown, when we were visited by a snow storm on April 29th. It was so bad that it almost blocked some of the roads. Some fields of winter wheat are rather hadly Killed out, mostly in small patches, where the saves and ice loid on it dwings those some out, mostly in small patches, where the snow and ice laid on it during those sun-shiny days the last of March. Some of the farmers are anxiously waiting for grass as fodder is getting scarce.—G. C. S. WELLINGTON CO., ONT.

ELORA.—The prospects for a successful seed time the prospects for a successful seed time to the successful seed time to the successful seed time to the successful seed to the successf here iost his barn with all its contents, including some 64 cattle, six horses, and a number of sheep, with all the equipment of a well ordered farm. Prices of grain, cattle, horses, etc., being high, the loss is enormous. Best cattle are selling well; not many left in the neighborhood. Hops. 87.30 this week, and if only a good spell of weather comes soon farm were seen the farmers more disappointed than they are at present.—0. W.

BRICE CO. ONT.

BRUCE CO., ONT.

WIASTON-We are still looking in vain for spring weather. Very few have gotten a plow into the ground as yet, and that only on sed. When it does not rain it freezes hard. More damage has been done to young clover since April 28th by frost than at any time the control of the

rate.—C. S.
MIDDLESEX CO., ONT.
APPIN. — Like the rest of Western Ontario, this locality has evidently added a new experience to those of the past spring. Six inches of snow, together with lightning, thunder and rain, have interrupted seeding operations. Seeding had just begun and had scarcely become general. Frequent heavy frosts, while beneficial to the large area of spring plowed land, have kept the surface wet and dead on most clay fields and has hindered a good tilth

## LIVE HOGS

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PETERBOROUGH,

HULL.

the fields where operations have been on the fields where operations have been begun. Farmers are wondering what the effect of the snowstorm will be. Will it be colder and yet more backward, or is it a forerunner of early fine weather? Wheat, which had been affected by frosts of Wheat, which had been affected by frosts of the recent weeks appears to have been freshened by the snow. In a few cases feed supplies have been exhausted and hay is being bought at from \$8 to \$10 a ton according to quality. Mill feeds are costing \$25 for bran and shorts: orm \$27 a ton; barley, \$56 a ton for feed; oats, the about for feed and 50 for seed. —C. 4. M.

We are informed by the management of the new farm and stock paper that is shortly to be started in Canada, that the policy of the publication will be to pre-

sent each week matter of practical value to farmers and stockmen. Original cles only will find place in its pages. cles only will find place in its pages. The best recognized authorities will be its contributors. It will be under editorial management which thoroughly under-stands making a paper of maximum value to farmers. Inquiries on all live farm top-teril be answered free of charge for sub-scribers. All the agricultural news each week will be presented in condensed form. A superlative feature will be the reports and statistics of grain and live stock prepared by the paper's own special by organized set of pure bred live stock and the general farmer will find it worth dollars to them in their everyday work.

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May 13, MAR

Toronto, Mon cold weather of ginning of May ginning of Maj ness generally, did not take pl of the past few ness, and whole increase in orde apprehension in the cold spell of the outcome of outcome of in the West, ness somewhat. ful, and banker ing. Call loans ing. Call loans and discounts as erable money is tate at 5½ to 6 latter figure.

The wheat may of the season la cold at Chicago this advance was cold at Chicago this advance was considered by the cold of May lat, sho growing crop of the Chicago of the Chicago of the Chicago of the SiJF2, on Thus week was the July of the SiJF2, on Thus a price of about in the Prairie P ure that has rule are reports that in the United S than real. Americash wheat has blators, and is bel Moreover, it is shought in large a they are holding, ize a sufficient them out, But wheat situation i those who believe pay much higher quires before the unsatisfactory cor ducer is not obta tage from presen out of his hands ly of the Ontario ket here is very in largely got beyond it is reported th bought wheat dur bush, and another Dealers here quote to \$1.27 at outsic farmers' market ly nominal at \$1.1 81.10 to \$1.15 a bu The oat market change in prices are quoted at Mo

are quoted at Mc Dealers here quote 65% outside, and as to quality. Ma at Montreal at 66c at 59% to 60c. On ket there is very l offering. Oats sell offering. Oats sell

The cold weather

At Spr THURSI

36 Hig 35 Ch

This is my a the breed. All as of tested cows. a stead," world's Netherland, Pose "Ormsby King S pion, etc., the record cows of terms cash, cent., interest per Farm one mi and Toronto, mi stop day of sale 15th, sent on ap

A. C. HALLMA

## MARKET REVIEW AND FORECAST

Toronto, Monday, May 10, 1999. — The cold reacher of the end of April and becold reacher of the end of April and becold reacher of the end of April and becold reacher of the past few days has stimulated business, and wholesalers report considerable moses, and wholesalers report considerable the cold spell on seeding operations, and the outcome of this season's crop, especially in the West, which has affected business somewhat. Money continues plentiness somewhat who were considerable money is being put into real eache can be considerable money is being put into real eache as 5% to 6 per cent, notably at the latter figure.

the outcome of this season's crop, especially in the West, which has affected business somewhat. Money continues plential, and bankers are more accommodatial, and bankers are more accommodated and discounts at outline at 4 per cent, and the season of the season late week you have a season late week when May wheat sold at Chicago at \$1.29\forally. The wheat market touched the top price of the season last week when May wheat sold at Chicago at \$1.29\forally. The cause of this advance was the stronger markets in Europe, the short supply of each wheat, of May lat, showing a condition report of \$1.5\forally, and \$1.7\forally. The winning market have for the chicago market at the end of they are all the stronger markets at the stronger of \$1.5\forally, and \$1.7\forally. The Winninger market have shown in the chicago market at the end of they are the stronger of \$1.5\forally, and \$1.7\forally, \$1.25\forally, and \$1.7\forally, \$1.25\forally, and \$1.7\forally, \$1.25\forally, and \$1.7\forally, \$1.25\forally, \$1.50\forally, \$1.50\forall ace here is very irregular and prices have largely got beyond a selling basis, though it is reported that one Ontario miller bought whest during the week at \$1.35 a bush, and another asle was made at \$1.32. Dealers here quote Ontario wheat at \$1.32. to \$1.37 at outside points. On Toronto to \$1.27 at outside points. On Toronto farmers' market wheat prices are largely nominal at \$1.21 to \$1.23 for fall, and \$1.10 to \$1.15 a bush for goose.

\$1.0 to \$1.15 a bush for goose.

Charge Grain, with little thange in prices reported. Ontario oats are quoted at Montreal at 51c to \$4%.c. and could be considered to the country of the c FEEDS

cold weather has increased the de-for bran, which rules firm and

The strong. At Montreal, Manitoba bran is doed at \$22 to \$23, and shorts at \$24 to \$25, and shorts at \$24 to \$25, and shorts at \$24 to \$24, and shorts at \$25 to \$24, and shorts at \$25 to \$25, and shorts at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 a ton in car lots at \$25 to \$25 to \$25 a ton in car lots at \$25 to \$25 t

The egg market shows little change. Receipts have been put into large, but as many have been put into a many have not been an arrected. Prices prices have not been affected. Prices prints were reported a little easier during the week, though prices ruled at 16½ to 10 were a formation of Toronto and Ire to 17½ to 10 were sent at 100 memory and the contract of the prices of the p

MAPLE PRODUCTS There is no change in prices for maple syrup. It sells here in a jobbing way at 95c to 81 a gal.

DAIRY PRODUCTS

DAIRY PRODUCTS

The demand for choice choese this week has been greater than could be supplied, and consquently prices at local rates took a decided jump upward weather has influenced the make considerably, and though the April make was larger than a year ago, it was not as larger as was expected. Cows will not be

able to get on grass as soon as expected, and this will delay increased production. At local markets at end of the week control of the contro

HORSE MARKET

UNION STOCK YARDS PRICES

UNION STOCK YARDS PRICES
West Toronto, Monday, May 10 — Staty,
seven cars was the run at the Union Stock
Yards, West Toronto, this morning, consisting of 1851 cattle, 28 sheep, 26 hogs and
26 catives. Trans of exporters was from
\$4.50 to \$4.73 rand in all lines was brisk,
55 to \$4.73 rand in all lines was brisk,
55 to \$4.75 rand in all lines was brisk,
55 to \$4.75 rand in all lines was brisk,
55 to \$4.75 rand in all lines was brisk,
55 to \$4.75 rand in all lines was from
\$4.50 to \$4.75 rand in all lines was brisk,
55 to \$4.75 rand in all lines was brisk,
55 to \$4.75 rand in all lines was from
\$5.50. The general price, however,
\$5.50. Th

LIVE STOCK

this market.—E. A. F.
LIVE STOCK
Receipts at the live stock markets during the week have ruded light, and prices have ruled firm with export cattle at the highest point of the season. There was not much improvement in the general recent weeks cattle offering over those of continuance of present cattle offering over those of not he market. General trade is good, and the outlook at present is for a continuance of present conditionation of present conditionations of the continuance of present conditionations of the continuance of present conditionations of the continuance of present conditionations of the conditionation of the condition of the conditionation of the condition of the conditionation of

weight.

There is not much change in the butchers' cattle market over a week ago. Good well finished cattle are in demand. Good well are good well as the second of the cattle at \$4.00 to \$4.75; common at \$4 to \$4.00 to \$4.00; and butchers' cows at \$4 to \$4.00 to \$4.00; and butchers' cows at \$4 to \$4.00 to \$4.00; and butchers' cows at \$4 to \$4.00 to \$4.00; and butchers' cows at \$4 to \$4.00 to \$4.00; and butchers' cows at \$4 to \$4.00 to \$4.00; and for feeding steers running from 500 to 1100 lbs each, is fair, but there is not much inquiry for light stockers. The demand of feeding steers running from 500 to 1100 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, 500 to 500 lbs each, \$4.75; to \$5.05; feeders, \$5.00 lbs each, \$4.75; to \$5.00; feeders, \$5.00 lbs each, \$4.75; to \$5.00; feeders, \$5.00 lbs each, \$5.00; feeders, \$5.00 lbs each, \$5.00; feeders, \$

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FARM AND DAIRY

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and watered, were quoted on the market here at \$7.50 a owt and \$7.55 fa.b. at country points. Prices in the country have been somewhat irregular, but \$7.25 is about the figure that packers are willing to pay, though they have to raise this limit sometimes to get hogs. The this limit sometimes to get hogs. The Third are all the sometimes to get high also. On Thursday as high as 7.50 big high also. Chicago for hogs. At Buffalo prices are higher still, the latest quotations being higher still, the latest quotations being

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35 Oholoc Tamworth Swine of Best British Blood.
This is my second public offering and nichudes some of the richest blood of the breed. All stock descendants of Official Record breeding, including a number of the richest of the breed. All stock descendants of Official Record breeding, including a number clearly stock of the property of the property of the richest of the second state of the second like is not been considered. Agricultural of the property of th A. C. HALLMAN, Prop. \*\* ... Breslau, Ont., Waterloo Co. It is desirable to mention the name of this publication when writing to advertisers

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Morewood

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## MISCELLANEOUS

Four bull calves, reds and roans, from milking strains, 10 to 16 months. Females

all ages. Prices to suit all. E.5-16-09 T. W. McCamus, Baillieboro, Ont.

BERKSHIRES AND TAMWORTHS

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

J. W. TODD,

Maple Leaf Stock Farm Corinth. Ont.

### PINE GROVE BERKSHIRES



For Sale are my winners at the late Winter Fair, Guelph. Sows bred and ready to breed; boars fit for service. Younger ones of both sexes. Guarasteed as represented. Write your wants.

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



AYRSHIRE

An October 30, '08; dam's record in C. R. of P., 9,521 lbs. milk and 382 lbs. fat, aver aging 4 per cent. Also three March, 1909, calves, dam of one having record of 7,525 lbs. milk and 322 lbs. fat as a two year

W. W. BALLANTYNE Stratford, Ont.

Long Distance 'Phone.

ored at abattor, 37.30 a cwt.

MONTREAL HOG MARKET

Montreal, Saturday, May 6th.—The market for live hogs this week has not been on firm, and slightly lower prices have been accepted in some instances. Receipts have been facility heavy, meeting with a fair demand at prices ranging with a fair demand at prices ranging present the state of the

ed off cars.

Dressed hogs are quoted firm at \$11.55 to \$11.50 a cwt for fresh killed abattoir stock. Higher prices are retarding sales, but dealers cannot afford to sell the goods at less money owing to the high cost, and are complaining that there is no money in the high cost. The price of the complaining that there is no money to the complaining that the compla

EXPORT BUTTER AND CHEESE EXPORT BUTTER AND CHEESE Montreal. Startarday, May 8th, 1990-The export demand for cheese this week was forders came in for more than two or three times the quantity available, and an advance in prices inmediately resulted. The opening markets of the week on day, 115% and 115% were the ruling prices paid, whilst on Thursday and Friday the great bulk of the cheese in the country was sold at prices ranging from of nearly one cent a b from the previous 12c to 122c a lb. representing an advance of nearly one cent a lb. from the previous week. It looks now as if the advance has been overdone, as the response to the the advance in prices here has been very small today. It is very difficult to see how such high prices can be maintained in the face of the steadily increasing receipts that we may expect from now on. The demant this week was for

Offers a GREAT BULL. He carries in a close degree the blood lines of Butter Boy Helena Pieterije, the now famous 3 three old world's champion helfer. See April 15th's Holstein Register for her out and records. Her dam was bred here. Write for particulars.

A. D. FOSTER, Bloomfield, Ont. one at Haight Bros., Picton Central.

## AYRSHIRES

AYRMONT FARM, SHEFFORD CO., QUE. Thoroughbred young Ayrshire bulls for ale; copies of pedigrees and prices on an

J. DAVIDSON

O. Drawer 2300. Montreal, Que. SPRINGHILL AYRSHIRES

Imported and home bred stock of a ages for sale. See our stock at the leading shows this fall. Write for prices. ROBT, HUNTER & SONS
Maxville, Ont.
Setting

Long distance phone.

## BURNSIDE AYRSHIRES

Are in such demand I will make another important in a contract of the contract

STONEYCROFT STOCK FARM

Harold M. Morgan, prop., Ste. Anne de Bellsvue. Cholee young Ayrshire Bulls and belfers for sale. Yorkshire pigs from Imported Sires and Dams, February and March litters. Largest selection. High-est quality. Write for prices.

B 6-26-09 E. W. BJORKELAND, Manager

## HUME FARM AYRSHIRES

On hand young buils for service. Several very choice August, 1908, also helfers in cell, young cows, and cows any desired age. Family cows a specialty. Orders booked for Torkshire pigs, orders for importing Ayrehires solidated. Phone in residence. Hoards Santon. 6. T. S.

ALEX. HUME & CO., Monie P.O.

spring. While the price of cheese has been ad-

While the price of cheese has been advancing, the value of butter has been declining, and prices are down fully 5c on the week. At Cowansville and St. Hyacinthe to-day the butter offered sold at from 21c to 21% at 10, the latter figure ruling at Cowansville, where Nice was paid a week ago. Dealers here were generally prepared for a decline, which was inevitable in the face of the rapidly increasing receipts, and no outlet for goods other than the local trade. lower prices are generally expected, and next week's markets should go at less money. The price of butter must com-down to the level at which an export dedown to the level at which an export demand for it will come on. Current quotations in England to-day range from 20c to 2Lc. so that prices here must decline to 2Lc. so that prices here must decline a constant of the control of the GOSSIP

The exceptionally heavy winds of the last few weeks played havon with the last few weeks played havon with the of Ontario, in some places wrenching roofs entirely off; in others tearing loose the shingles, and causing considerable damage to the structure and contents. In many localities the gales were accompaniumly localities the gales were accompaniumly or some companium of the companium of the content of the companium of the content of the companium of the content of the content

87.50 to \$7.70 for mixed: mixed, \$7.50 to \$7.50

If any Farm and Dairy readers have suffered from the recent wind storms it would be well to write to the Metallic Roofing Co. Limited. of Toronto, giving them the size of the roof and ask for cost of replacing it. This firm is the old-est Metallic firm in Canada, and maker's of the well known "Eaglishes Steel

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

LUMBER FOR SALE—All kinds and sizes delivered on board cars at your nearest railway station. Farmers who intend building this season can save money. Write for prices to William Eldridge, Hepworth. Ont.

PURE BRED PIGS.—Not for sale, but to give away, in return for seven new year-ly subscriptions to Farm and Dairy. Write Circulation Department, Farm and Dairy, Peterboro, Ont.

WANTED:—A married man to do general farm work. Also single man. Must be able to milk.—W. W. Ballantyne, Strat-ford, Ont. Long distance 'phone.

WANTED.—Persons to grow mushrooms for us at home. Waste space in cellar, garden or farm can be made to yield \$15 to \$25 per week. Send for illustrated booklet and full particulars.—Montreal Supply Co., Montreal.

WANTED.—Situation with first class dairy man in Eastern Ontario, Dundas County preferred.—Box S, Farm and Dairy.

## PUBLIC SALE

# 50 Registered Holstein Cattle

Tuesday, May 25th, commencing at 12.30 p.m. sharp

## BROCKVILLE FAIR GROUNDS

6 cows with records over 20 lbs. Butter each.

Greatest bunch of A. R. O. Breeding ever offered by public sale in Canada

A daughter and g. daughter of Paul Betts Dekol as well as a sister to Francy 3rd will be sold, all without reserve. Catalogues now ready. Sale will be under cover.

TERMS—Cash, or 5 months time, bankable paper with interest at 6 per ent. All bids by mail should be sent to

Colonel B. V. KELLY, Syracuse, N.Y., Auctioneer,

T. R. BEALE, Athens, Ont., Clerk. GORDON H. MANHARD, Consignors

G. A. GILROY.

## **Breeders' Directory**

## SHEEP

## CATTLE

ABRAM EASTON, Appleby, Ont., Leleester sheep. Show ring and breeding stock for sale.

JAS. BEOG. ST. THOMAS, AVESTIES. Standard of this hord is go lbs. milk per day, No culls. epis go sheep. Block for sale at all time.

May 13, 10

HOLSTEIN

Farm and Dr of The Canad Association, a are readers of the the Association items of intere-for publication

HOLSTEIN-FRIE FOR

Belldina Schuill?

days of age, 152

Janettie (3871)

Jan

b) 4. W. Richards

me. end 6565 at

me. end 6565 at

me. end 6565 at

bb butter; milk 46

m. H. Manhard.

days Go Bentler

days Go Bentler

by F. J. Griffin

ays of a Servantic

system of the first of the first

by J. W. Richardso

system of the first

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system of the first

equivalent to 13.98 bs. Owned by Geo Queen Inka De Ko days of age, 11.61 days of age, 11.61 alent to 13.54 lbs a wned by Gordon E

Hulda Wayne Joh yrs 10 mos of age, equivalent to 13.01

equivalent to 13.61. Thirty day test, at 44.54 bis butter fast, 17 mirty day test, at 44.54 bis butter fast, 18.54 cm. 18.54 cm. 18.54 cm. 18.54 cm. 18.55 c

incess Mercena De 15 days of age, valent to 11.45 lb Owned by F. J.

Lady Treaton (7859) of age, 9.80 lbs brutter; mi y B. Mallory B. Bellev Maggie V. Bellev Ma

Annie Posch age, 8.83 lbs bu lbs butter; mi Pettit, Burgess hilde De Kol Di 18 days of age, ent to 10.28 lbs wheed by J. W. Ont.

Owned by J. W. Ont. one Calamity Pos inne Calamity Pos 19 days, 8.72 lbs but 17 lbs butter; mile orge Rice, Tillson y Aagrie De Kol 85 days of age, 8 alont to 10.08 lbs Owned by M. L.

dowlane Lassie (1

## 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 readers of the paper. Members of items of interest re-invited to send items of interest re-included breeders for publication in this column.

## HOLSTEIN-FRIESIAN OFFICIAL TESTS

HOLSTEIN-FRIESIAN OFFICIAL TESTS
FOR MARCH. 1999.

Belldina Schuilling (3163) at 8 yrs 11 mos 12 days of age, 16.17 bis butter fat, equivalent when the second of the seco

nt. Queen lnka De Kol (8987) at 1 yr 11 mos i days of age, 11.61 lbs butter fat, equi-alent to 13.54 lbs butter; milk 354.7 lbs. wned by Gordon H. Manhard, Manhard,

nt. Hulda Wayne Johanna Lass (7279) at 2 rs 10 mos of age, 11.15 lbs butter fat, quivalent to 13.01 lbs butter; milk 315.7

The state of the s

incess Mercena De Kol (8627) at 1 yr 11 15 days of age. 9.81 lbs butter fat, ralent to 11.45 lbs butter: milk 292.4 Owned by F. J. Griffin, Burgessville,

showing by F. J. Griffin, Burgeswille, Lady Trenton (785) at 2 yrs 11 mos 3 lays of age, 9,80 be butter fat a coursalent Vi. Mallory, Belleville, Ont. S. Owned Vi. Mallory, Belleville, Ont. S. Odays of age of age of age of a fat of the fat of the

m Annie Posch (7790) at 2 yrs 16
of ace, 835 lbs butter fat, equivalent
j lbs butter
E. Pettit, Burgesser 12, 2 lbs. Owned
thilde De Kol Dalsy (679) at 2 yrs
13 days of ace, 831 lbs butter fat,
leint to 10,20 lbs butter fat,
leint to 10,20 lbs butter fat,
leint to 10,20 lbs butter
One.

mos 23 days of age, 8.49 lbs butter fat, cunivalent to 9.59 lbs butter fat, lbs. More dby B. Mai Discussion of the control of



A Sire with Record Breeding on Both his Sire's and his Dam's Side

Brightest Canary No. 5786. Illustrated above, owned by Gordon Manhard, Leeds Co., Ont., has an enviable record. His dam, Canary Mercedes Brightest, made 22.396 lbs. butter in 7 days, 103.9 lbs. butter in 30 days. His sire's dam, Sadie Vale Concordia, made 35.64 lbs. butter in 7 days, 123.10 lbs. butter in 30 days. His dam made 25.161 lbs. butter in 7 days, and 102.5 lbs. butter in 30 days.—Advt.

Oneen Annie Posch (7790) at 2 yrs 16
as of age, 38 lbs butter fast, and the state of 1.32 lbs bu

dis, made 25.64 lbs, butter in 7 days, 125.10 lbs. butter in 30 days. His dam's dam made 25.161 lbs. butter in 7 days, and 102.5 lbs. butter in 30 days—Advt.

Artis, Laddie, Logan Bes. to R. E. Mc. Herrick to O. S. Shaw, Kinley, Que. McKenney, Logan Bros. to A. Berrick McKenney, Logan Bros. to A. Berrick Sir, Teake, Murye, Pure Milk Co. to Joseph Todd, Alix, Alia.

Barbetta Sir Teake, Murye, Pure Milk Co. to Joseph Deblow, Campbell Co. Logan Bros. to Berrick McKenney, Logan Bros. to A. Berrick Sir, Teake, Murye, Pure Milk Co. to Joseph Todd, Alix, Alia.

Gibson Boy, Paton, James Williams to E. Berrick McKenney, Logan Bros. to Marshheld, P.E. Bedgood to Samuel Black Prince Burke De Kol. Dr. L. de Black Prince Burke De Kol. Dr. L. de Logan Bros. to McKenney, Marsheld, Dr. Berrick, S. Grock, Ont. Bros. Bros. to McKelley, McKenney, McKelley, Logan Bros. to McKelley, Mc

# PLUS+Strength!

# It's built into EVERY Cockshutt Implement

-it pays to put it there-pays you and us too!

Plus-strength means strength to stand Made with 13 and 15 Discs harder usage than any farm-implement ought to have to stand-but DOES have to, sometimes.

You know what "careful" use the average "hired man" is apt to give any farm-implement! And the more

expensive the thing is, the You need such harder usage it is likely to get - on your farm or anystrength body else's. Now an ordinin farm-tools ary farm-implement lacks

plus-strength. It's built for careful handling-not for abuse. Wherefore it goes smash under stress-and always at the busiest time-when breakdowns cost most.

Of course it costs more to build plusstrength into a machine; but the buyer of a Cockshutt implement pays no more to get it.

Just as no Cocksbutt customer pays a cent of the cost of this advt., he doesn't pay for the surplus strength built into a Cockshutt tool.

Where the value Advertising is an investment that repays us in inof it comes in creased business - and

plus-strength is an investment that repays us in increased reputation. You get breakdown insurance for the price you'd pay for ordinary implements. We get your faith and your good word-and they count a whole lot in this business.

This plus-strength does NOT mean extra weight, nor clumsiness. It wouldn't be worth having if it did mean either of those things.

Putting this surplus strength into a Cockshutt Implement is a matter of careful choice of materials; of Lighter draft irons; of special factory processes; of special study by experts who plus-strength are highly paid to accomplish this very thing—and to do it without increasing, but rather by lessening, the friction and the draft of the implement. Cockshutt implements stand up better and still draw lighter.

As the Cockshutt Line includes a great many kinds of implements-ranging from light garden plows to huge 12-furrow engine gangs, and including harrows, cultivators, seeders, and other kinds of modern farm-equipment -it is not possible to tell you here just how this plus-strength is shown by each of them. But if you will just write and ask for our catalog, and tell us what particular implement you might be interested in, the details will go to you by return mail. That is well worth your while. It means money saved to youand satisfaction gained. Write us to-day.

Seeds Closest Runs Easiest Guaranteed not to Clog

If you knew, to a dead certainty, that seeding your land to any grain with this New Disc Drill actually would increase the yield from 2 to 5 bushels an acre-if that could be proved to you beforehand-you would think pretty seriously about investing in one, wouldn't you? Well, that CAN be proved to you; and so can it be proved to you that no other seeding machine built will do what this does. Free Booklet B proves it.



Booklet .. B"tells you, among things you ought to know, why this New Cockshutt Disc Drill sows anything grown in drills, whether small as tobacco-seed or big as broad-beans, with greater accuracy and far more uniformity than any other method of seeding can do. The pictures at each side of what you are reading now suggest one reason why this is so.



The picture above shows that the grain-boot Discs are set six inches apart with a sevenon this Drill does not touch the disc at any point; and, also, that the space between boot and disc widens gradually from bottom to weeds, stones, etc., to jamthere. Nothing of that kind can block the free turn-

ing of any disc. There's nothing to hold mud or trash. That's why this drill will work perfectly under conditions that would stall any other

This shows the one perfect disc-bearing-GUAR-ANTEED dust-proof and self-oiling. It accounts for this Disc Drill's wondrously light draft.

inch stagger, and at exactly the angle that will cut the ground easiest. Grain follows right down the grain-boot into the BOTTOM top. This makes it impossible for trash, of the furrow-always at the depth you adjust for-no chance for missing. And you

can seed from one-half of the hopper only, if you wish to -often a big advantage. The grain-feed is a FORCE-feed, governed by a lever handily reached from the full-width running board.

This Drill's drop-pattern frame, of high carbon angle steel (extra tough, extra strong), has a heavy I-beam running across the machine's whole width. The whole frame is RIVETED together-not bolted-nothing about it to shake loose or get out of true. And this is simply one of many Plus-Strength and Minus-Draft features of the Cockshutt New Disc Drill. SEND FOR THE BOOKLET that tells about them all-send to-day. It's FREE. Address