The Sugar Bush, a Great Natural Resource

Vol. XXVII No. 10

ONE DOLLAR A YEAR

The CANADIAN DAIRYMAN The CANADIAN DAIRYMAN FARMING WORLD

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Toronto Junction Best Place for Winter Fair

Ed. The Canadian Dairyman ame Farming World.—Were the winte Fair moved from Guelph to Toront Junction I think that the accommo winter Junction I think that the accommodation would be improved. The buildings at Toronto Junction are ahead of those at Guelph. As to loading and unloading stock, the Junction has both the G.T.R. and the C. P.R. at hand, while at Guelph the G.T.R. does not give the accommodation to exhibitors it should us the place for the Winter Fat. It could take in all classes of live stock and seed grain. A show located there, could be made equal to Chicago, if not better.

D. DeCourcey. Bornholm, Ont.

FAVORS TORONTO JUNCTION

Editor, The Dairyma Farming World. — I have Dairyman always been surprised to see such a show as the Winter Fair kept in the back-ground as it is at Guelph, because of the improper accommodation at hat point. I heartily endorse what Stock Yards' banquet recently, viz.:
"If Canada wants to come to the front, she must display her best goods

front, she must display her best goods in her front window."

Toronto Junction is the place for the winter fair. I have thought so for years. I hope the day is not far distant when we shall see it there.—A. A. Colwill, Durham Co.,

Tuberculosis Among Cows at Winnipeg

Investigations by authorities and interested persons show that infected meat and milk have been sold in Winnipeg slmcet indiscriminately, and that about 70 per cent. of the dairy cows are afflicted with 'aberculosis. No official inspection by a qualified veterinarian has been made for 10 years. The condition of the cattle is so bad that abattoir firms have refused to buy dairy cattle for slaughtering purposes. Prompt action alaughtering purposes. Prompt action will be taken to remedy the present state of affairs, and the tuberculine test will be administered to dairy cows at once. Meat coming from the outside will also be closely inspected. The cattle of the west, particularly on the ranges, fortunately are peculiarly to the range fortunately are peculiarly and the results of the confined have attacked only the confined herds.

Farm Help Supply

The demand for farm help this spring is likely to be as keen as ever. It has set in already. The immigra-tion agencies are being besieged with applications from farmers. A few years ago the demand for help did not set in until about seeding time. scarcity of suitable help has changed this, and now hiring begins a month or two earlier.

The Dominion Department of Immigration has charge of the distri-bution of firm help in Ontario, out-side of what may be done by the Salvation Army and other agencies. There are 175 sub-agents distributed through all the leading towns and cities of Ontario. The Toronto agency, which is in charge of Mr. Stewart, is largely a forwarding office, from which men are sent to the fice, from which men are sent to the various districts. This agency places a number of men in the vicinity of Toronto. Since Jan. 15, over 300 have been placed on farms, chiefly from the Toronto unemployed. Mr. Stewart has 200 applications for men on hand, and for 50 servants.

It is the aim of the Department to bring the local agent in touch with

the booking agents in Great Brit the booking agents in Great Brit-ain. Immigrants are booked direct to the local agent, and within easy reach of the farms where help is wanted. The Dominion Department does not pay the railway fare of the immigrants, as was done by the On-tario Department. A ticket at two cents a mile is secured, but the im-migrant has to pay this, or the far-mer, who keeps it out of his wages. There are some advantages in this.

There are some advantages in this. The immigrant, when leaving England, will try and get booked direct to the nearest point where work is has pleese for the men on arrival, so that there is no delay or extra expense in getting to work. A plan, which is being largely followed, and which is working well is to have men placed before leaving the old country. The booking agent sends in advance a paper, describing the immigrant has a duplicate of this, which he presents to the agent on arrival. Formerly the bulk of the immigrants were booked direct to Toronto. Here many of them remained, and refused to go on farms, eventually becoming subjects for There are some advantages in this. eventually becoming subjects charity during the winter.

Compelling each one to pay his own fare to his destination, has the effect of procuring a better class of help. The fellow who has enough, or who can earn enough to pay his or who can earn enough to pay his way, is more likely to stay at work, and to give better service, than the one who gets everything for noth-ing. The aim is to procure the best class of men obtainable.

WAGES BEING PAID

The wages paid are about \$10 a month and board for inexperienced, and \$12 to \$15 a month and board for partially experienced men. Men having farm experience in Great Britain get about \$20 a month and board those with experience on Canand those with experience on Can-adian farms from \$23 to \$25 a month with board. The bulk of the nelp that has come to this country from the old land is inexperienced. It is difficult to get experienced men. The tude c immigration this way has not set in this season, but it will begin very shortly.

A great many married men with families come to Canada. These are hard to place, as comparatively few farmers have a second house for them to live in. If there were more extra houses, reliable men could be secured who would remain longer than the single men, and would not break into the family circle, as the latter do. Many farmers are adopt-ing the extra house plan, and are finding it successful.

Leave for Europe

President Creelman, and Prof. Harourt, of the Ontario Agricultural Coliege, leave on March 2sth, for Europe, to investigate agricultural methods prevailing on the Continent, and in Great Britain. President Creelman will spend some time in Italy, and France, looking into some recent valthat is being conducted there. Prof. Harcourt will be absent a year, and will make a special study of the methods followed in England and Germany, in dealing with the adulteration of food products. In Germany, where he will spend most of his time, his time will be devoted to a study of the chemistry of foods.

The Winnipeg Industrial at its com ing exhibition, will hold a competi-tion in light agricultural motors, the first ever hold in America. Gold, sil-ver and bronze medals will be given for the best motor for general farm purposes. This should prove of interest to the big farmers of the west.

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

AGRICULTURE, THE KEYSTONE OF CANADIAN PROSPERITY

Vol. XXVIII.

FOR WEEK ENDING MARCH 25, 1908

No. 10

MAPLE SUGAR MAKING ON THE FARM

This Industry is One of Growing Importance. The Market Requires a High Grade of the Finished Product, which Can be Obtained Only by the Use of Modern Methods and Apollances

A INDUSTRY that is rapidly growing into prominence in Canada, is the production of maple syrup and sugar. This is by no means a new industry. Its development has been hampered, however, by the placing upon the market of adulterated goods. These are put up in attractive packages, and find easy accessing to the homes of unsuspecting consumers. As a consequence, the consumer is defrauded, the rarket for pure goods injured, and the producers of pure goods discouraged. Fortunately, this ainuse

is being overcome, largely through the better enforcement of that section of the Adulteration Act dealing with goods, such as maple syrup and sugar. Producers of pure goods, therefore, are receiving more encouragement than was accorded them formerly, and the industry is benefitting thereby.

The maple sugar industry is dependent largely upon weather conditions. When these are favorable, a larger run of sap is assured, which, if properly hendled, will result in as great a profit an acre as can be realized on any acre of the farm, provided the sugar bush is a good

Again, sugar-making comes at a time when other farm work is not pressing. The trees require practically no are, the sugar bush is essentially one of our great natural resources.

Unfavorable weather conditions, and the prevailing low market price

of maple sugar products, militate somewhat against the industry, yet it has been proven that the equipping of a sugar bush with a modern outfit for making syrup and sugar, is a profitable investment.

The quality of product that the market demands is that having a delicate, clean, main flavor, perfect in texture, and of a high grade. This grade is being produced in considerable quantities, and requires only adequate government protection to ensure its increased production. Again, an increased production of a guaranteed pure article, will be attended ultimately with an increased price.

THE EQUIPMENT

The great essential in the production of a highgrade article of maple syrup is the possession of a first-class equipment. A good description of a modern eq-ipment is given in the Dominion Department bulletin B, on the manufacture of pure maple sugar and syrup. The following extracts from the bulletin are to the point: "Everything with which the sap comes in contact should be made of tin or metal. In the bush it is necessary to have a sap spout and sap bucket for each tree tapped; a team attached to a wooden sled, to draw the gathering tank around when collecting the sap, and two larger tin pails for transferring

GATHERING THE SAP

The process of gathering the sap in a sugar bush is here illustrated. In the foreground a man is seen emptying the sap from the sap bucket into a gathering pail. Thence it is carried to the gathering tank and emptided as shown in the background.

the sap from the trees to the gathering tank. At the sugar house it is essential to have a large sap holder an iron or steel arch, with a modern evaporator in which the sap can be belied into syrup, a skimmer, two or three syrup cans, and a small iron or steel arch, with a heavy tin pan attached, for boiling the syrup into sugar. This is commonly called "sugaring."

THE SUGAR HOUSE

The sugar house should be located on a side hill, so that the gathering tank can be driven to an elevation at the side, high enough for the sap to run by gravitation from the gathering tank to the sap-holder, and hence to the evaporators. If the location will not permit of this, an artificial mound will meet requirements. A drain should be dug under the sugar house to carry off rain water and water used in cleaning utensils.
The size of the house will be regulated by the
size of the sugar bush. It should be well lighted
and ventilated. Suitable spouts and buckets
should be provided for gathering the sap. These
are described elsewhere in this issue.

THE PROCESS

The first operation in the sugar bush, after having everything in readiness, is tapping. The time to tap is when indications point to warm, sunny days, following cold nights. Care must be taken not to tap before the sap will run, as it has a tendency to dry the sap fibres, and curtail the flow. Tap in a healthy spot, preferably a southern exposure. Remove the bark from the spot selected, and with a bit, or tapping spoon, bore a hole slightly upwards, and about two inches

deep, and from ½ to ½ inches in diameter. The hole should be cleaned out and the spout inserted, te which a bucket is attached to catch the sap.

The sap should be collected when there is about a gallon in the buckets, as it rapully deteriorates in color after leaving the tree. It should be strained several times during the process of handling, and kept free from impurities and fore'gn matter. The sap holder should be kept as cool as possible as heat is detrimental to the quality of the sap.

Boiling should be commenced as soon as there is enough sap to keep the evaporator in operation. Boil rapidly, with the sap as shallow as possible in the evaporator, and remove the skimming whenever necessary. As the syrup is drawn from the evaporator, pour through a filter into a small can to cool, and when cool pour into the settling cans.

At the conclusion of each day's boiling the evaporator should be removed from the arch, and thoroughly cleansed. A convenient apparatus for removing the evaporator, is a set of pulleys attached to an over-head track, crosswise the arch.

SYRUP

Syrup should be of uniform grade, of a transparent amber color, and free from all sediment, An imperial gallon, properly strained, and allowed to settle, should weigh when cold, 13 lbs. 2 cos. If it is heavier or thicker it will easily grain; if lighter or thinner it may sour. The former is the lesser evil.

SUGAR

When the syrup has properly settled it is poured off through a strainer, into a "sugaring off" can. It is then boiled until it reaches a granu-

lated state, hard enough to cake into sugar. This state can be ascertained by placing a thermometer in the syrup when it commences to boil, and leaving it there until it registers 242 degrees, F., or 245 degrees F. Another way is by droping some of the boiling syrup into a cup of cold water, or on to snow, when, if it forms itself into a lump, it has boiled sufficiently. Otherwise it requires more boiling. When the granulated state has been reached, the pan of hot sugar is removed from the stove, and cooled until it begins to thicken, when it is placed into small pans for caking. If soft or tub sugar is wanted it should not be boiled so much. An imperial gallon of syrup will make about nine pounds of sugar.

The comparative profits resulting from the manufacture of sugar or syrup, depend largely upon market conditions. The producer must deeide for himself, which will be the more profitable for him to make.

Equipment for Sugar Making

In the manufacture of high-grade maple syrup and sugar, much depends upon the equipment used. The more care there is exercised in hand-

ling the sap, the better will be the arti-



The accompanying illustration shows a charcoal tin bucket, the kind generally used. Covers should be used on all buckets to exclude dirt, leaves, etc. As heat tends to sour the sap, it is well to have the cover ventilated.

The gathering tank is generally made of heavy tin, supported by an iron frame, and with a capacity of 75 to 100 gallons. The top should be concave, with double removable strainers in the The sap holder is very similar in construction. One with a capacity of 300 gallons is a very convenient size for a bush of 500 to

An evaporator, 3 x 10, is considered arge enough to meet the requirements of a 500-tree bush. This is made of a heavy grade of tin plate, and so constructed, with a corrugated bot-A regulator tom, as to form compartments. fitted to the pipe through which the sap flows from the sap holder to the evaporator, should be attached to the evaporator, for the purpose of automatically governing the flow of cold sap to the evaporator.

"We have enjoyed free delivery since May last, and would find it very inconvenient to do without it. The people on this route are not the only ones benefitted, as those living near crossroads have established boxes for their mail, while others have their mail come in care of someone living on the route. I think it justifles the expense, and we are well served in every

W. H. Knight.

Tipton, Mich.

THE NUMBER OF FAMILIES ON RURAL DELIVERY ROUTES

The Seventh of a Series of Articles Written by an Editorial Representative of this Paper, who Recently Visited the United States, with the Object of Studying the Free Rural Mail Delivery System.

N writing a series of articles of this kind, occasional repetitions are more or less unavoidable. In my last article reference was made to the statement of a Canadian post office official, who claimed that in the United States the post office department has been unable to live up to its rule that where a route is 20 to 25 miles, it should serve 100 families. This official claimed that the department had been forced frequently to establish routes where there were only 90 families, and in some cases where there were less than 80 families on a route. This was given as one of the reasons for the great cost of the service in the United States.

While in Washington I made a special effort to obtain information on this point. When sked if the charge was true, Mr. W. R. Spilman, superintendent of the Division of Free Postal Delivery. replied: "We do not require that there must be at least 100 families on a route 20 to 25 miles in length. All we require is that on a standard route, 24 miles or more in length, there must be a possible patronage of at least 100 families, and that three-fourths of the possible patrons shall be required to signify their intention to accept the service, and to provide boxes conforming to the department's requirements before the service is started. When the service was first started, many routes were established without proper in vestigation. We were deceived with some, and later found that they had even less than 70 families. Of late years we have been more exacting, and the average number of families on a route has been increased. On a considerable proportion of the routes, the number of families exceeds 100. I do not know what the average number of the routes is now.
"It often happens," continued Mr. Spilman,

"that when a route is first started ,there are some people who oppose the inception of the service. Some of them may be friends of the local postmaster. In such cases they generally are afraid that if a rural delivery route is established the post office will be discontinued. In some cases the postmasters canvass against the starting of a route. Other people oppose rural delivery because they do not want to be put to the expense of providing a letter box. Small country merchants sometimes stir up opposition to the service through fear that they may lose trade if the farmers do not drive into town every day or so for their mail.

"This opposition, however, almost invariably dies out soon. Once a rural carrier starts driving down the road every day, at about the same hour, the people soon begin to look for his coming. Those farmers, who have not provided themselves with boxes, see their neighbors getting their mail regularly every morning, and it is generally not long before they fall into line and accept the service with the rest. Thus, if 75 families on a standard route accept the service, as we now require that they shall before we begin it, it is not long before the number has increased to 85, 90, or 100.

ANOTHER CHECK

"We have another check on the routes beside the number of families," continued Mr. Spilman. "We expect that on each route there shall be an average of 3,000 pieces of mail handled during a month. The actual average per route for the whole of the United States, is over 4,000. When we find that the average on a route is falling below 3,000 pieces a month, we investigate the circumstances. If the case warrants, we have the route re-visited by one of our inspectors. Some routes, with 200 families, average less than 3,000 pieces of mail a month.

"Where the amount of mail being handled does not seem to warrant the service being continued, we notify the patrons along the route that unless more mail is handled, the service will be discontinued. Generally this is all that is required to bring about the needed improvement. The farmers along the route set to work and canvass any of their neighbors who are not taking the service, and try and induce them to accept



W. R. SPILMAN, Washington, D. C. W. R. SPILMAN, Washington, D. C.
W. Spilman is superintendent of the Division
rural free delivery for the United States. When
rural free delivery for the United States. When
representative was in Washington, Mr. Spilman was
tremely obliging and courieous. He very kindly g
up over a day of his valuable time to asswering
that our representative asked him. Part of the
terriew with Mr. Spilman is published in this is
Other information that he furnished will be gi
delivery in the United States has proved a suce
and that the government has been justified in introduc
the service.

In some cases the farmers subscribe for daily and farm papers so that the amount of mail handled on the route may be increased. Others who may be getting some of their mail through a box, at a post office, arrange to have it all handled by the carrier.'

WHAT IS DONE

"Do you." was asked. "actually cut off the service, if the amount of mail handled, does not equal the standard?"

"Yes," replied Mr. Spilman. "In some cases the service is reduced to a tri-weekly basis, and in others the former post office service is continued. such cases we make it a point to see that the amended service is equally as good as the patrons along the route had before the service was established."

The day following the one upon which he made the foregoing remarks, Mr. Spilman showed me a letter that he had just received. The writer stated that as a result of action that had been taken by the farmers in his vicinity, the amount of mail being handled on his route had been increased to equal the requirements set by the department. The hope was expressed that the route would not, therefore, be discontinued.

SOME INTERESTING FIGURES

Mr. Spilman was asked if the Post Office Department had any data showing the average number of families on each route. He replied that no statistics, giving that information had been prepared for several years. The latest information was contained in a table published in the

annual report of the Fourth Assistant Poetmaster General for 1903. Although the table referred to by Mr. Spilman is somewhat old, the information it contains is interesting. It shows that at that time, five years ago, when the department was not nearly as strict in enforcing the requirements of the service as it is now, the average



THE BEGINNING OF THE SEASON

Note the long shaped pail which is not easily blown from

number of routes in 50 States and Territoires, was 315. The average number of houses on cach route was 127. The average population on tach route was 585; the average number of boxes, 70; the average number of patrons, 381; and the average cost of each route, \$507.50. These figures show that the average number of families on the routes was high, although the number of boxes was small. The small number of boxes in proportion to the number of houses, shows that many families were not using the service.

In some cases the carriers allowed families to place a joint box at the side road. When the carrier passed, he placed the mail for the families living along the side road, in these boxes. The people living along the side road took trans in getting and distributing this mail to their neighbors. Some of the patrons used a "col my" box, made with compartments, to hold the mail of several families. This latter kind of a box, I was informed, had not proven very successful, as it generally was not long before the joint owners were quarrelling among themselves over its management.

EXPENSES OF THE SYSTEM

Those people who oppose the introduction of free rural delivery in Canada upon the ground of expense, should find the foregoing figures interesting. They show that the average expense of the service, based on the average number of houses on each route, was only a little over three dollars a year for each house. Based on the average number of patrons, the cost of the service was considerably less than two dollars a year a person. Based on the number of boxes, the cost was \$8.55 a year, or 70 cents a month. If there is taken into consideration the saving in the expense of the general post office service, that is effected by the cutting off of local post offices, and star routes, as well as the increased revenue that is derived from the increased amount of mail that is handled wherever the service is introduced, the cost of the service, as given, is still further reduced. Against this expense must be set, also, the increased value of the farms along the routes, the saving effected by the farmers through not having to go for their mail, and the great convenience of the service. Since 1903, the cost of service has increased considerably. ever, has the number of families on each route. Looked at in the light of the foregoing figures, it will be seen that the "tremendous expense of the service that we have heard so much about, is not such a serious matter as some people have tried to lead us to believe.-H. B. C.

Brood Sows Need Exercise

W. R. Bowman, Wellington, Co., Ont.

We endeavor to give our brood sows plenty of exercise. After the litter is taken off, we feed sparingly on grain and after the milk dries up, we feed liberally or roots and a little grain. Within a few weeks of farrowing we gradually slacken up the root ration, and add grain and bran, which puts on a good quality of flesh.

After the sow has farrowed feed sparingly for the first twenty-four hours and gradually increase the feed until rhe is consuming about all she can stand and continue the full ration until pigs are five weeks old, when they should be taught to eat, and not depend altogether on their dam. Then commence slacking off the feed of the sow until the end of six weeks, at which time her flow of milk will be greatly diminished and the pigs will be ready to wean.

Sugar Making on the Farm

Andrew Reichart, Iroquois, Ont.

The sugar making business is a profitable one, from the farmer's standpoint, if he abundons the dol-time method, and equips his sugar bush vith the latest improved machinery. There will oe a profit in it when he makes a good article, for which there is quick sales and good precs. The market is never over-stocked with the right class of goods. Sugar making comes in the time of year



THE EVAPORATOR ROOM

The only way to make a first-class article is by the use of modern apparatus

when there is very little other work to be done on the farm. The best results in tapping are ob tained from a 7-16 inch bit. Bore one inch to one and one-quarter inches deep. I find a bore that size will give as much sap as a larger bore, at the same time it does not injure the tree as much. The smaller the bore the quicker the tree will heal up. I have used a good many different kinds of spouts, but prefer the No. 2 Grimm spouts. I have found it to be the best Last year I had 1100 Grimm spouts in use, and 500 of the old metal spouts. For nearly two weeks the trees that were tapped with the metal spouts did not run a drop of sap, while those tapped with the Grimm spouts were running well. This year I am using all No. 2 Grimm spcuts. I use a 10 quart pail, made of good heavy tin. The pail should be made almost straight. 't will then stay on the hooks much better. I am fully convinced that it will pay to use covers for the pails. It will pay also when the season is partially over to re-tap or ream out the holes.

The sap should be gathered once every day, twice a day if possible. It has been my experience that the quicker sap is put into syrup the better grade of goods it will make. I never allow it to stand over night, if it can be avoided.

I use a Champion evaporator, and prefer it to any I have ever used or seen. It is a shallow boiler, easy to operate, and the siphons and interchangeable pans do away, to a great extent, with the lime and silica, and it is thus easier to keep clean. I use a Grimm gathering tank. Anyone who has any sap to gather should use one, as it strains the sap through a double sieve. This latter is one of the secrets in making first-class goods. Keep every particle of dirt out of the sap. Boil the sap as fast as it leaves the tree, and draw your syrup off every ten intues. An evaporator that you canot draw your syrup out every ten minutes is no good. Long-continued boiling injures the vitality of the goods.

A word about results. Last season I tapped 1,700 trees, hired all my help, and when the season closed, I had \$400 to the good. I certainly think there is a profit in maple syrup, if a man keeps up with the time,, and makes a good writcle. My syrup was all sold as fast as I could make it, and I had not enough to supply the demand. Maple sugar making is like everything clso—unless a man does his best he will rot make a success of anything. Before marketing, I put my name and guarantee of purity on very can that I send out. That shows that I am not ashamed of my goods, and the purchaser has confidence in them.

An Essential in Egg Production 10 bass

The American breeds of poultry, Rocks, Wyandottes, or Orpingtons, are probably the best as agg producers, especially for our climate. It is not so much to the breed as to the strain that one must look for success. Whatever breed one fancies, however, is the best for your purpose, but see that the stock has been bred for utility, and has a good laying record. When you have made your start, hatch the chicks in March or April, so that they will have matured and started laying before the cold weather sets in in the fall. If a pullet or hen does not start laying then, in most cases it will not do much till near spring.

The eggs from which the chicks are hatched must be from stock that is full of vitality. Otherwise we are up against it at the start. The chicks must be kept growing by liberal feeding right from the Incubator, and not allowed any setback. It pays always to replace our stock each year, hatching more pullets than one needs to allow for vigorous culling for off-color, and lack of vitality, and selling the old stock as soon as their profitable laying season is over in the fall. Generally, about the first of October, we sell the last winter's layers. Then they bring us more as roasters than their cost of raising, which about balances that item of expense.



GATHERING THE SAP
Two pails may be hung on large trees to advantage

Old hens of the American class, if forced in order to get the eggs, as one can safely do with the pullets, are apt to get overfat, also it is sometimes a difficult matter to get them over the molt and down to business again before the cold weather.

Manitoba Takes Drastic Action Against Weeds

The Manitopa Government is conan energetic campaign against noxious weeds. A bill to amend the noxious weed act of against hoxious weeds. A bill to amend the noxious weed act of 1906, now before the Legisiature, which is likely to become law, if pro-perly enforced should clean that country from foul weeds, or at least bring them under control.

country from the control of the Archael Carlo 1966. apply exclusively to the Canada Thistle Act, and the perennial sow thistle, though its provisions may be applied by the munic-pelity bylaw to other weeds which are considered injurious to agriculture. The main provisions of the new jegislation are: It shall be the duty of every occupant of land, or if the land be uncompanied to the control of by bylaw of the municipality, in each and every year before the 31st day of July, or each other date prior there-to, as may be determined upon by the impector having jurisdiction in the locality, to prevent the ripening and scattering of the seed of such noxious

Section four makes it compulsory upon the occupant or owner to cut and destroy weeds as above along the and destroy weeds as above along the roadway, immediately adjoining his farm, to the extent of one-half the width of the readway adjoining such land. In cases where land is held by Crown, or otherwise non-taxable, the council shall cause the weeds to be destroyed at the expense of the municipality.

Section five gives power to the municipality to cut and destroy weeds as defined above, on all vacant

in the district. Railway companies are compelled to carry out the provisions of the act on the right of way.

INSPECTORS PROVIDED FOR Other sections provide for the ap-

pointment of noxious weed inspectors to look after the enforcement of the Act by each municipality, and the notifying of he Department of Agriculture of the province of such appointment. Where the runicipality lails to carry out the provisions of the province of such appointment. Where the runicipality lails to carry out the provisions of the province of such inspections of the council of the municipality. In case the municipality feducate to pay the cost of such inspection the municipal commissioner of the province is given power to levy the amount against the municipality of the summicipal commissioner of the province is given power to levy the amount against the municipality of the summicipality of the province of the pro of such fine

DUTIES OF INSPECTORS

Weed inspectors where they find noxious weeds growing and in danger of going to seed, shall give notice to the person responsible in writing, requiring such weeds to be cut, and destroyed within a certain time, not exceeding five days, and such notice must not be given later than the 31st exceeding five days, and such notice must not be given laser than the 31st of July of each year, or such prior data as may be thought necessary. Every owner or occupant of land failing or neglecting to carry out the properties of the sections of the sect

the act will be enforced.

As thus outlined the provisions of
the new Manitoba Act is one of the
most rigid pieces of legislature ever
placed upon the statute books of any
province in Canada. Where noxious
weeds are such a menace to successful agriculture as they are in the
west destile measure, in processory. west, drastic measures are necessary. The system of farming followed, and the neglect of the farmers to remedy matters, have caused the older por-tions of that part of Canada to be overrun with weeds. The newer pro-vinces should take a lesson from Manitoba, and endeavor to keep them in check. Even Ontario and other Eastern provinces might learn a useful lesson. Weeds must be kept under control or agriculture cannot be made to pay in any country.

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Metallic Roofing Co.

MANUFACTURERS TORONTO and WINNIPEG

aceds of a species of water lily ger minated after having lain fitty-six years in a museum. With ordinary farm grains the life of the germinat-ing power of the seed is limited to from two to five years, depending upon the condition in which the sesential in the preservation of seed. Other things being equal, the farmer should secure the seed is all right, test it. Particulars for test-ing have _seen given in previous issues.

QUALITIES OF GOOD SEED

An English authority gives the qualities of good seed as follows:
Wheat.—Bright, thin skin; freadom from swell; plump grain; groove well filled in; color, red or white, according to variety; dryness.
Oats.—Thin skin; plump grain; color, black or white—not known, which

Oats.—Thin skin; plump grain; solor, black or white—to known, which
indicates heating at some period.
Barley.—Thin, wrinkled skin, grain
not shrunk, but plump, light golden
color; freedom from smell; dryness.
Pens.—Dryness, and full size of the
variety; colors, white, blue, brown
and mottled. Black peas have been
subjected to wet in the field, or elsewhere, and are useless for seed.
This definition of what constants,
should enable any farmer to recognize
good seed, when ne sees it. Of course
no amount of quality in the individual seed will make up for weed seeds
and other impurities in the sample.
It would be better to use an inferior
quality of seed, that was clean, than
a superior seed containing noxious? superior seed containing noxious

Power of Railway Commission Extended

The bill of the Minister of Railways and Canals, brought down at Otta-wa recently extending the powers of the Railway Commission, will mee with general favor. Telegraph, tele with general favor. Telegranh, telephone and railway cartage companies, and sleeping cars, will come under the jurisdiction of the commission. Power is also given to order railways to pay reciprocal demurrage, and to compel railways to pay if they delay to supply cars, when demanded, or, if after supplying cars, they delay delivering them at their destination. Fruit shippers and others have been rut to creat inconvenience and loss

Fruit snippers and others have been put to great inconvenience and loss through delay in getting cars, and their goods not arriving at their destination in time. The commission will now kave power to compel the railways to remedy these grievances.

SECURE A FARM In the Canadian West

The opportunity of obtaining a first class quarter, half, or whole section in the FAMOUS BATTLEFORD DISTRICT on exceptionally easy terms, is now presented for your consideration

Thousands of acres of the very best agricultural land, suitable for straight wheat growing or mixed farming, with an abundance of wood for fuel, fencing and small buildings, can be secured on payment of a small cash payment, as in evidence of good faith. go onto this land with your stock and implements, and proceed to cultivate it. It is only necessary that you break THIRTY-FIVE acres of the land each year until you have it all broken. The land will then pay for itself. Your Contract will call for you to deliver to the nearest Elevator one-half your crop, the other half will pay your expenses, so you are really buying on the very easiest plan imaginable. These farms will yield you the Very Best Crops of the Very Best Acreages, and are located in various points of the Battleford District, in close proximity to new towns and schools.

Better your present conditions by getting a line on one of these places.

Write at once for map showing locations of these different farms. There are only about Two Hundred of these locations available at present, so that it is advisable for you to get a selection. Correspond at once.

E. H. WHITE -Battleford, Sask.

Farm Lands for the Settlers on the Easy Crop Payment Plan

Some Points That Helped the or three days Judges

to important features of Mr. Geo. McKenzie's farm, which was awarded first prize in the dairy farms' ed first prize in the dairy farms' competition last summer, were the cleanlinese and neaturess of everything about the farm: and the fact that Mr. McKenzie had been working for years with a definite object in view—the improvement of his farm. These were features about the farm in general, as noticed when visited by the judges in June. Mr. McKenzie follows a system of rotation, in his farm management. This was the followed by grain seeded to grass, and left down for from one to three years, according to condition of land as to weeds As a result of good management, the

visit, however, that these features became even more apparent. Many dairymen, owing to lack of proper stable accommodation, have their stables in winter in every unsanitary condition. As a consequence, stock does not look, or do, as well as it might. Mr. McKenzie's stables were the opposite of this. They are commodious, well lighted and well ventilated. The walls are kept whitewashed, and the floor is clean. The stock gives evidence of its comfortable quarters, and the good treatment it receives. They are groomed every two

A large silo is a fea-

ture of the stable.

The herd is composed of a few reg-The nerd is composed of a few reg-ist-red Holsteins, and some good grade Holsteins. The rest are com-men grades, which Mr. McKenzie in-tends to dispose of as soon as possi-ble. He has two of his best cows en-tered in the yearly test, and is test-

ing others himself.

Mr. McKenzie feeds turnips, totogether with bran and shorts, oil cake
meal, ensilage and wheat chaff. He meal, chislage and wheat chaff. He has had no complaints about tainted milk from the feeding of turnips, as he feeds them judiciously, in limited quantities, and immediately after milking. Furthermore, the milk after being drawn, is handled so as to-surer its bett keeping qualities.

down for from one to three years, and and down for from one to three years, according to condition of land as to week cording to condition of land as to week cords. We have the construction of land as to week comps were in so of shape. The cattle also were in excellent condition.

It was at the time of the winter visit, however, that these features behavior of the condition. It was a the time of the winter visit, however, that these features behavior of the condition of the condition. As a consequence, stock does not look, or do, as well as it might. Mr. McKenzie's stables were the opposite of this. They are commoditions, well lighted and well ventile that the condition. As a consequence, stock does not look, or do, as well as it might. Mr. McKenzie's stables were the opposite of this. They are commoditions, well lighted and well ventile.

HANDLING THE MILK

A good cement milk house erected on this dairy farm last fall, has much to do with the good quality of the milk produced. This is divided into

AYRSHIRE RECORD OF PERFORMANCE

The following is a list of the Ayrshire Cows which have qualified for the Record of Performance during 1907.

Name of Cove.	Owner.	ibs. of lbs. of Milks Fat.		Days in Test.	
Almida of Dunville, No. 15,282 Mttile, No. 11,529 Lady Isabel, No. 7,467 Winepa of Brook Hill, No. 7,497 Miss Sandiland, No. 8,534	A. Hume, Menie, Ont. G. Laugilier, Cap Rouge, Que. J. N. Greenshields, Danville, Que	9,0151 11,357 10,202 8,884 9 843 8,5791	344.65 409.95 375.36 332.60 371.08 312.57	322 365 365 344 365 345	
Bargennock Heather Bills, No. 21,366	R. R. Niss, Howick, Que	8.549}	314.92	322	
Nellie Burns of Burnside, No. 13.317		8,722	320.05	275	
Matchless Beauty of Neatharles No. 19,601 Daisy Carlheim, No. 11,548	G. Laugilier, Cap Rouge, Que, J. N. Greenshields, Danville, Que	8,845 12,297	3:2.4 386.40	365 365	
Lady Pearl of Burnside, No.	R. R. Niss, Howick, Que	9,226}	328	287	

THREE YEAR OLD CLASS

5	Norena, No. 19,391 Jubilee of Hickory Hall. Primrose of Hickory Hall, No.	W. D. Parker, Hatley, Que N. Dyment, Clappison, Ont			7,1441 8 771.6	282 387	350 343
	15,333 Rosalie of Hickory Hall, No.		**	****	8,558.4	378	355
d	23,482	- 11	18		7,935.7	350	365

TWO YEAR OLD CLASS.

Lady Clare 4th of Burnside No.				
22,293 Barcheskie Sucky Girl, No. 21,363 Monkland Dorothy, No. 21,370 Finlayson Rose, No. 21369	R. R. Niss, Howick, Que	7,959 8,710 6,046 7,163	309,3 350 245,3 285	294 313 292 335
Susie of Hickory Hill. No. 22,336 Isaleigh Nancy 1st, No. 20,525 Sunneymead Princess, No. 19,350	J. N. Greenshield, Danville, Que	6,410 7,439 6,748	3/6	365 345 365
Minnie of Elm Shade, No. 18,883 Barcheskie Sybil	H. Gordon, Howick, Que G. Laugilier, Cap Rouge, Que.	7,5334 6,080 6,128 9,924	283 270,9 236,2 366,9	280 296 300 365

Tolton Harrows





STEEL

Section and Flexible All Steel Harrows with an unequalled record.

A large variety suitable for the requirements of any country, made in different widths to suit purchasers. Pre-eminent home deficient, strongest, and lengest wearing Harrows ever to write used freeze. Pre-eminent because the most efficient, strongest, and lengest wearing Harrows ever to write used freeze apply to the local segont.

OUR MOTTO—"Not How Cheap, but How Good."

TOLTON BROS., Limited, GUELPH, ONT.

milk vat is a stand, on which is lo-cated a large wooden tank. This tank is fed by a windmill drawing from a spring. Owing to its elevation, the bottom being considerably higher than the level of the barn, the water runs to the barn by gravitation, where it is distributed into water basins,

abut one hundred birds in this flock, which have all been carefully select-ed, and bred from good egg-laying strains of the breed.

MR. DUNCAN'S FARM

The largest dairy farm in the dairy The largest dairy farm in the dairy farms competition, is that of Mr. David Duncan, of Don. Mr. Duncan's farm correists of about 30° acres and supports 87 head of cattle, principally pure bried Jerseys. Mr. Duncan follows a good system of rotation, and, as a consequence, he has been able to greatly increase the fertility of the soil, thus enabling him to produce good crops from year to year.

year.

His buildings are large and airy.
His stables are not quite so well modelled as some of the other stables in the competition, though he proposes remodelling them shortly. His herd of pure bred Jerseys is the best of any of the competitions in the competition. It is, in fact, a show herd, having won many prominent prizes at the Jeading Canadian fairs.

At the time of the spiner visit of

at the leading Canadian fairs.

At the time of the winter visit of the judges, the stock was in good condition. Mr. Duncan is feeding Goodenham grains, and finds them both cheap and effective Besides this, he has two silos, which gives him an abundance of good feed, not this, he has two silos, which gives him an abundance of good feed, not file of the stock of the state of the st Kenzie

Besides the dairy, Mr. Duncan turns off a large number of hogs each year. This branch of the business he regards as a most profitable adjunct to dairying. Mr. Duncan has sold over \$1,500 worth of hogs at one time. He accorded to the second prize in the company. secured second prize in the compe-

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HORTICULTURE

How and When to Spray Eunice Watts, Waterville, N. S.

At the fruit and seed fair held in Berwick, N. S., by the Nova Scotia Farmers' Institute, late in February, Mr. W. H. Woodworth, secretary of the association, delivered an able address on spraying. He emphasized that in crder to spray well the fruit grower must have good apparatus, which should consist of quarter inch hose, five or seven ply, with a length of 25 or 30 feet. All parts of length of 25 or 30 feet. All parts of the pump which are to be submerg-ed in the liquid should be of brass. Mr. Woodworth said that there were many good nozzles on the market, but he preferred the Planet Junior, which produces a fog-like spray, and nevs. cloga or catches. He strong-ly advocated the use of an indicator on the pump.

Other pointers were given as to the care of spraying machinery. The hase should always be carefully washhose should always be carefully wash-ed out after use, and in winter it should be safely housed in a frost-proof puilding. The audience was reminded never to omit straining the Bordeaux through a cheese cloth, as the finer the particles, the longer they will be held in suspension. It is necessary to keep the solution agitated, or it will settle, and most of the Paris green will be thrown on the first trees. Later the operator will wonder why the worms were killed on the first trees, while they flourish on the last that were sprayed.

In order to kill the bud-moth, the In order to kill the pud-moun, the first spraying should be done before the buds open. The next spraying should be done after the petals ha e fallen. Much indignation was exfallen. Much indignation was expressed at the growing practice of spraying when the trees were in full bloom. It not only kills the bees, but is very injurious to the tender organs of the flower, and destroys the pollen. It was proved in Wolfville that apples sprayed in the flower stage were not saved from black spot.

ble to attack russet spots. Black spot is never found on a russety surface, as it has been protected by the Bor-

People might put on seven or eight barrels of solution a day, but it is impossible to spray properly, and put on more than four or five barrels of material

It is advisable to plow in the fall, thus covering diseased leaves and preventing any spores of black spot floating back to the trees.

At this juncture several questions were asked, and discussion followed. Mr. Woodworth advised the sowing of vetches in the orchards in preference to commercial fertilizers. Sev ence to commercial fertilizers. Several leading fruit growers then related their success in growing these legumes, the majority of them preferring to sow summer vetches, as the winter vetch, although claimed to be a better nitrogen gatherer, was to expensive for most growers to buy.

expensive for most growers to ouy.

The reasons given for apple spots in the warehouse were (1) putting leaves in barrel with the fruit, (2) leaving barrels in the orchard in damp weather, (3) putting damp fruit into a warm temperature. The last two were ideal conditions for propagating the disease. pagating the disease.

Tomato Growing.

R. H. Lewis, Hamilton, Ont.

For early tomatoes start the seed in March. The date will depend upon the locality. In the Hamilton disthe locality. In the mannion trict it is from March 1 to 15. in drills, four inches in hotbeds. Earlina is trict it is from March 1 to 15. Sow in drills, four inches apart, in hotbeds. Earlina is the best variety. The young plants should be transplanted twice, the first time to four inches apart, and the second six inches. Keep the plants growing without a check. Spray with Bordeaux mixture to prevent injury from fungi.

Plant early varieties out doors about May 15 to 20. Before removing from the hotbeds, soak the soil well with water, then remove in hoxes, and plant with a spade. Place the plants about four to five feet apart. The land should be fairly rich for the early varieties. For best results it should be prepared an. manured during the fall previous. When planting it is necessary to use a marker.

to be planted.

The seed for late tomatoes should be sown about two weeks later than recommended for the early ones. These should be transplanted, once These should be transplanted, once to four inches apart. The land for late tomatoes should not be too rich, or vine will be produced at the expense of fruit. The leading varieties are Stone and Success. The former is the better for long distance shipping, but is not so productive.

(A portion of an address delivered at a recent meeting of the Toronto

at a recent meeting of the Toronto Branch of the Ontario Vegetable Growers' Association.)

The Strawberry

Wm. Blatchford, Prospect Hill

In discussing the virtues of Na-In discussing the virtues of Nature's most gracious gift in the fruit line the late Mr. John Little, of Prospect Hill, once wrote: "No branch of horticulture offers more induceof horticulture offers more inducements than the growing of strawberries. Thriving more or less on any soil, in any piace from Newfoundland to British Columbia. it repays high culture as well as any fruit grown in this latitude. It does not demand much land, expensive tools, much capicol, nor much physical strength. Its culture recommends itself at once to persons who have small places, to city men who long to leave the desk and to delve in Mother Earth, to old men women, hows and grifs. to old men, women, boys and girls to all who love to till the soil, and to watch the growth of plants, study their habits, supply their wants and reap their fruits. They are sure growers and almost equally sure to sell at paying prices; they exhaust growers and aimost equally sure to sell at paying prices; they exhaust leave both richer. Their culture of-fers employment that is pleasant, easy, refining and profitable, and gives an opportunity of doing end by supplying and by supplying and the proand woman and by sending health and happiness wherever the berries

go."
It is not desirable that all should engage extensively in strawberry growing; but almost every one who has a few rods of land, shouid have a small plot for family use. This is especially applicable to farmers; yet Mr. Woodworth warned growers not it should be prepared an. manured the majority of agriculturists totally to spray during damp or foggy weather, or russety fruit and leaves would ign it is necessary to use a marker. one of the many pamphlets on strawbe the result, and rot was more liaThis may be done by hand or with bery culture would post a person

a horse, depending upon the area to thoroughly on the best methods of ultivation, and nd would ensure posi Only a few varities ar re success. Only a tew validation of the control of required for home use, but standard required for home use, but standard standard for the standard standard for the standard standard for the standard standard for the standard standar

Extensive growers cannot be content with old varities. They must keep abreast of the times, and so must test many of the new introductions. One of those most meriting attention, is the Cardinal, of which much has been written, and many good things said. From one dosen blanks reserved or, we obtained about 400 new plants. Two hundred of these were planted last spring and the remainder left to fuit. The result proved the truth of the best reports from such growers. io f.uit. The result proved the truth of the best reports from such grovers as G. J. Streator, M. Crawford, The Templin Co., and others. Besides being a great plant producer, very productive, good size and very firm, it is one of the best varieties for canning purposes. The most exacting the strawberry line. ning purposes. The most exacting connoisseur in the strawberry line, goes into raptures when indulging in this delicious berry. We can highly recommend it to all growers of this

Scallion onlons usually are due to the planting of poorly selected seed of immature bulbs, but sometimes, they are difficult to account for.

Cherry tree need but little pruning after the young trees have been properly formed.

arms for sale should he advertised in our For Sale column.



Don't let the high price of Seeds influence you-Get the best. It pays; never economize in Seeds at the expense of quality.

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"LION" Red Clover "CONDOR" Alsike Clover "SNOWFLAKE" Timothy

We offer lower priced "Brands" Red Clover, "Tiger," "Wolf" and "Lynx," Alsike Clover, "Eagle," "Hawk" and "Stork," Timothy, "Martin," "Beaver," "Seal" and "Ermine." All our Seeds comply with the requirements of the Seed Act, and are unsurpassed for High Purity and Germination, and are sent out in sealed bags.

ASK YOUR DEALER for STEELE, BRIGGS' "HIGH PURITY" SEEDS and secure the highest quality obtainable. Our Special "Brands" are sold by leading merchants everywhere. If your local dealers don't keep them send to us direct. Note our "Brands" of Quality.

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mannama

The Poultry Man

Wilbur Bennet, Peterboro' Co., Ont. The most important part of the whole poultry business is the man himself.

Beaman who makes a success of poulty to-day must have a genuine love for his fowl. He must not have a lay alter his many a lay streak in him. These two features properly applied, with the addition of some brains, will give him eggs in winter from his flock. He will not need a hospital or medicine chest sher than a hatchet, which should be the remedy in all cases of debility, weak lungs, or sick birds, and thus the vigor of the utility flock is kept up to the lay beat protch. A fancier will generate the stream of th The man who makes a success

CHAS. A. CYPHERS' Model Incubators

and Brooders On my Model Poultry Farm I now have soultry numbering 80,000 hatched and prooded in my famous Model Incubators

brooded in my famous Model and Brooders. Buy-ing your incubators and brooders of a man who knows nothing (or next to nothing) about hatching and raising poultry is running a useless risk. Don't 4a it.



I not only sell you a Model Incubator or Brooder, but 1 add to them the valuable experience of years as shown in their construction. Model Incubators show excellent hatches, hatch every hatchable egg. The Model Brooder grow sturdy chicks.

Send your order in to-day, and get in the with the profit getters. Free catalogue for everyone.

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POULTRY EXCHANGE TWO CENTS A WORD, CASH WITH ORDER

FOR SALE—Clover cuiter for Poultry, on standalmost new, and other supplies. J. H. Callader, Review office, Peterborough, Ont.

BARRED ROCKS and BUFF ORPINGTONS— Hest strains—bred for utility—Egg record hard to qual—Eggs \$1.00 per 13, \$4.00 per 100 Wilbur ismnett, Box 208, Peterborough, Ont

FOR SALE.—Six Choice Barred Plymouth Rock Cockerels at a bargain. J. F. TRIVERTON, Poucher's Mills, Ont. STEPHEN OLIVER, Lindsay, Ont.—26 kinds f fowls—Hamburgs, W. Leghorns, R. Caps oudians and W C B Polands.

J. J. SACKETT, Lindsay, Ont. - Breeder of White Leghorns, S S Hamburgs and Barred

INCUBATORS FOR SALE.—Three Models One Chatham. One Toronto Incubator Co. also Wire Notting. F. ROBERTS, Danforth Post Office.

WINNIMG STOCK AT GUELPH, 1907, Buff Orpington and White Wyandotte, egge for sale at \$1.50 a setting. H. T. Lush, 182 Dublin Street, Peterboro.

make his flock pay for its keep in marketable eggs and dressed chickens.

Care of Poultry

Care of Poultry

"if poultry were properly cared for, they would give better returns than the poultry were properly cared for the poultry was a pour side of the poultry was about \$1.46 a year to keep one hen. Plymouth Rocks and White Wyandottes are the best general purpose fowls. It is not advisable for a farmer to invest in an incubator, unless one of the family is prepared to give it proper care and attention. A better plan is to set four or five hefis at terp plan is to set four or five hefis at terp land to set four or five hefis at the plan is to set four or five hefis at the plan is to set four or five hefis at the plan is to set four or five hefis at the plan is to set four or five hefis at the plan is the pla

bad there is a chance to put new eggs under the spare hens. It is better to set hens at night in a separate trood house, first taking care to give them a thorough dusting with insect powder, or when the chicks hatch the parasites will bore into their heads causing death, un-less the intested parts be smeared

with grease.

Hens should not be set after Jur Hens should not be set after June, as young chicks do not thrive well in hot weather. No food should be given to the birds until they are over a day old. The yolks which their bodies have absorbed, are sufficient to sustain them. The first food should consist of bread, soaked in milk, squeezed Gr, and crumbled hard-boiled outs. Later on a mash could be given of bran, corn meal, middlings and milk.

Age Limit of Eggs for Setting

I have a cockerel and two pullets that I raised from an imported setting of hist I raised from an imported setting of hist Orpinston eggs. I have made the trio and want to breed only from them, so as to have as many of this kind next age of one egg a day, it will take some time to save a setting. How long will ave age remain fresh enough to hatch out eggs are waiting to be set.—L. R. C., time-berland Co., N. 8.
As eggs are now being superspections.

berland Co., N. S.

As eggs are now being successfully sent long distances for hatching purposes, it follows that they will keep under favorable conditions, for keep under favorable conditions, for some time. An egg a day would only mean two weeks saving to get a set-ting. The first eggs will certainly keep that long and hatch well after-wards, though they will be a few hours later than those perfectly fresh. While saving them, lay them on bran and turn every day. Keep in a cool,

A House for the Winter Layer

Wilbur Bennet, Peterboro' Co., Ont.

Wilbur Bennet, Peterboro Co., Ont.
Having a properly constructed and
ventilated poultry house is essential
to winter egg production. I do not
favor warm and expensive houses, as
they are not required. Do not build
double walled or artificially heated
buildings. Such are unnecessary even
in the coldest weather. What is required is a house tight enough to
pretent all draughts, and one that is
perfectly dry. An earthen floor is the
best possible, and also the cheapest,
and the windows should be gener us,
made either of glass or cotton curtains,
placed high enough on the south side

TRINITIES STOCK AT GUILLPH, 1807, Bard and cather of glass or cotton curtains, or prington and White Wynagotte, egg for sale at \$1.50 a setting. H. T. Lush, black dight enough on the south side placed thigh enough on the south side in the first prize of the fi

and other coops. The litter on the floors should be changed often enough to have it always dry and clean.
Fowl may be kept in almost any size flock, some people having as high as 2000 together, and using the hopper feeding system with success. Of course in the large flocks, they are kept solely for egg production, but for foreding purposes it would are present the floor of the country of the company of the company of the company of the country of the c

Need Grit and Vegetables

We hens are not laying and moop around a good deal. They no not seem hungry and leave their foot after eating rather listlessly. I feed good grain, changing from The pen is a comfortable one, and fowls eem healthy, but pale in the comb, and they give no return for the feed given them. What is the troublet—Mrs. T. B., Sask.

T. B., Sask.

The trouble appears to be lack cf grit, and probably the birds require some vegetable food as well. You can get first-class gri: from your feed store, as most of these stores now carry a stock of it. It is very cheap, only about one cent a pound. The vegetables you can give in the form of cabbage heads hung in the pen, or mangels, spit.

With these additions, and plenty of clean water, you should have a healthy flock, and get eggs.

The Breeding Pens

How soon should the breeding pens be mated up in order that I may have chicks in April that will be from the male and many hens would you advise to mate with one msle, of the American cluss? Are any males needed with the general laying flock*—J. W. Garleton County.

any males needed with the general laying flock+-J. W. Carleston County.

It is time the breeding pen was mated up now, if results are wanted from that pen, for April breeding. You can mate 8 to 10 females to one male of the American class. It is much better to have no males with the males to the second of the American class. It is much better to have no males were annothed to have a number tilized age, that will keep indefinitely, and even after being incubated for some time, would still be as sweet for user as when fresh. Most of the large egg ferms now keep their layers away from the male bird, and thus get a better class of eggs to supply their trade.

Mites in Incubators

After running my incubator in the cellar for a couple of hatches. I found it was covered on the inside with a small mites as the machine is a new one, and has never been near where poultry is kept. What are they, and what will keep then down!—J. B., Feel Co., Ont.

kept. What are they, and what will keep teen down!—3. B. Feel too, Omt.

Your cellar is probably a little damp, and the insects are caused by that, and while harmless, they are disagreeable to work around. A tar disinfectant would probably expel them. A preparation that is spoken highly of, and recommended for such purposes, is "Zenoleum." This is a tar product, and has the additional advantage of being "Made in Cannida," the plant being at Windsor, Ont. It is carried by druggists all over the country, and you can likely secure it easily. It is also said to increase the vitality of the chick if used in the incubator.





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of highest possible quality and richest breeding. Have sold as many stallous the last year as any man in the business, with number of high-class horses on hand, My motto: "None but the best and a straight deal." Will be pleased to hear from any one wanting a rare good one. Terms to suit. Long

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Our Clydes now on hand are all prizewinners, their reeding is gilt-edged. Our Hackneys, both stallions of marcs, are an exceedingly high-class lot. We lso have a few high-steppers and earriage horses. 'onge Street cars pass the door every hour. 'PHONE NORTH 4483.

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CLYDESDALES and HACKNEYS

Imported and Canadian Bred Clydesdales and Hackneys For Sale

Our stables have won Firsts and Championships at America's leading Shows, and a few individuals of the show ring kind are always on hand. Come and see them, Messrs. Hodgkinson & Tisdale, Beaverton, Ont. Long distance phone at Farm. C.P.R. & C.N.R. STATIONS

YORKSHIRES of Choicest Type and Breeding



I have on hand 75 brood sows of Princess Fame, Cinderella, Clara, Minnie, Lady Frost and Queen Bess strains. My stock boars are true to type and of richest breeding. For sale are a large number of sows bred and ready to breed, boars fit for service, and younger ones of both sexes. Pairs and trios

J. W. BOYLE, Woodstock, Ont.

Oak Lodge Yorkshires

A large herd of choice Pigs of all ages on hand, quality guaranteed. No other herd has such a record in the show-ring, covering several years. Oak Lodge type of hogs are profitable breeders and ideal bacon hogs. Correspondence solicited.

J. E. BRETHOUR, Burford, Ont.

First Lessons in Dairying.—A hand book setting forth the underlying the principles of dairying in the laboratory and on the farm, bears the title at the head of this article. It is edited by Herbert E. Van Norman, ontar edited by Herbert E. Van Norman, ontar sylvania State prublimal College, exem and published by the Orange Com-

pany, New York. Price 50 cents net. It can be secured through the Cana-dian Dairyman and Farming World.

A bill has been introduced into the Ontario Legislature to give townships councils the power to pass by-laws exempting farmers' sons from statute

Harness, Hunter and Saddle Horses

The report of the Harness, Hunter, and Saddle Horse Society, presented at the annual meeting in Toronto, on March 10, expressed the opinion that the heavy horse is doomed to be replaced by electricity, or other power, while the military and the pleasure horse will go on forever. The efforts made by the various Jockey Clubs, were commended, and a hope expressed that a license fee as proposed, should be enforced, and the proceeds of such fees to go towards prizes for horse breeders. An objection was registered against the proposed legislation, limiting, without reference to The report of the Harness, Hunter, lation, limiting, without reference to the population of a place, racing to

the population of a place, racing to 16 days.

The following officers were elected for the year: Hon. Pres., W. Harland Smith; Pres., J. J. Dixon; 1st Vice-Pres., Alfed Rogers; Bod Vice-Pres., H. C. Tomlin; Sec-Treas, H. J. P. Good; Directors, Dr. W. A. Young, R. W. Davies, Thomas Crow, Thomas Relaton, Thomas Hodgson, V. S., Stark, W. E. Wellington and Dr. Oille, J. J. Dixon was elected representative to the Toronto Exhibition. The president, the secretary-treasurer, W. E. Wellington, and Dr. Oille, were appointed a committee to confer er, W. E. Weilington, and Dr. Oille, were appointed a committee to confer with the O. J. C., and the various Governments of the Provinces, and Dominion respecting thorough brea stallions, and urging that constitu-tional sundness be made an especial provision for all such animals.

Official Records of Holstein-Friesian Cows

During the period from January 26 to February 14, 1968, records for 123 crows were accepted by the American Holstein-Friesian Association. Unless otherwise mentioned, these records are for a period of seven consecutive days. They are made under the careful supervision of State Agl. Colleges and Experiment Stations, and their accuracy is vouched for by them. Three of it is wouched for by them. Three of the stations, and their accuracy is vouched for by them. Three of the stations, and their accuracy is vouched for by them. Three of the stations, and their accuracy is vouched for by them. Three of the stations are stationary to the stations, and their accuracy is vouched for by them. Three of the stations are stationary to the stations, and their accuracy is vouched for by them. Three of the stations are stationary to the stations are stationary to the stationary to the stationary that the end of our supply was in sight. A resolution was passed, calling upon the different Governments to overnments to great the stationary to the preservation of the forest many stationary that the sum of all the speeches was that the tend of all the speeches was that the stationary that the stationary that t During the period from January 26

193-4 lbs.; per cent fal, 3-23; fat, 12-864 lbs. Fourteen senior three-year-olds averaged: age, 3 years, 9 months, 17 days: days from calving, 29; milk, 49.1 lbs.; per cent fat, 3-43; fat, 12-856 lbs. Nine senior two-year-olds averaged: age, 3 years, 8 months, 4 days; days from calving, 99; milk, 3-2-4 lbs.; per cent fat, 3-38; fat, 12-856 lbs. Nine senior two-year-olds averaged: age, 2 years, 8 months, 4 days; days from calving, 99; milk, 3-2-4 lbs.; per cent. fat, 3-35; fat, 11-459 lbs. Seventeen junior two-year-olds averaged: age, 2 years, 0 months, 25 days; days from calving, 95; milk, 25-9; lbs.; per cent fat, 3-37; fat, 11-459 lbs. Seventeen junior two-year-olds averaged: age, 2 years, 0 months, 25 days; days from calving, 45; milk, 25-9; lbs.; per cent fat, 3-37; fat, 11-459 lbs. Seventeen junior two-year-olds averaged: age, 2 years, 0 months, 25 days; days from calving, 45; milk, 25-9; lbs.; per cent fat, 3-37; fat, 11-459 lbs. Seventeen junior two-year-olds averaged: age, 2 years, 0 months, 25 days; days from calving, 25 milk, 25-9; lbs.; per cent fat, 3-37; fat, 11-459 lbs. Seventeen junior two-year-olds averaged: age, 3 years, 0 months, 25 days; days from calving, 25 milk, 25-9; lbs. per cent fat, 3-45; fat, 11-459 lbs. Seventeen junior two-year-olds averaged: age, 3 years, 0 months, 25 days; days from calving, 25 days, 25 days from calving, 25 days, 25 days from calving, 25 days, 25 days from calving, 25 days from calv

reports will largely center on the sen-

The Canadian Forestry Association Convene

The principle was laid down at the The principle was laid down at the ninth annual convention of the Canadian Forestry Association, held in Montreal recently, that all hills, Montreal recently, that all hills, and plateaus, which are the continuous of the continuous continuous

the important announcement that the Dominion Government had de the Dominion Government has cided to set aside, as a permanent forest, the eastern slope of the Rocky Mountains. He stated that the Dominion Government had, through experiments, discovered that it was a cible to grow fruit, hearing trees. experiments, discovered that it was possible to grow fruit-bearing trees in the far north, in districts hither-to treeless and fruitless. He gave insurance that the Federal Govern-ment was doing everything in its power to preserve the forests. The people of Canada had been too prodigal with its wealth of forest, had been wasteful, extravagant and un-

minion Government to place an export duty on both pulpwood and pulp. This was passed.

The following officers were elected for the ensuing year: Earl Grey, Patron; Sir Wilfrid Laurier, Hon. President; Thos. Southworth, Toronto, Vice-President; A. H. D. Ross, Toronto, Secretary: F. Jacobs, Assistant Secretary Fr. Jacobs, Assistant Secretary The old Board of expition of Mr. R. Campbell, who replaced Mr. Southworth on the board, Invitations were received from Toronto and Halifax for the next meet

a week.

Interest in this issue of the official shortly near Lindsay.

Inquiries and Answers

Stable Manure and Superphosphate

phate

I saw recently in a farm paper that it was a good plan to mix superpheephate with stable manure and if for vegetables, and the same and the s

The Hog Proved False

The Hog Proved False
I purchased a larse, improved vorishire boar, 12 weeks old from a quebee
broeder, paying him 812, fob. for same.
He is about 7%, mouths old to-day, life will
to breed them to a serub boar in the
neighborhood, thun losing the use of a
fed and cared for, has had lots of exercise, and my neighbors think him a fine
clination, whatever, to serve sows. As
I shall be obliged to dispose of bim at
two ways, I wrote the breeder requesing that he refund the portion paid in
crosse of the price of pork. He sake that
paper and he will be guided by its opinlen Would you therefore, be kind enough
6. 4, Terreboune Co., Que.

14 is the general custom in purt. 4 travelous he general custom in pur14. Terreboune Co., Que.

15 is the general custom in pur-

It is the general custom in pur-chasing pure bred stock for the buyer to take all risk as to the breeding proclivities of the stock purchased, proclivities of the stock purchased, unless otherwise agreed upon at the time of nurchase. As the pig is still young, he should prove entirely sat isfactory as a breeder when the warm weather sets in. At any rate we do not think it fair to demand a rebate from the breeder.

Obstruction in Teat

One of our cowe which freehened about two weeks ago has gone wrong in one of come closed, and we cannot get any milk out of it. There is no fever or any hard impo in the udder or teat. Will you will not one of the come closed, and we cannot get any milk out of it. There is no fever or any hard impo in the udder or teat. Will you will not be used to be used to be used. So we will be used to be used to be used. So we will be used to be used to be used. Will a twin helfer call free any to be used to be used. The impression prevails, however, that a helfer call from undier these derountainces your opinion concerning this first the service of the control of the c

your opinion concerning this—f. 1., N.B.
There must be an obstruction of
some kind, either a growth, or a clot
of whey or blood. It is possible that
the introduction of a teat syphon
may remedy the trouble, but in all
probability an operation by a veterinarian with an instrument especially designed for the purpose, will be
lentiting nee didor any such instrument. If bething with hot water and
manipulation will not remove the obstruction, it will be better to employ
a veterinarian.

a veterinarian When twins are out of each sex, the female is called a "Free Martin," and it is generally supposed that she will not reproduce. It is hard to will not reproduce. It is hard to say in what percentage of cases this rule holds good, but it is not un-common for one to fail to breed, neither is it uncommon for one to breed regularly. It is not possible to say whether or not yours will breed. The only method of ascertaining is Worms in a Horse

State how many different kind of worn in a horse, and treatment for each? there any cure for indigestion in a horse—G. W. B., Ont.

There are three kinds of worms common to horses, viz., Bots, Pin Worms, and Round Worms. For Worms, and Round Worms. For Bots, two ounces of turpentine, in one and a half pints of new milk, given on an empty stomach, three mornings in succession, is as good a remedy as any. The treatment for Pin Worms is meerely local, by means of injections. First. give an injection to clear out the bowels, and follow it with one of salt and water, one oun of salt to one-half gallon of water. of salt to one-half gallon of water. A decotion of quassia chips may be used. For Round Worms, the treatment is to give on an empty stomach one-half dram tartar emetic, and one-half dram copperas; mix and give in feed three times a day, followed by a dose of aloes. Unless the indigesa dose of aloes. Unless the indiges-tion has become chronic, a change of diet, and the giving of laxative foods, will help. The specific treat-ment will depend upon the stage of the disease.

Experiments With Farm Crops

The members of he Ontario agri-cultural College Exprimental Farms, have for distribution throughout On-terio this year, material for experi-ments with fodder crops, rocts, grains, grasses, clovers and ferilizers.

grasses, dovers and ferilizers.
About 2,200 varieties of farm crops have been tested in the Experimental Dartment of the Ontario Agricultural Colleg, Guelph, for at least five years in succession. These consist of varieties from rearly all peris of the world, some of which bave does not be a few of the control of the co and are now being distributed free charge for co-operative experiments throughout Ontario. The following is the list of co-operative experiments in agriculture for 1908:

Three varieties of oats; three varieties of six-rowed barley; two varieties of two-rowed barley; two varieties of hulless barley; two varieties of spring wheat; three varieties of buckwheat; two varieties of field peas; emmer and small; two varieties of are acts. and spelt; two varieties of soy, so or Japanese beans; three varieties or Japanese beans; three varieties of husking corn; three varieties of mangels; two varieties of sugar beets for feeding purposes; three varieties of Swedish turnips; two varieties of fall Swedish turnips; two varieties of fall turnips; two varieties of carrots; three varieties of fodder or sliage corn; three varieties of millet; three varieties of sorghum; grass peas, and two varieties of vetches; rape, kale and field cabbage; three varieties of clover; Sainfoin, Lucrene and Burnet; four varieties of grasses; three varieties of fall beaue; three varieties of fall the party three varieties of fall beaue; three varieties of fall the party three varieties of fall three three varieties of vari four varieties or grasses; three varieties of field beans; three varieties of sweet corn; fertilizers with Swedish turnips; sowing mangels on the level and in drills; two varieties of early potatoes; two varieties of medium ripening potatoes; two varieties of grain production; three mixtures of grain production; three mixtures of graneses and clover, for in the office of the first 3T experiments and in the last two, is to be two rods long, by one rod wide, and that in late potatoes one rod square.

one rod square.

Each person in Ontario who wishes to join in the work may choose any

SHOE BOILS

Are Hard to Cure.

ABSORBINE

ONE of the experiments for 1908, and apply for the same. The material will be furnished in the order in which the applications are received, until the supply is exhausted. Each applicant should make a second choice for fear that the first could

not be granted. All material will be furnished entirely free of charge to each applicant, and the produce will become the property of the person who conducts the experiment.

C. A. Zavitz.
Ontario Agricultural College, Guelph



Perfection Seed and Grain Cleaner

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This machine won the Diploma—the highe award—at Toronto, London and Ottawa Fai in 1907.

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Six Ayrshire Bulls. 16 to 30 months old. Twelve Ayrshire Bull Calves, 2 to 6 months

ld. Female Ayrshires, all ages, One Exmoor Poney Stallion, price reasonab Apply to D. BODDEN, Manager, or HON. W. OWENS, Propriet Riverside Farm Monte Bello, Que

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IMPORTED AND CANADIAN-BRED Prize-winners at all the leading shows, hold the award of merit given by the Board or Directors of World's Fair, St. Louis, to the heeder of largest number of prize-winning Ayrshires at said Exposition. I am leaving shortly for Scotland and will be pleased to receive and attend to orders placed with me. R. R. NESS, JR. HOWICK, QUE., P.O. AND STATION

RAVENSDALE STOCK FARM Ayrabires, Olydesdales and Vorkshires One Yearling Bull, one Senior, and one Junior Bull Call for immediate disposal at bargain prices. Come and Helfers bred from heavy compression of the Arman Station, and immediate disposal and Canadian-bred. As all times. Imperied and Canadian-bred. F. K.X., Philipsberg, Oss. St. Armand Station, 50 miles from Montreal on G.T.R. Bell Telephone.

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THE CANADIAN DAIRYMAN AND FARMING WORLD PETERBORO, ONT.

TORONTO OFFICE: Rooms 506-507 Manning Chambers, 72 Queen St. West, Toronto.

TORONTO JUNCTION THE PLACE FOR THE WINTER FAIR

The Ontario Government, before placing a sum in the estimates for an addition to the Winter Fair building at Guelph, should have investigated the proposition to locate the fair at Toronto Junction. Recent developments have shown that many breeders, and others interested in the welfare of the show, are strongly in favor of making the change. The cattle sales at the Union Stock Yards the past two weeks, have demonstrated that the Junction will draw a crowd. Representative men were there from all parts of Ontario, and were outspoken in their desire to see a great at that point.

Toronto Junction possesses exceptional facilities for carrying on a show the Winter Fair at Guelph, is its can have but one effect. With a re- hear what those of our readers who of this kind. Both the C. P. R. and proximity to the Agricultural Cellege. duced supply of manure will follow are interested in this matter think of

of the very best. There is ample room for stabling horses, cattle, sheep and swine in large numbers, and it is the very best of the kind to be found anywhere. In addition to this, the Union Stock Yards Company is prepared to meet the breeders more than half way in the erection of a suitable arena for show purposes. The plans for this arena provide for the expenditure of \$100,000, of which the breeders and others interested, are asked to contribute \$40,000. In these plans are included lecture rooms, committee rooms, offices, and everything that goes to make up a successful educational and live stock exposition. The Union Stock Yards are within half an hour's ride from the centre of Toronto, electric cars running to within a block of the yards. Every visitor to the show is, therefore, assured of the best of hotel accommodation.

Contrast this accommodation for visitors, exhibitors and exhibits, with ly located there, some eight or nine that provided at Guelph. It will not compare with it for a moment. The Winter Fair building at the Royal City, is nothing more, nor less, than a burlesque on what the accommodation for a great national show should be. It is badly lighted, exhibits cannot be seen to advantage, the facilities for judging are poor, and visitors desiring to see the animals in the stalls, or pens, frequently have to tramp through filth and litter that would not be tolerated in any well- Toronto Junction proposition should, regulated breeder's stable. The educational facilities are below par. The lecture hall is noisy, hard to get at, this of the members of the governand poorly ventilated, and the less said about the hotel accommodation the better

And what does the Government propose? Merely to expend \$20,000 in enlarging this inadequate building. It would require several times that amount to make the facilities at Guelph what they ought to be. What is required is an entirely new structure, built upon up-to-date lines, and with a view to future expansion and growth. But no Government would be justified in expending so large a sum at Guelph, with the Union Stock Yards proposition before it. In our opinion, and it is the expressed opinion of a great many of our leading breeders and show men, the Government is not justified in expending even \$20,000 in patching up the accommodation at Guelph, without first giving due consideration to the facilities which Toronto Junction affords. The future of the Winter Fair is at stake. A mistake made at the present time would be fatal. What this country wants, and what our breeders desire, is a great national show, that would place our live stock industry in the front rank, advertise it abroad, and bring it into the limelight at home. In all sincerity, we claim that this cannot be done under national live stock show established the conditions now existing in the city of Guelph.

the G. T. R. have direct connection But is the argument sufficient to jeo- a reduction in the yield of our crops. this suggestion. Why do our On-

for loading and unloading stock is of this great national show? No one appreciates more than we do the splendid work the college is doing, and the advantage of having the staff closely ilentified with the Winter Fair. But the fair does not need to be located at the college door to obtain the full benefit of its services. It is only a short run from Guelph to Toronto Junction, and a slight expenditure of time and money would enable the staff to give the show the full benefit of their services at that point. As for the benefit the students receive from being able to attend the show, it would be greatly increased by having the fair located at a live stock centre, where market conditions, and all features of the trade, could be studied.

The offer of the Union Stock Yards Company, is a most generous What has Guelph done for the Winter Fair? A paltry \$15,000 was contributed by the city to the building fund when the show was permanentyears ago, and it was hard work to get that. Contrast this with the offer of the Union Stock Yards Company to contribute \$60,000 towards the erection of a \$100,000 arena, and to give the use of their yards and stable accommodation, for show purposes. This offer is worthy of the mature consideration of any government. Before expending any more money in patching up the admittedly poor accommodation at Guelph, the at least, be carefully looked into The Breeders and stockmen expect ment and will hold them to strict account for any mistake made at this juncture in the Winter Fair's history

THE CLOVER SEED PROBLEM

In a season like the present one. when clover seed is scarce, and the price almost prohibitive, considerable land that otherwise would and should be seeded to clover will be neglected in this regard. This is a great mistake. If the practice is followed long the result will be poorer crops, and finally the land will become so run down that it will be almost impossible to raise profitable crops.

The question of seeding to clover is of greater importance than ever this Owing to the high price of all kinds of grain, together with the great demand for hay and straw, large quantities of these feeding stuffs, formerly fed, have this past season, been sold off the farm. Particularly has this been true of straw. Farmers, who never before sold a load of straw from their farms, have been induced by the prevailing high prices to sell all the straw they could possibly spare. In line with this policy the amount of live stock kept has of supplies used in maple sugar makbeen cut down wherever practicable. It is apparent, therefore, that farmers makers by securing laws that protect will have less manure to apply to their them from the competition of adul-The strong argument for retaining fields this spring than formerly. This terated products. We would like to

We must take action then, to coun terbalance this reduced supply of manure. In no way can we do it more effectively than by seeding a good portion of our farms to clover. Clover is the greatest of soil renovators. It loosens up the soil and places it in a good mechanical condition. seems to add something to the soil that nothing else can do. It not only adds to the supply of nitrogen in the soil but greatly increases the amount of humus as well. Do not let the high price of clover seed, therefore, prevent you from seeding any of your land that should be seed ed. The money thus expended will be returned many times over by the better crops that will ultimately be raised.

IS THE DRAFT HORSE DOOMED?

The statement made in the annual report of the officers of the Harness, Hunter and Saddle Horse Society, that the heavy horse is doomed to be replaced by electricity or other power need not be taken seriously. In so far, at least, as Canada is concerned, the possibility of such a condition of affairs, is far distant. There is already planned in Canada and under construction enough railway building to provide a market for heavy working horses for years to come. And this is merely the beginning. As the West developes and the "hinter land" of Ontario and Quebec is opened up, railway construction will increase and with it demand for horses of the draft type, not the military or pleasure horse, valuable though he may be.

It will be some time also before the heavy draft horses will be out of the running in other lines of activity. For farm work and for heavy teaming in towns and cities he will be wanted for some time to come. With the kind of winter we have had this season it is questionable if electric or other motive power will ever come into general use. Where snow piles up several feet high on the country roads and in the city streets as well, the horse is the only motor power that can be utilized to advantage. Motor power is not of much account in a snow bank. Even the powerful Mogul engines of our railways are powerless against it. But, the intelligent horse, with proper guidance, will get through some good sized banks of snow, and haul our sleighs with decent loads on them after him.

More maple sugar and maple syrup are produced in Ontario than most The maple areas people suppose. are so scattered there is no means of determining their extent. In the State of Vermont, the sugar makers have a strong association which has done excellent work. This association holds an annual convention and occasional local meetings. There is ap exhibition of maple products and The association has helped the ing.

tario and Quebec sugar makers not cooperate and form an association for the purpose of advancing their mutual interests?

Rural Delivery Favored and Opposed

Opposed
Readers of The Canadian Dairyman and Farming World are evidently much interested in the series of articles we are publishing in regard to Free Rural Delivery in the United States. Some of our subscribers who have missed copies of their paper have written requesting that the missiffs numbers shall be sent them in order that they may not miss any of the articles in the series. One man wrote that the bundle of papers for his Post Office had not arrived and that they were all waiting anxiously for their copies.

were all waiting anxiously of copies.

Some of our readers are not in favor of Rural Delivery. Mr. R. W. Ralsten, Postmaster at Amherst, N.S., is one who is opposed to it. In a letter received from him recently, Mr. Polston and Ralsten said:

"I am following with interest the discussion now going on in the col-umns of The Dairyman and Farm-ing World for and against free rural mail delivery in Canada. I am against this scheme. It will entail an enor-

ing World for and against free rural mail.delivery in Canada. I am against this scheme. It will entail an encomous financial borden on the country scrupulous politician will be able to forward his ambitions to the serious detriment of the country. The honest man, who wishes the country well and trys to do the right thing, will not have a chance with him.

"I am against it because it tends to centralize. The country store and post office are factors in the life of every community. Prosperous towns have grown up all over this continent of the country will be able to the contralize. The country store and post office are factors in the life of every community. Prosperous towns have grown up all over this continent "country store." the post office," "the wayside hotel," and the small factory. I am against it because it robs the farmer's child of a certain educational advantage. A trip to the post office after the day's work or a call on the way to or from school, gives the child a certain amount of insight along business lines, and assists in fitting him or her for citizenship. If the government wants to do anything really fine, let them nation-office a telephone office, put the charges in the reach of all, place it on the same footing as the postal service, i.e., you must pay the rate or your letter won't go; likewise, if you take i.e., you must pay the rate or your letter won't go; likewise, if you take the receiver down you must pay the toll."

Still another of our readers, in the person of Mr. E. J. Dunbar, of Melbourne Ridge, Que., is opposed to rural delivery. He has asked us the following pointed question majority of Canadian farmers will allow themselves to be taxed in order that a small minority, who live on the rural mail routes, can have their mail delivered to them everyday?"

FARMER'S DON'T WANT IT

Mr. John Eldridge, of Hepworth, Bruce County, claims that farmers do not want the service. He says:

"I have read your articles on Rural Mail delivery for the last month and as you wished to hear from the farmers, I have come to the conclusion that the farmers do not want it. In the first place the farmers never asked for anything of the Farmers. In still the most of the conclusion that the farmers are capable of knowing what their needs are and are not slow in asking for anything that is necessary to their good. The present mail service is perfectly satisfactory. Bost offices are in every village and store and some in private houses all over the country. We have to go to the

stores and railway stations two or three times a week with butter and over provision or or the state of the provision of the state of the provision of the state of the provision of the state of the st

WHAT THEY ARE DOING IN EUROPE Others of our readers are in favor of Rural Delivery. Mr. David Howse, of Niagara-on-the-Lake, writes: "Why not suggest to Hon. Mr. Lemieux that he should introduce parcel post in conjunction with Rural Delivery? In conjunction with Rural Delivery? In Germany, you can send an 11 pound parcel, 50 miles for six cents, and throughout Germany, Austria and Hungary for 12 cents. The profits on this and other such monopolies, go toward the reduction, not the increase of taxation.

VIEWS OF OTHERS WANTED
We will be very much surprised if
Mr. Eldridge does not find that there
are a great many farmers in this
country who want free rural mail delivery and they are not light headed
men either. For instance, Mr. T. A.
Thompson, of Almonte, told us recently than he lives four miles from
office and frequently receives seven
and eight letters in a mail. On differoffice and frequently receives seven and eight letters in a mail. On different occasions he has been handed his mail just as he was leaving for home. On reaching home he has found that some of the letters required to be answered immediately, and has had to hitch up and drive back four miles to town. Mr. Thompson states that section who are in the same position. Scores of similar cases might be cited. There is a general impression that

There is a general impression that the expense of rural free delivery will the expense of rural free delivery will be ruinous. In this connection we would like to draw the attention of our readers to the fact that this side of the question has not been dealt with yet in the series of articles that we are publishing. When it is soon to be a simple of the property of the longistic out. Our series of articles will run for two or three months yet. In the meaning we hove that more In the meantime we hope that more of our readers will make their views known. This is probably the most important question that is before our canadian farmers. We want the views of those who are opposed to rural delivery as well as of those who favor for those who favor those who favor the control of the

Canada's Heritage

Canada's Heritage

Before the agricultural committee at Ottawa the other day Mr. Æ. E. Young of the Department of the Interior gave some interesting figures as to she possibilities of grain growing in the west. If the present wheat area of the west yields 100,000,000 bushels it was no great stretch of imagination to look for a future wheat production in this country of 1,300,000,000 bushels worth three times the total foreign trade of Canada and an anada. In summer it is just as warm in Fort Simpson on the Mackenzie river as it is in other parts of the Dominion. Cabbage, lettuce and potatoes can be grown successfully within 14 miles of the Artic circle. Owing to the long days in summer growth is rapid. Wheat grown last year at Fort Simpson in latitude 62 ran 62 pounds to the bushel and was of fine quality. The Southern boundlarity. The Southern boundlarity is to the produced for the produced 64,000,000 bushels of wheat and 10,000,000 bushels of bushels of wheat and 10,000,000 bushels of oats.

Sound Sense

That's all you need. Considering the fact that the

De Laval Cream Separator

is almost universally copied or imitated-what do you gather from that fact?

Considering the fact that the

De Laval Cream Separator

has been in use for thirty years by dairymen all over the world, under every possible condition, and proven unequalled, what do you infer from that record?

Considering the fact that the

De Laval Cream Separator

has been awarded highest prizes at every exhibition where shown-including all the great World's Fairs since 1879-what do you deduce from this universal recognition by authorities?

Considering the fact that the

De Laval Cream Separator

is in use by 98% of the Professional Butter-makers of the world, what do you understand that to mean?

Considering the fact that the

De Laval Cream Separator

New Models-10 sizes and capacities-are as far ahead of the old styles, as the old styles are ahead of imitating and competing machines.

Considering these facts

What else can you do than get the genuine De Laval Cream Separator?

CATALOG FREE

173-177 WILLIAM STREET, MONTREAL

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

Creamery Department

s to this department, to ask questions on ters relating to butter making and to sug-subjects for discussion. Address your irs to the Creamery Department.

The Preparation and Care of Culture

Concluded from last week

Concluded from last week
Mistakes are often made in taking
too long a time to beat the milk.
The cans are placed into a tank or
harrel, the steam turned on and let
boil for several hours without stirring, which often gives the milk a
burnt flavor, also too long a time is
taken to cool them to 60 or 75 degress, from 185 or 180 to 100 dehrees. I do not think any serious
trouble will start, but I am of the
opinion that where cultures are left
standing at a temperature anywhere opinion that where cultures are left standing at a temperature anywhere from 100 to 70 degrees for a long time uncovered before being inoculated with the pure lactic acid germ.
the undesirable germs have every
chance for reproduction. If makers
would provide themselves with a good would provide themselves with a good pasteurising box, also cans as pre-viously described, and have the water heated somewhat before placing the cans of milk in the box, it would not take much time for pasteurising, and better results would be obtain-ed I have found that where the

and better results would be obtained I have found that where the
making of cultures involves a lot of
time and work, it is often done in
a very haphasard manner.
Good milk selected at the weight
porch, or the selected at the property
of the selected inmediately to 85 or 70 degrees, should
give us a medium to be ready for
inoculation. We find it necessary to
propagate the culture several times
before using, and sometimes we find
the starter with not the best of flavor and needing further propagating.
A possible explanation is, that each
organism must become sadated to the
medium in which it grows before it
gives its characteristic door or flavor
in that medium. The cultures, as sontcontain the organisms in a more or
contain the organisms in a more or contain the organisms in a more or less dormant condition. These or-ganisms regain their vigor and in-crease their acid-forming properties after several propagations.

No hard or fast rule can be laid down to the temperature or the amount of mother culture to be used. amount of mother culture to be used. It will depend somewhat on the length of time from making till using, and the temperature at which it is held, but no more should be used than will give the desired acidity. By testing the acidity from day to day, the maker will sook now how much mother culture to add to produce the amount of acid required when ready for use, but I would prefer using a little more mother culture and growlittle more mother culture and grow-ing it at a low temperature, than to use less culture and hold it at the to use less culture and noid it at the higher temperature to ripen. A smoother texture and better flavor will be secured, and there will be less danger of over-ripening.

Liquor and Tobacco Habits

A. McTAGGART, M.D., C.M. 75 Yong Street, - Toronto, Can. References as to Dr. McTaggart's profess-tal standing and personal integrity permitted

Sir W. R. Meredith, Chief Justice. Hon, G. W. Ross, ex-Premier of Ontario, Rev. N. Burwash, D.D., President Victoria lears.

Rev. Father Teefy, President of St. Mich-'s College, Toronto. s College, Toronio. Right Rev. A. Sweatman, Bishop of Toronto Rev. Wm. McLaren. D. D., Principal Knox

College, Toronto.

Dr. McTagart's Vegetable Remedies for the Liquor and Tobac o Habits are healthful. No hydodermic injections, no publicity, no loss of time from business and a certainty of cure. Consultation or correspondence invited.

We find that when a culture has from .05 to .75 and not over .80, it gives the best results.

We are reminded that the underripening of starters is just as important to guard against as overripening of starters is just as important to guard against as overripening of starters is just as important to guard against as overripening. Frof. McKay tells us that about the time milk begins to turn over the control of the control o

Little oversights are generally the beginning of serious mistakes. The time has come when we must study our cultures more, to know what to lo with them, and what they will do for you. If you get a good culture or a poor one, you must know just what you are going to get from the sults you are going to get from the proof and the proof of the p

used, has been found a benefit to the dairy industriant paper was prepar-ed by Mr. E. H. Hart, Dairy In-structor, Ingersoll, Ont., to be read at the convention of the Western On-tario Dairymen's Association Owing to a sovere cold, Mr. Hart was unable to read the paper.

Cheese Exporter's Views on Whey Butter

Whey Butter

Editor, The Canadian Dairyman and Farming World.—We cannot understand how patrons can be temptted into the manufacture of "whey" butter, unless they want this butter produced for their own table use. No one in the cities was the produced for their own table use. No one in the cities was the constant of the control of the cheese, and therefore the tactory might be compelled to brand its cheese "skims" in large letters, according to law. In our opinion, any cheese factory that manufacture, and conding to law. In our opinion, any cheese factory that manufacture, and personally we should be afraid to buy cheese from any auch factory. We may say also that we received cheese for a part of lats season from a factory whose output we may say also that we received cheese for a part of lats season from a factory whose output we may say also that we received cheese for a part of lats season from a factory whose output we may say also that we received cheese for a part of lats season from a factory whose output we for years, and we were carprised to find the quality had deteriorated and

FRICTIONLESS CREAM SEPARATOR The Bowl Spins on the Balls Just Like a Top.

By the ingenious arrangement of the three balls of our bettom Frictionians Bearing, the lowel of the "Empire" is always kept perfectly balanced, because the special of the spinion less between the three balls and automatically adjust itself to the proper centre. The lowel upon on these balls plat the atop, only at a speed far vibration is one reason why the "Smitter" is the assets running peach. The absence of whether the arrange of the spinion of the spinion is considered and a training and a speed far and any warr that occurs is taken up by the point of the spinion is removable, it can readily be enswed, and at triffine cost. As the point of the spinion is removable, it can readily be enswed, and at triffine out. As the point of the spinion is the reason can. In fact, we also withy constructive the "First precious butter fat goes into the cream can. In fact, we also withy constructive the "First precious butter fat goes into the cream can. In fact, we also withy constructive the spinion of the

The Empire Cream Separator Company of Canada, Limited, Western Office, Winniped

The LOW BUTTER CUTTER Makes Accurate Prints



The adjusting wires can be set to a ticety in an instant by simply turning humb screws writtout locating frame wires. The vertical cutting frame wires to not vary i/gosth of an inch apart, and an't get out of place.

can't get out of place.

Besides being very accurate the Low
Butter Cutter is extremely rapid, simple
and easy to operate. Four turns of a
cranh, and the entire box is cut and
ready to wrap. One man can cut HARD
butter. We furnish the strongest looped
wires made. Get our new illustrated
folder and learn more about this Ideal
machine for Butter Dealers. Address

D. DERBYSHIRE & CO. BROCKVILLE, ONT.

The Best Butter Cutter Made Exclusive Canadian Agents

did not understand it until after we had found that the reason was that they were making "whey" butter.

A. A. AYER & CO., Limited. Montreal, Que.

Cheese Factories and Creameries of Canada

of Canada.

The finest piece of work that has been turned out by the Dairy Division of the Dominion Department of Agriculture has just come to hand in the form of severall maps showing the cheese factories and creameries of Canada. The work is high class and very complete. These maps should prove extremely valuable. Not until one sees them is it possible to gain any idea of the immense number of factories in Quebec and Eastern Ontario. The factories are shown on the map The factories are shown on the map in such a way that it is possible to tell the cheese fatories from the butter factories. The Dairy Division is to be congratulated upon this piece of

Go Slow on Whey Butter

Dairymen should go slowly in the development of the whey butter busi-ness. In Eastern Ontario there is considerable agitation looking to the formation of companies for the manu-facture of this product. Our advice formation of companies for the manufacture of this product. Our advice is to wait awhile until the question has been thoroughly investigated. While one or two individuals claim to have made a success in this line, it has not been clearly established yet that the business is a feasible or a profit-

able one. The making of whey butter is not a new idea. Some years ago it was a constant of the second of the secon

BAIRD'S

used in the largest Cheese Factories in Canada.

For sale by the large Dairy Supply houses in Canada.

Oheese-factory and Creamery Repairs of all kinds

WM. BAIRD - Woodstock, Ont.

USE ONLY THE BEST



is the STANDARD article READY FOR USE IN ANY QUANTITY.

For making soap, softening water, removing old paint, disinfecting sinks, closets, drains and for many ether purposes. A consquals 20 pounds SAL SODA.

SOLD EVERYWHERE.

E.W. GILLETT COMPANY TORONTO, ONT.

der ordinary market conditions? It has not the keeping qualities of the genuine article and would have to be consumed about as soon as made.

Cheese Department

scussion.

Who is Right?

Ed. The Canadian Dairyman and Farming World.—In your issue of February 26, Mr. Gearge H. Barr, while addressing a convention of while addressing a convention of dairymen at Cowansville, Que, is quoted as saying that Ontario cheese was better than Quebec cheese, and that one defect in Quebec cheese was its loose and open texture. In nine cases out of ten this looseness and openness was the fault of the maker. It is caused by salting the curd too early in the process of manufacture, or to leaving too much moisture in the curd.

or to leaving too much moisture in the curd .

While speaking at the Western Ontario Dairymen's Convention, held in Woodstock in January, Frofessor Dean, of the O. A. C., makes the statement that openness in cheese was not a defect but only a whim of the buyers, (or words to that defect), also that makes was not a defect but only a whim of the buyers, (or words to that defect), also that makes was not a defect but only a whim of the buyers, (or words to that defect), also that makes was not a defect but only a whim of the buyers, (or words to that defect), also that makes was not a defect but only a whim of the buyers, (or words to that defect), also that makes was not a defect but only a whim of the buyers was not a defect but only a white buyers which was not better that the buyers was not a defect but only a white of the buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect but only a white buyers was not a defect buyers. also that makers were stirring their

also that makers were stirring their curds too dry, and that they were holding them too long before salt-ing, thereby losing butter-fat.

Mr. Barr and Mr. Dean are con-sidered to be experts in the manufac-ture and judging of cheese, men who have both bear dairy exheel but the ture and judging of cheese, men who have both been dairy school instruc-tors in Western Ontario, and as such, young members often look to them for advice. If we are to have a uniform grade of cheese made in Ontario we cannot follow the teachings of both these teachers. Will some old cheese makers express themselves on cheese mestion. this question. Signed, Young Cheese Maker.

More Information Needed, on Whey Butter

Editor, The Canadian Dairyman and Farming World.—It is unwise for cheese factories to incur the expense cheese factories to incur the expense necessary to prepare for the manufacture of whey butter without having more accurate information than they have in regard to the net profits which may be derived from this branch of dairy work. There is no accurate information as to the real quality of whey butter. Much has quality of whey butter. Much has been made of the fact that a sample

......... DOES THIS INTEREST YOU?

A prominent physician, famous for his success in the treatment of kid-ney and bladder diseases, attributes a great deal of his success to the follow-ing simple vegetable prescription:— One ounce Fluid Extract Dandelion;

One ounce Compound Salatone; Four ounces Compound Syrup Sarsaparilla;

Mix, shake well, and take in tea-spoonful doses after each meal and again at bedtime.

Your druggist can supply the ingre-dients, and the mixture can be pre-pared at home at very little expense.

This, the doctor says, acts directly on the kidneys, assisting them to fil-ter the poisons from the blood and expel same in the urine, at the same time restoring the kidneys to healthy, normal action

We feel that a great many readers will be pleased to learn of this simple prescription, and knowing the ability of the physician whose formula it is, we do not hesitate to recommend it to any sufferer.

of this butter was given first prize in competition with one other exhibit of creamery butter at an exhibition in Eastern Ontario last fall. It is not generally known that the judge, and others who examined it, said that the creamery butter was a very poor sam-

oreamery outer was a very poor sample.

It is likely that if the manufacture of whey butter continues that there will be a demand for legislation compelling the branding of whey butter as such. It may be necessary to do this such it may be necessary to do this creamer's butter butter. Even of Camadian continues that the such it is an important consideration. In view of the lack of information on this subject, I propose, as early as possible this coming spring, to make some careful experiments with a view of determining the probable quantity of whey butter which can be made from a given quantity of normal

quantity of whey butter which can be made from a given quantity of normal whey and to make careful tests as to the quality of such butter, including composition, flavor and keeping qual-

My advice to the factories would be, not to rush into this matter until it has been more carefully investigat-ed. Those engaged in the manufacture of cheese sometimes forget that they are indirectly interested in the success or failure of the buttermaking industry. Anything which will injure to some extent the industry of cheese-making. making.

making.

There is another phase of the question which is important. The average cheese factory is not every suitater and I am afraid that the conditions would be such as to make it
very difficult to produce a satisfactory article of butter of any kind. The
plan of sending the separated whey
crean from the factory to a central
point for buttermaking, is a better
one than to have the butermaking
done at the factory. done at the factory.

I would remind dairymen, however,

I would remind dairymen, nowever, that the making of whey butter is not a new thing as many seem to think. It has been tried at several places during the last 20 years, but for some reason or other has always been aban-

J. A. RUDDICK,

Dairy and Cold Storage Commissioner.

Makers and Patrons Should Co-Operate

Makers and Patrons Should Co-O-Operate

There should be co-operation between the makers and the patrons of factories. In fact this must be true all along the chain of the dairy industry in order that we may accomplish that which is desirable. The link of the dairy industry in order that we may accomplish that which is desirable. The link of the dairy industry in order that we may accomplish that which is desirable. The link of the dairy industry in order that we may accomplish that which is desirable. The link of the dairy industry in the dairy in the dairy industry in the dairy in t

AS MUCH WITH

That's the pleasant surprise that awaited many a farmer when he got a U.S. Separator to

skim his milk. The "old way" meant little profit-much work. Now they say it's "just the other way about"-Big Profits-Little Work. Your money is in the cream. Why not get it all out? You can. The Delbi, Minn., Nov. 9, 1966

My

CREAM SEPARATOR HOLDS WORLD'S RECORD FOR CLEANEST SKIMMING

and in many cases gets double the cream out of the milk that you can get the old way without a U.S. Separator. And the cream will be smoother and make richer, finer butter and cheese-worth a higher price.

HOW AND WHY?

That's just what we want to make plain to you. new, illustrated book clearly explains the "How Why?" Please send for free copy. You can easily why the U.S. pays the best because Catalogue 100 shows.

VERMONT FARM MACHINE CO. BELLOWS FALLS, VT., U S.A.

Distributing Warehouses in Canada at Hamilton, Sher-brooke, Winnipeg and Calgary, but address all letters to the Head Office, Bello 's Falls, Vt.

A YOUNG CIRL CAN RUN

ba every year, because the cheese makers do not know how to make makers do not know how to make good cheese. Some of our factory owners, however, will search all over the whole Dominion for the cheapest man they can find, and they get cheap work in return. These me waste more than three times their waste more than three times their waste more than three times their value, and are usually only retained one season. I have seen good milk, as good as ever was taken into a fac-tory, spoiled, just because of the in-competence of the maker.

Move Slowly About Whey Butter

Editor, The Canadian Dairyman and Farming World,—Some experiments in the manufacture of whey butter have been carried on at Kingston Dairy School this winter, but our investigation has not been sufficiently prolonged to warrant us in coming to any definite conclusion further than it would appear that in the laverage factory practice, from 5 to average factory practice, from 5 to 6 lbs of butter are likely to be obtain-6 ibs of butter are likely to be obtained from one ton of whey, and with
proper care and attention in the manufacture of the butter. This butter
is of very good quality for immediate
use, but there is a suspicion that it
is lacking in keeping qualities. My
advice to factorymen who have not
already the equipment for making
ing into the business grounding in the business grounding into the business grounding into the business including in the known about it. I would suggest that
experiments be conducted this season
in some combined factory, to ascerin some combined factory, to ascer-tain the cost of production, keeping qualities, etc., under the average fac-tory conditions before any definite conclusion is arrived at.

G. G. PUBLOW, Chief Instructor and Sanitary Inspector. Kingston, Ont. .

> Cheese factories for sale should be advertised in our For Sale column.

Mrs. Burton Preston's

R. BURTON PRESTON and his wife, sat on opposite sides It was rather high, and she was ob of the table; a student lamp in the centre gave light for this. both. Mr. Burton was read-ing the news from his agricultural journal, and his wife, with pen and ink, and paper, was about to begin a

letter

letter.

"Well, which shall it be?" his wife asked. She had written this, "Woodstock, Ont., January 3, 1998. Dear Aunt —," and waited to know which aunt's name she would fill in. She tipped her pretty young head from side to side, viewing her penmanahip with a satisfied arr.

"Which ever one you want. loesn't make any difference to me

doesn't make any difference to the, he replied with unconcern.
"But, Burton, I want to invite whichever one you want."
"And, as I have never seen eith-

about them. You ought to know which you would like to see most."
"Which do you think would like "Thew wor!"

They are both interested in home missions. I want them both to come in home missions. I want them both to come some time. I want them to see how nicely we are situated. If it wasn't for that foolish quarrel, I'd have them both come to the meeting now. It is fifteen years since they have seen each other or either heard directly from the other. It's a shame for two each other or each other or either heard directly from the other. It's a shame for two old people to act so! They would nev-er forgive me, though, if I brought them together by any underhand means. And I'm almost afraid to invite one for fear the other will hear of it, and be offended."

She waited for her husband to say omething. He had apparently just something. He finished an article, and was turn his paper to find something more "Burton!" she cried. "Put do was turning

"Burton!" she cried. "Put down your paper, and help me to decide." "Better not invite either," he said. "Better not invite either," he said.
"But, I'm going to!" she declared.
"I am going to have one come now
and make us a visit, and the other I
shall invite later. I want them to see
our home, and to meet you and get
acquainted. Now, tell me which one
I am to invite."
She dimed. b.

She dipped her pen into the ink for

She dipped her pen into the ink for the third time since writing the last word. He east his eyes ceilingward. "Let me think," he murmured, fambling in his pecket. Then draw-ing forth a penny he flipped it light-ly. Darting a quick look at it, as it fell on the table, he said decisively, "Well, Bondieva!"

"You think you would like most to see Aunt Boadicea?"she repeated, and wrote the name with entire satisfac-

For an hour and a half, Burton For an hour and a half, Button Preston read his paper without any-thing further to disturb, except his wife's noisy pen. Then she straight-ened up, examined the half-dozen sheets of note paper, glanced at the clock, and cried, "Why, Burton, it is after ten; I shall have to put this away and finish it to-morrow."

away and mish it to-morrow.

The next evening after tea they drove up to town. Just as they were about to start, Mrs. Preston exclaimed, "Oh, I mustn't forget my letter," and ran to the clock shelf for it.

"Have not a transfer. "Have you a stamp, dear?" she ask-ed, handing the envelope to her huswho forthwith stamped it and

placed the letter in his pocket.

The business at the Woodstock post-office is not large enough to give the custom for people to go for their mail in the evening. Mrs. Preston withdrew her hand from her husband's arm as they entered the building, and,

ibis.

"We have 50t something, Burt," she said, turning to him with a pleased expression as he came up.

There were two letters and a circular for her husband and one letter for herself. They withdrew a litter four the 1sth of those coming and going, for lat, Preston wished to examine his mail at case. His wife improved the opportunity to read the second letter when there came a wild clutch at his arm and a gasp from his wife. from his wife.
"Burton, have you mailed that let-

ter?"
"What letter?" he asked, startled by

"What letter?" he asked, startled by
the expression on her face.
"My letter! To Aunt Boadicea
Bumpstead!"
"No, I guess not. No, here it is,"
and he handed it to her. "Why, what
is the frough of the startled of the startled of the startled of the startled covering the startled of the st ea cannot go now.'

"Why?" she echoed. "We can't

"Why?" she echoed. "We can't be them both at once!" Her husband still looked blank. "On account of that quarrel, Burt!" "Oh! oh! I had forgotten the quar-

Mrs. Preston procured a postal card at the stamp window, and wrote it at the little desk which is placed against the wall for the convenience the public.

As they were leaving the post of-fice, they met their minister, Rev. Samuel Knox, and stopped a moment for a word with him. Mrs. Preston for a word with him. Mrs. Preston told of the expected visit of her aunt, and requested him to call. He said that he would be very happy, and with a word more they parted.

The wife was absorbed in thought for some time after their return. At last she declared: "It's too bad to lose all that letter! It was a real nice there was so much in it. Aunt one. Boadicea will never know what she

missed

"We need not waste the stamp at least," said her husband; "and I should think there would be much of the letter you might use at another

Maybe I can," she replied brightening, and rose to get the letter.

He heard her fumbling about in search of it, and one or two smoth-red notes of dismay came to his ears.

At last she reappeared.
"I can't find it anywhere "Burt!"
she murmured. "It can't be that I
mailed it! No; I know I didn't. But
I've lost it. It isn't anywhere about. I must have lost it on the way home But I'll look again."

She disappeared. 'Was there anything in it about

"was there anything in it about me?" he called.

From the depths of somewhere came the muffled reply: "It was al-most all about you."

When she came back there was a look of tears in her face. The letter was not found.

few wrinkles in her face. Her hearing was defective, however, and she spoke in feeble tones. Gray predom-inated in her hair, which was combed very plain. She was warmly welcomed by the young married couple, and they took much pride in showing her about the house. The many little conveniences were long dwelt upon, and made the most of. The grievances of house keeping were talked about, and Aunt Nathalie and Edna compared notes, much to the advan-

compared notes, much to the advan-tage of the nicee.

During the day, when Burton Pres-ton was away at his work, the two discussed him. Edna talked about him with all the affection of a fond young wife. She spoke of his faults with the air of pride; they were so manilie. Aunt Nathalie said that she liked him; she could see that he was a good man.
"Do you know," she said in he

"Do you know," she said in her feeble tones, "I like the way he asks the blessing at the table!" There was something in this that smote Edna, and she inwardly determined that Edward should keep it up after Aunt Nathalie went back.

Th evening before the opening of the missionary meeting the young cople were invited to a small gatherpeople people were invited to a small gainering. Edna had about given up going, for she felt that it would not be courteous to leave Aunt Nathalie. But the came to her aunt's ears and she would ing at home. She was not afraid to stay alone; and rather insisted on the thers going.

It was perhaps an hour and a half

It was perhaps an hour and a half after they had gone that a carriage drove up and stopped before their house. Aunt Nathalie's infirmity pre-vented her from hearing it and also the rapping which soon followed at the front door. But when the bell rang she gave a little start and rose to answer the summons. to answer the summons.

to answer the summons.

"Good evening," she said, on opening the door; and then seeing that as woman was standing there, continued:
"Won't you walk in?"

"Does Mrs Burning there, continued:
"Won't wou walk in!"

"Does Mrs Burning there, continued:
"Mo 'un' said, Aunt Nathalie, placing her hand back of her ear and turning her head so as to hear better.
Then, in answer to the question repeated in a louder tone, she said:
"Yes,m."

The stranger had stood with satis-"

The stranger had stood with satchel and umbrella in one hand, and now she stooped to pick up a box and bundle which she had set down to ring the bell.
"I am Mrs. Preston's aunt," she in-

"I am Mrs. Preston's aunt," she in-formed, as she entered the house. "Are they at home?"
"No'm. They're out spending the evening," Aunt Nathalie replied, To herself she mused: "Sakes, I didn't know as he had an aunt; leastway: on that was a-comin' now."

"I guess you'll surprise 'em," she continued aloud. "Let me take your things."

"No. She was expecting me. a letter from her," Aunt Bo Aunt Boadicea answered.

There was some resemblance be-ween the sisters, but it was not striking, though before the weak was out they had been told a number of times that they were perfect pictures of each other. Aunt Boadicea was larger and younger. Her hair was about as gray younger. Her hair was about as gray as the others, but she wore it banged and frizzed. She wore nose glasses, but on her arrival had mislaid them.

Aunt Nathalie felt that the duties of hostess devolved upon her in the absence of the others, and acted accordingly.

getting, talked so low that the other

barely made out what was said.
"You'll let me make a cup o' tea
for you," Aunt Nathalie said.

for you," Aunt Nathalie said.
"Thanks, a cup of tea will be a great plenty."
Aunt Boadicea disposed herself in an easy chair in the parlor, and be-

an easy chair in the parlor, and began to take notes.

"Seems to me Edny's putting on a good deal of style," she reflected. "She didn't write that she wasn't doing her own housework. Her girl seems older than common, that work out. I'd hate to yell everything to her that I said. She seems sensible; young girls ain't always. She knows how to treat folks polite. I don't see what I've done with my glasses!" She rose and examined the cur-tains as best she could with her nak-ed eyes, and the dim light, stooped to eyes, and the dim light, stooped the carpet, then felt of the upholstery. "Edna seems to have done well "se I'd hate to yell everything to that I said. She seems sens

"Edna seems to have done

far as fine things goes," she com-mented," glancing at the pictures on the walls, and taking in the other furnishings of the room.

Presently Aunt Nathalie reappear-

ed. She made a little noise in her throat, and began differentially: "Ex-cuse me, what may I call your name?"

"Bumpstead, Miss Bumpstead," re-plied Aunt Boadicea in her ordinary tone: "beg pardon, did I understand MISS?"

"Yes, I said Miss Boadicea
"Well," continued Aunt "Yes, I said Miss Boadiesa."
"Well," continued Aunt Nathalie,
turning and leading the way, "if you
will walk out now, Miss Pumps,
your tea is ready."

Aunt Boadicea did not notice the mistake that had been made in her mistake that had been made in name, and she immediately ros once, and walked out. Besides tea, which would have been a tea, which would have been a big plenty, there were some biscuits, cold chicken, and celery, and a dish of blackberries and cream, and full jus-

blackberries and cream, and full jus-tice was done to it £11.

Later the two sat in the parlor, silent for the most part, waiting for the coming of the young people. Aunt Nathalie was overawed by the style which the stranger affected, and so add but little, while Aunt Boadicea refrained from talking because she understood that familiarity will fill and the stranger of the strang help was countrified, and she did not wish to show her rusticity.

wish to show her rusticity. Edna came to her husband quite early, and said she thought that they ought not to stay longer; Aunt Nathalie was home there alone. She had been real good to excuse them, and let them come, and it would not be right for them to take advantage of

As they turned in at their gate, the

As they turned in at their gate, the partly drawn curtains gave a glimpse of the parlor, and Edna caught a glimpse of two forms.

"Why, Aunt Nathalie has company," she exclaimed with some astonishment; I wonder who it can be. Keep quiet, I am going to take a peep them, she added, with the air of a window, as the tip-tood her way to the window. window.

In a moment she came flying back to her husband.

"Burton, Burton," she gasped, "it's Aunt Boadicea, and they don't look as if they ever quarreled.

Concluded next week

Spring

Gentle Spring! in sunshine clad, Well dost thou thy power display! For winter maketh the light heart

And thou, thou makest the sad heart

gay. He sees thee, and calls to his gloomy train,
The sleet, and the snow, the wind and
the rain;

And they shrink away, and they fice in fear, When thy inerry step draws near.

The Gentle Voice

The Gentle Voice
If a man will accept the opportunity, he may have every animal about the farm, except the mice and rats, making friends with him. Some people think a cow is too stupid to know good treatment from bad. Such people are stupid. A cow, a calf, a sheep, even a pig, will show their pleasure at being talked to in a gentle voice, almost as much as will a horse.

One of the most pleasant memories of my boy life on a farm is that of the Poland china pigs coming along and lying down by my feet to have me and lying down by my feet to have me curry them with a corn cob, or poke them with my shoe; and the particularly pretty Shorthorn calves, that had petted, coming up for their rub, and petted, coming up for their rub, and petted, coming up for their rub, and the particularly pretty Shorthorn calves, that had petted, coming up for their rub, and the pettern of the p

calming to the mind than the other. It each The gentle voice in the house is taken even yet more of a success than it is at the barn. The soft answer that turneth away wrath; the quiet voice that speaks of self command, and good will, and patience—all these go to make for peace. Mother and the girls with the gentle voice can tame father and the boys before they know what has happened to them. You can have them all coming your way if and, fit tather and the boys before they know what has happened to them. You can have them all coming your way if you will use them as wisely as the wise farmer uses his barn friends. Maybe you knew this long ago and have practiced it to perfection; but it does good to talk it over, anyhow.

—Frank N. Milton, Leeds Co., Ont.

Cleaning helps

All white boards, those not varnish-ed, require a soap and water wash, if one wishes to keep them in proper

if one wishes to keep them in proper condition.

The choice of a scrubbing pail seems a very small detail in this work, but if one of the paper fibre buckets is selected, the work will be lighter, for the galvanied pails—and, inched, those a large—floor space has the gone over, so much lifting will

4

cloths for the final finish. Wool does not give so good a gloss as the latter, for it usually leaves lint. For scrubbing, a hair bristle brush should be provided, and soap containing naphtha is perhaps the best kind for this purpose. Use only warm water, not hot, and thus avoid "washerwoman's hands," that are the result

strength of the arm in rubbing. Now wet the brush and rub soap on it. Scrub the boards by the grain of the wood and where there are spots to be removed, by a rotary niotion also. Partly wring the woolen cloth and wipe off the dirty water. Then wring dry, wiping out every trace of soil, and, finally, rub with the dry cloth.

A Broiling Success Mary B. Keech

Mary H. Keen
The sirioin and porterhouse cuts
are the most desirable for broiling.
The meat should be of a bright red
color, dry and elastic. The fat anould
be yellow and firm. If the steak is
kept on ice for 24 hours, it will be
much more tender.
Do not wash the see cloth. Have
plenty of bright, live coals, and never
broil until the meal is just ready to
serve.

soon tire the worker. Again, pails other than the fibre, are apt to leave a denued ring on the floor.
For mopping, woolen is the best fabric, and old winter underwear is aplendid for this purpose. Summer underwear makes excellent rubbing clicths for the final finish. Wool does not give so good a gloss as the latter, but the state of the stat the gravy cannot be made.

Garnish with sprigs of parsley, thin

slices of lemon, tomatoes or toasted bread.

Plan for Summer Flowers

It is time to be looking over flow er seed collections and planning what to plant to beautify the home yards to plant to beautify the home yards the coming summer, no matter how humble they may be—indeed, the more humble and plain they are, the more need of embowering it with flowers. The sod house and the prairie shack can even be planted all about with seed of climbing, running vines

with seed of climbing, running vines that will with a little care soon conceal even their ough outlines with a wealth of foliage and blossoms. Plant vines also about the outbuild-ings and every unsightly object, and in bedn, or rows, or corner, especially prepared for them, grow some of the prepared for them, grow some of the more beautiful flowers to delight the eye, not only where they grow, but also to cut for indoor enjoyment in vases and bowls, on the dining table and a stand or shelf in the living

Give the children flower bed to be cared for entirely alone by each small individual, and their delight and pride in their work and flowers will know no bounds.

The garden should be planned now The garden should be planned now also, and seeds of some varieties of both flowers and vegetables sown indoors to grow plants that may be ready to set out by the time the ground is warm enough, and which will bloom and ripen early. Send for seed catalogs, advertised in our re-Do not wash the steak, but wipe it carefully with a wet cloth. Have plenty of bright, live coals, and never broil until the meal is just ready to arreve as the steak ahould be cut from % to 1% inches thick, and all of an equal thickness. Have the skillet or wire spring work when her creative for the putting in the meal, rip it with a pitter of such as the present such as the steak abould be cut from % to 1% inches thick, and all of an equal thickness. Have the skillet or wire spring work when her creative for broiler well heated, and just before ces shall have been freed from the putting in the meat, rub it with a bonds of winer. Plan to plant flowers cereivahere.

Our Girls and Boys

We are glad to have a column once more for our girls and boys. Some of you have missed the department no doubt, but now we shall try and have a column for our young people in every issue, and the editor trusts that you will send in your letters as formerly. The letters regarding the Winter was contest at estill coming in, and the property of the control of the contest are still coming in, and the property of the control of in all the photographs you can. The more the better. Letters will be re-ceived until the end of March.

PRIZES FOR BOYS

Boys who would like to earn a set Boys who would like to earn a set-ting of eggs, or a pure bred pig, cannot do better than to send to us for sample copies of the paper, and try and secure new subscribers for us in their neighborhood. Every boy who sends us 4 new subscriptions at \$1 each, will be given a setting of eggs; and for 7 new subscriptions be can secure a pure bred pig, either Berkshire, Yorkshire, or Tamworth. Who will be the first boy to send us subscriptions to secure these premiums? See our offer in last week's issue.

A Good Bargain

A Good Bargain

A very poor sportsaman, who had
gone out for a day's shooting, was returning in the evening with an empty
bag, when he saw a man, aparently
a farmer, leaning over a gate, gazing
at some ducks in a pond.

"What will you take for a shot at
those ducks!" asked the Nimrod.

"Wall balf-a-crown sative rep!"

The countryman nodded, and poc
keted the coin gleefully.

Bang, went our friend's gun, and
immediately after, six of the ducks
had ceased to find any pleasure in
life, think I have

had ceased to find any pleasure in life.

"I think I have made a good bar-gain." said the man with the gun, as he packed the bodies of his victims in his bag.

"So have I." said the countryman dryly, "for them there ducks ain't mine."

Wise on Poultry

The boy who wrote the following composition is evidently of an observing turn of mind, and may one day become a noted poultryman.

"Hens is curios animals. They don't have no nose, flor teeth, nor

don't have no nose. Hor teeth, nor no ears.

"The outside of hens is generally put into pillars and feather dusters. The inside of the hen is sometimes filled up with marbles and shirt buttons and sich.

"A hen is very much smaller than a good many other animals; but they'll dig up more tomato plants than anything that ain't a hen.
"Hens is very useful to lay eggs for plum pudding. I like plum pudding. Skinny Bates eat so much plum pudding once that it set him into the collery.

lery.

"Hens has got wings and can fly
when they are scart. I cut my Uncle
William's hen's neck off with a hatchet and it scart her to death.

"Hens sometimes make very fine spring chickens."

Was the Boy Cured

An elderly gentleman was riding on a street car the other day. A boy be-gan to laugh, and laughed so he couldn't stop. The old gentleman told his mother that the boy needed a spanking, and she replied that she ddn't believe in spanking on an ddn't selieve in spanking on an and: "Neither do I; turn him over."



Address me personally F.W.D.BACHManager
THE 1808 WASHER CO., 388 Youge St., TORONTO, GANABA ve free offer is not good in Toronto and suburbe—Special a

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THE COOK'S CORNER

reactive issue, we desire to 1 mail of the property issue, we desire to 1 mail of the property of the property

POTATO CAKES

Two cups cold mashed potatoes, 34 teaspoon salt, little pepper, 1 small onion chopped fine, or 1 tablespoon chopped parsley, 1 egg, 1 tablespoon butter. Fry till brown.

APPLE CUSTARD PIE

APPLE CUSTARD PIE
Line a deep dish with nice paste;
put in sliced apples, and sweeten.
Bake a custard with 1 egg beaten
slightly little salt, add a little more
sugar, then pour slowly over the
egg. One cup hot milk, pour over apples and grate a little nutmeg over all; bake till done.

BEET SALAD
One qt beets boiled, 1 qt raw cabbage, 1 cup horseradish, 1 cup brown
sugar, 1 pt vinegar, a little salt.
Chop all fine and mix together. This
can be put in jars, and kept where

SAVORY MOULDS

SAVORY MOULDS

Mince cold meat, put in a bowl
with ½ cup bread crumbs, a little
left over gravy, a little chopped onion,
t ablespoon chopped parsley. Season with pepper and salt; mix well
and moisten with beaten egg. Butter
small moulds and fill with mixture.
Bake and serve with brown gravy or
tomato sauce.—Ethel Sherrington,
Brant Co., Ont.

DELICIOUS COOKIES

Mix ½ cupful of sugar with a piece of butter the size of a medium egg, ½ cup of milk, 1½ cups of flour, 2 level teaspoons of baking powder, a little essence of lemon. Roll out, sprinkle with sugar, cut with a small glass and bake quickly in hot oven.

DOUCHNUTS

One cup of sour milk, 1 cup of sugar, 1 egg, 1 teaspoon soda, 2 tablespoons melted butter, a little salt and cinnamon. Mix very soft. Roll in rings and fry in hot lard.

OLD COUNTRY OATMEAL CAKES One half pound granulated oatmeal, & teaspoonful salt, & teaspoon soda, 2 teaspoons melted dripping, oatmeal, salt, soda and the drippings melted in hot water. Mix in a soft paste with enough hot water. Sprinkle the board well with oatmeal knead well, using plenty of meal to keep it from sticking. Roll out thin and cut in cakes, any shape preferred. Bake in a hot oven till brown.

RICH DATCAKES

RICH OATCAKES

One pound granulated oatmeal, 2
tablespoons, heaped, butter or lard,
½ teaspoon soda, ½ teaspoon salt;
a dessert spoon of sugar. Mix all
the dry ingredients together; put the
lard in a cup and pour over boiling
water to melt it, and pour in with
the above mixture when melted. Make
into a fairly stiff dough and proceed
exactly as for plain cakes. Warm
in the oven before using.

FEATHER CAKE

White sugar 1 cup, butter ½ cup, 3 eggs, flour 2 cups, 2 teaspoons baking powder, flavor to suit.

Feeding the Baby

Feeding the Baby

Don't worry, but trust the baby. He is not half as ignorant and helpless as he looks. In fact, if you will study his little physiognomy carfully, you will see that he is not worrying in the slightest about the situation, and is perfectly sure of himself. The baby keep the study what he wants to do of any riverself when the wants to do tany riverself with the study of the first of the fir

EARLY FEEDING

EARLY PEEDING
This faculty is present from his
wery earliest appearance upon the
stage of life. During the first three
days of his existence the healthy
baby cries but little and sleeps almost constantly: and we have now
discovered that during this period 1.3
not only requires no food, but is beting and living upon the neutrelineart
in his blood derived from the veins of
his mother, and until that process is
completed, food in his little stomach is a foregn body. ach is a foregn body.

process in one generation. Not only is the natural supply a far netter food, but it is infinitely freer from risks of contemination and the conveyance of disease.

The greatest pains, and if necessary, considerably prolonged delays, are well worth while to secure this source of supply, even if only partial. If, however, the source cannot be made available, then cow's milk furnishes a fairly satisfactory sub stitute. stitute.

Woman's Home Companion

Money in Canaries

Money in Canaries

A merry disposition, with sound, common sense, makes the plainest person, and the meet humble nome attractive. There is no better inspiration of the sound of the sound

make good, and lose handy terprise.
Why not start keeping canaries on a small scale? Unlike keeping chickens, they require no large run, but,



FINDING HIS FIRST TOOTH

The impression that colic or "colickness" in a baby is a natural characteristic, is chiefly due to the sensuless insistence of officious nurses and anxious mothers upon crowding things into the baby's stomach during his first three days. There was another clear indication on the part of Nature of this fact, if we had only been open minded enough to see it, in that there is no natural supply of nourishment for the cuit: until the close of these three days. The horourishment for the cuit: until the close of these three days. The horourishment for the cuit: until the close of these three days. The horourishment for the cuit: until the part of the collection of the part of Nature, and keep it from starving to death, would almost stagger creduity. ger credulity.

WHAT TO FEED

His faculty of knowing what he wants in the way of food, is equally to be trusted. He is largely a creature of circumstances here, and if ing powder, flavor to suit.

JELLY CAKE

One egg; 1 scant cup sugar, 56
cup sweet cream, 2 teaspoons baking powder, and 1 scant cup flour.

LEMON BISOUIT

One cup lard, 25 cups sugar, 2
eggs, 1 pt. sweet milk, 5c worth lemon oil, 5c worth baking ammonia, pinch of salt. Dissolve ammonia in part of milk. Mix quite stiff...

The constant of the co

The impression that colic or "col. on the other hand, may be kept in the kness" in a baby is a natural char- citeristic, is chiefly due to the sense- ses insistence of officious nurses and any farm home, and, apart from their natious mothers upon crowding into the baby's stomach dur, and the collection of the baby's stomach dur, will soon become a part of the household, which one will beloth to give nother clear indication on the part of the part singers

The care of the birds is far more pleasing for women than that of chickens, and attended to with much more composed to the care of the latter. There is no going out in cold weather to feed the birds, as with the weather to feed the birds, as with the chickens, which, rain or shine, have to be fed. The coops and runs are far more disagreeable to keep clean, and in proper samitary condition, than the little homes of the canaries. There is no disagreeable task of killing the birds, as is the case with the poultry, which task usually falls to the man on the farm, no matter how busy, and if busy, or away, has to be left until his pleasure, before Leing attended to. The care of the birds is far more attended to.

When necessary to part with the when necessary to part with the canaries, there is no such ordeal to be gone through. When one has established a reputation for raising fine singers, there is no difficulty in getting rid of the birds, and usually the demand is far ahead of the supply.

Asked and Answered

When is the best time for me to plant sweet peas?-Ollie Burns, Halton Co., Ont.

Plant your peas as soon as the ground is soft. If they can be planted in a sheltered spot, the earlier they are put in the better, after the danger of frost is gone.

How can I clean my baby's white bear-skin coat? Mrs. Horner, Quebec.

Beat out all the dust from the coat Beat out all the dust from the coat and hang it in the wind for some hours. Then lay it on the floor of a room you seldom use and cover it with dry flour. Rub this into the coat as you would suds, rubbing be-tween your hands, and working with your fingers down to the roots of the your inngers down to the roots of the fur. Cover with a clean cloth and leave all night with the flour in it. Next day take out doors, shake out the flour, hang on a line and whip on the wrong side until every particle of flour is dislodged:

What will remove the yellow color from my piano keys!—Mrs. H. G. Forster, Hast-ings Co., Ont.

Clean your piano keys, as all old ivory is cleaned. Rub them with soft cloth, dipped in alcohol.

How can I successfully stop up rat and mouse holes? I have tried several ways, all more or less defective for the pur-pose desired. Madge Long, Manitoba.

Don't use old rags and papers, Madge. Try plaster of paris. Mix up a small amount with water, and fill up the hole as quickly as possible as the mixture hardens rapidly after being wet. Hard soap is sometimes used for stopping the holes, but it is not sanitary. Why not tear out the woodwork and board up the holes altogether?

I am planing to give a party for one of my little girls, and want to amuse them a portion of the time by blowing scap bubbles. Is there any special way to make the bubbles large and also, that will make them last longer?—Mrx. Galbraith, liastings Oo., Ont.

To make bubbles that can be blown To make bubbles that can be blown big, and will last, take a piece of pure white Castile soap, about the size of a walnut, and cut it up in a cupful of warm water. Then add a teaspoonful of glycerine. Straweerry juice will make the bubbles pink; orange juice will make them yellow.

What will take the white spots off fur-iture and not injure the polish? Mrs. A. Walker, Nova Scotia.

Rub the spots well with spirits of camphor. You can also remove ink stains from furniture, by rubbing them with chloroform.



To get full value out of your food use Bovril in its preparation. Bovril stimulates the digestive functions and is itself a nutritious food.

Cleaning Day

Open windows, opposite each other if possible, so as to have a current of air to carry out the dust. The room will then be ready for actual sweeping with the broom.

Grasp the broom handle in the middle with the right hand, letting the left hand be near the top, and give short "pushy" strokes as you give short "pushy" strokes as you seeping to decommon center. corners, and edges of the carpet, and sweeping to a common center. If the carpet is thick, a small whisk broom will remove the dust from the edges near the baseboards much better than a large broom, and the corners are far more easily cleaned with the smaller broom. Sweep towards the middle of floor,

Sweep towards the middle of floor, bearing down considerably, and sweep from you, keeping the broom close to the dust. Do not give long strokes for that distributes the dust and sends

it flying.

After the dust has been collected into the dustpan, run the carpet-sweeper, if you have one, over the carpet to remove the fine dust, which carpet to remove the line dust, which can only be gathered in this manner. Then take a good-sized cloth, wet in tepid water, into which a few drops of ammonia have been sprinkled and tepid water, into which a few drops of ammonia have been sprinkled and wring it as dry as possible, and wipe up the carpet. The results will be astonishing, for the colors will look bright and fresh.

HOW TO DUST

After sweeping, let your room air, and the dust settle for at least half an hour, then remove all dust cloths, used for covering furniture, and the room is ready for settling. Take a chamois skin and wet in warm water, using a very little ammonia. Wipe all mirrors, book-case doors, glass over pictures, and lastly the windows. This will serve to keep them free from lint, and the same skin can be used to wipe the windows, for it

used to wipe the windows, for it stands frequent rissing. A good large chamois skin can be purchased for fifty cents, and it will last for many months. Next dust the woodwork and fur-niture. A soft cotton duster, damp-ened as you would for ironing, will collect the dust and prevent it from flying, and will not streak the fur-niture. If the wood or inger marks, ing to the form of the property of the con-

inying, and will not streak the furniture. If the woodwork needs washing to remove soil or finger marks, when a cloth in warm water, using a little borax or washing compound to soften it. Paint or enamel can be washed in the same way.

One Woman's Ways

The best labor saving device I have in my kitchen, is a white enamel sink, and a small pitcher pump on the right hand end of the sink. The top of the sink is extended on the left hand for about six feet and the wall back of the sink is covered with rime. Underneath are three cupboards. In one I keep pots and frying pans; in an other, flat tinware, such as pie plates, cake tins, both square and round, cake cutters, etc.; the most such a state of the sink is extended on the left hand for about six feet and the wall back of the sink is covered with rime. Underneath are three cupboards. In one I keep pots and frying pans; in an other, flat tinware, such as pie plates, cake tins, both square and round, cake cutters, etc.; the most such as the cold, use as a drink. It is evellent for a cold.

Put coffee into

Put coff

The strip of wood and the nails did not cost me five cents. The time it took to put it up was not more than five minutes.

USEFUL KITCHEN UTENSILS

OBSECUL NICHEM CIRCUIT.

A meat chopper is another of my friends in the kitchen and is a great saver in both time and strength, after using the old time chopping bowl and knife. I hope to have an apple corer and a raisin seeder soon. I find aluminum kitchen utensils are preferable to any others. They are light to handle and keep clean easier.

I have an up-to-date cream separ-ator and a popular make sewing ma-chine, which I have constantly used for over-twenty years. Both of these machines I would not part with, if I could not replace them.

THE BEST PAPER

THE BEST PAPER
The best body resting and brain reviving device I have in my kitchen is an old wooden arm rocking chair with cushioned seat and padded back to drop into with the Canadian Dairyman and Farming World close at hand to pick up and read at odd moments during the day.—A Muskoka Farmer's Wife.

Little Helps

Kitchen floors are easily cleaned, if painted with boiled linseed oil. White lead is a most effective agent for mending broken crockery, as it is one of the very few cements that will resist both water and heat. Washing soda and ammonia is recommended as an excellent prepara

commended as an excellent preparation, made in the consistency of thick
cream, for cleaning the taps in the
kitchen, or any nickel work on the
range, etc. Wipe very dry after applying, and polish with a soft cloth.
It is also one of the best known polisishes for cleaning windows, mirrors,
and any glass articles.

The culfs of old worn out shirts,
The culfs of old worn out shirts,
make excellent foundations for holders. A dark
cover put on the outside, completes
the holder.

Facts About Eggs

Eggs boiled twenty minutes are more easily digested than if boiled ten. Thy are dry and mealy, and are more readily acted upon by the gasic juice. An invalid can often eat the yolk

In the Sewing Room

5887 INFANT'S CAPE, ONE SIZE



To be made with hood or collar The cloak that can be wrapped against thin the collar that the

for the lining will be mail int of 10 cents.

CORSET COVER 5641



The simple corset cover is a well decover is a well decover is a well decover is peculiarly well adapted to wear under the fashionable blouse waists. The corset sover is made with front hems and there is beading applied over the waist line and threaded with the site. Or regulate the site.

er the waist line ribbon to regulate the size that the size that the size that the size that the size the size the size the size that the size

CHILD'S PETTICOAT 5654



Such a little petitionat as this one in every more protein in comparison to the control of the c





The Growers were all pleased.

Early, strong straw of medium length. Get the Newest and the

Best while you are at it ONTARIO GROWN STOCK - - \$1.25 per bush. SCOTTISH ,, ,, -- \$1.75 ,,

Pure and Clean CLOVER and TIMOTHY

Prices of my best brands for IMMEDIATE ORDERS

		These a	ill grad	20 No. 1, U	overnment star	idard:		
No	Buckhorn	1 "Sun"	Brand	Mammoth	Clover	\$14.00 pe	r bush	(60 lbs
	Ragweed	"Sun"	**	Red		\$14.00	43	(60 lbs
	Catchfly			Alsyke			**	(60 lbs
	Mustard	"Gold"	* **	Alfalfa or	Lucerne Clover	\$13.00		(60 lbs
	Mustard	"Diam	ond" B	trand Timo	thy	\$1.00	44	(48 lbs

SEEDS, GEO. KEITH, TORONTO

SEND FOR CATALOGUE



MAPLE SYRUP **MAKERS!**

THE GRIMM MANUFACTURING COMPANY 58 WELLINGTON STREET, MONTREAL

COUNTRY NOTES AND PRICES \$

KING'S COUNTY, NOVA SCOTIA.

to 55c.
Apple shipments during the first week
Apple shipments during the first week
March rom Berwick station amountMarch Roman Servick station amountingly. Nova Scotin has just been awardin the gold medal from the English Roya
orticultural Society for an exhibit of
opples.

which Dr. Standish lectures on the breeding and feeding of cattle.
On March 20th, a Horse Show will be held at Kentville, when prises will be awarded for the best exhibits.
—Eunice Watts.

PRESCOTT COUNTY

ijr. Nova Bootia has just been awards has pold medal from the Beglish Boyal to tentural Society for an exhibit of tentural Society for an exhibit of be held in the St. Lawrence Area, nother series of Parmer' Meetings beld throughout the county, at tentural Last year this class was left out.

THE WINTER HOG KILLING

THE WINTER HOG KILLING
The estimates of hog singularing at a he packing house in the Westers States, nelisting Chlosop, for the four winter nonths, anding early in March, are 10, returns are in. This estimate exceeds the citizen of the corresponding period of the corresponding period of the past was two years are, when it was 4,050,00 hogs. The weekly killings during he past must two years are, when it was 4,050,00 hogs. The weekly killings during he past must not year are for the past was two years are. The past was two years are provided from 120,000 to 250,000. Partiel of 197 by The aports of hog products from the year at this time. For one week in March the exports were all, 198,000 to 180,000 to 180,0

11,550,000 lbs. as against 5,821,000 lbs. a year against the stress figures explain to some extent the stress figures explain to some extent the stress of t

THE HOG SUPPLY

HE HOG SUPPLY

Hogs are being matched very freely, even with prices tuning as \$400 a swi. There is, however, a short's supply of little factors and very few sows to farrow durflers and very few sows to farrow durflers and the season of the factors and very few sows to farrow durflers and very few sows this season. This means a snort supply of hogs for the packer next fail and winter. Farrawer cause that the case at this season that the case at the case at

THE WORLD'S SHIPMENTS

THE WORLD'S SHIPMENTS
From July 18, 1997, to March 10 last
the world's shipments of wheat and flour
as wheat from the chief exporting counand the state of the state of the state of the state
January 18, 1908, were as follows:
This year. Least pear.
This year.
Th

THE APPLE TRADE

THE APPLE TRADE
Writing from Bristol on Feb. 29. Mr.
W. A. Mackinnon, Canadian Trade Com"At a time when so many complaints are learn with regard to the quality, graving a pleasure to quote figures appeared to the story. The Cardill marker report, dated &b. 22, is a Cardilla marker report, dated &b. 22, is to 25a. Baltwins ... 12b to 25a.

Canadian applessible of the control of the control

DRESSING CALVES FOR MARKET

DRESSING CALVES FOR MARKET
The following advise given by the butchers of Chicago on dressing calves for
market will be found beneficial-sets old,
and weighing about 100 pounds, or say
from 80 to 110 pounds, are the most destrable weights for shipment. The head
should be out out, so as to leave the hindshould be founds, or the most destrable weights for shipment. The head
should so the out, so as to leave the hindbe cut off at the knee joint. The entrails
should all be removed, excepting the
kidneys: the liver, lights and heart
open from the neck through the entire
length—from head to bumput. If this
is done they are not so apt to sour and

March 25, 1908

modification of weather. Many a fine carcass has spoiled in hot weather because a carcass has spoiled in hot weather because his carcass out with water, but wipe out with a dry toth. Don't ship until the animal least is entirely out of the body, as the keeps the air from circulating and makes the meat more liable to be"It is essential that the directions for dressing carries be followed, especially "I'properly before shipping in hot weather, as hundreds of caives are received in had order and easile of the modification of the continued by an easile of the carcasses are also condemned by an easy had been continued by an easile of the carcasses are also condemned by the health officers as being until for look discremants, too, are liable to be within the carcasses and the condemned by the health officers as being until for look discremants, too, are liable to be violation of the law. Very heavy calves such as have been fed on buttermitt until the carcasses and the shipping tag, with your name and address written plainty thereous, the hall least the carcasses and the shipping tag, with your name and address written plainty thereous, the continue was doctored to the law very heavy calves and the shipping tag, with your name and address written plainty thereous.

GOSSIP

SEVEN DAY OFFICIAL TESTS

SEVEN DAY OFFICIAL TESTS
Hasketon Beile tht (229), at 10 years,
2 moutins, 7 days or age, 14.60 lbs. outter
duod ins. Variety by John H. Caldweit,
Failowiield, Unit.
Failowiield, Selbo butter; milk 462. lbs.
Owned by John H. Caldweil, Failowfield,
Owned by John H. Caldweil, Failowfield,

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DOUGLAS THOMPSON'S BERKSHIRES

DOUGLAS THOMPSON'S BERRSHIRES

The Woodstock hard of large English

The Woodstock hard of large English

The Woodstock hard of large English

The State of the State of the State of the State

some of the most fashionable and up-to

the hop that topped W.H. Durhams sais

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THE LYNDEN HOLSTEINS

THE LYNDIN HOLSTEINS
The Jyrdens heart of Holstein, owned
Samuel Lemon, Lynden, Unt., Binni
ver 30 head of richip fored stock. M
over 30 head of richip fored stock. M
over 30 head of richip fored stock.

A son of the west price of the control of the sea price of the sea of the control of th

MARKET REVIEW AND FORECAST

Through March 23rd, 1986.—The Pebruary statement of the Canadian Associated which may account for the strengthening of some stocks. The contraction in compared with a statement of the contraction in compared with a statement of the contraction in compared with a statement of the strengthening of some stocks. The contraction in compared with a statement of the s

HAY AND STRAW
There is no change in the hay situation and prices are the same. Quotations
here for baled thay are \$15 to \$17 per ton
to \$10 for baled straws. To the to \$17 per ton
to \$10 for baled straws. To the ton
to \$10 for baled straw at \$10 to \$11 and in
bundles at \$15.50 to \$15.50 at on. For the
scarce owners under the top to be
scarce owners to the break up of the
roads.

SEEDS

Seed prices are firm. Seedsmen here give their selling prices for seeds as follows: Alakke fancy \$10.50 to \$12, and No. 1 \$25.00 to \$10 a bushel; fancy red clover \$13.50 to \$10 a bushel; fancy red clover \$13.50 to \$15.00 to \$13 a bushel; afairs \$13.50 to \$13.50 a bushel; afairs \$13.50 to \$51.50 per 100 bbe.

Beggs arket is coming down and prices. The supply of new pright for a brits spring trade at a most arket this week. The supply of new prices for the supply of new prices for the supply of new prices. The supply of new prices for the supply of new prices for the supply of new prices. The supply of new prices for the supply of new prices for the supply of new prices. The supply of new prices for the supply of new prices EGGS AND POUTRY.

TORONTO JUNCTION HORSE

MARKET

Three were sold at the new horse exchange, Toronto Junction on each change, Toronto Junction one of the best lots of horses offered in Toronto for some property of the sold of th

WHEN YOU BUY FLOUR it is just as easy to get the BEST as to get the next best. where the prospects to be in sight yet, though reports to be in sight yet, though reports on business this spring are bright.

WHEAT

The wheat situation has not improved any. In fact it is on the whole not any. In fact it is one whole not any in fac The most skilful baking can't make good bread out of poor flour, but any housewife by using can bake bread that will come from the oven JUST RIGHT. If you want "more bread and better bread," bake with Purity Flour. Try it to-day. At all grocers. See that it is on each bag or barrel you buy WESTERN CANADA FLOUR MILLS CO. MILLS AT WINNIPEG, GODERICH AND BRANDON

off so as to restrict the importation of American Freeh and cured pork products.

PETERBORO FARMERS'

MARKET

MARKET

Peterboro, Ont., March 21, 1908.—Trade this morning was very good and everythe price of eggs but butter remained at the old price. Pork and beef were not so plentiful light and street the past three of rour weeks. More poultry also was offered. Apples, potatoes and other three of rour weeks. More poultry also was offered. Apples, potatoes and other titulity. The following were the ruling process. The following were the ruling process of the process

DRILLING & Well PROSPECTING MACHINES LOOMIS MACHINE CO., TIFFIN, O.

VETERINARY COURSE AT HOME \$1200 year and upwards can be made to spare time; taught in simplest English; Dip granted; positions obtained for successful



; positions obtained fot successful s st within reach of all; satisfaction s particulars free. Ontario Veteri ondence School, London, Canada.

MOLER SYSTEM of Barber Colleges

THE J. A. McLEAN
PRODUCE CO. LIMITED
Exporters and Wholesale Dealers

Butter, Eggs and Cheese
T4-76 FRONT STREET SAST,
TORONTO. - CANADA.

In the crop reports for March, just to the continuous conti



1908 PROFITS

GANADIAN AIRMOTOR

It is surprising how much hard work it will do in a year SAVE HOURS OF TIME

SEND FOR OUR CATALOGUE, No 48

Ontario Wind Engine & Pump Co. TORONTO, - ONT.



Problems in Percentage, Interest, &c. Customer - I wish to borrow \$400 for 5 months; will pay the \$11.67 (7%) interest tomorrow. (p. 109). Banker - Seems that you know the interest by heart. C.-With Ropp's New Calculator I can instantly find the Interest on any sum, for any time and rate %.

the interest on any sum, ree any time and rate? 70. If the Int. liqued on the 360 day basis is \$190; what is it on the 365 day basis? Ans. \$187.40. (p. 110). If I pay \$120 a share for \$% paper; what % do I realize on the investment? Ans. 6%%, (page 138). To make 5%, what must 3%% s cost? A. 70 c on \$. Which is best, 6%s at \$110 a share, or 5%s at \$90? Simple and Compound Interest on \$1, at 6%, (p. 130).
For 10 yrs, s, 60¢, e, 79¢; 20 yrs, 1,20, 2,21;
30 yrs, s, 1,80, c, 4,74; 40 yrs, s, 2,40, c, 9,29;
50 yrs, s, 3,00, c, 17,42; 100 y, 6,00, 338,30.

This valuable book will be given free in return for ONE NEW Subscription to The Canadian Dairyman and Farming World, at \$1.00 a year.

THE MYRTLE SALE
The sale of pure bred stock at Myrtle,
Ont., on March 19th, was not so successtown of the sale o

BRANDON WINTER FAIR

Presentation of the Prizes in the Dairy Farms' Competition

Dairy Farms' Competition
The Dairy Farms' Competition organized last summer in the vicinity of Toroute by The Canadian Dairyman was
day of last week when the prizes were
presented to the successful competitors.
Nelson Montteith, Minister of Agriculture
for Ontario, acted as chairman and kept
first prize of 210 was presented to Mr.
Geo. McKenzie, of Thornhill, by Mr. John
Castern Ontario Dairyman Ameedatine,
The second prize of 875, won by Mr. D. J.
Wr. Will. Male Done, was presented by
Mr. D. J. McClurk, of Christian and Mr. A. J. Reymolds, the secretary of the Toronto Mile
Sile to Mr. J. G. Paterson, of Agineourit.
The special prizes offered by the Cliry
P. Slack, of that Company. One of these
prizes, worth 855, was won by Mr. D. J.
Mr. Thos. Malatley, of Downstee.
On behalf of the City Dairy, Mr. Slack
Male Mr. A. J. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr. Mr.
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Mr. Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr.
Mr. Mr. Mr. Mr. Mr. Mr

for loading or unloating stock of any sense.

Although the ticlest for the banquet and the banquet was held was almost filled by farmers and others interested in the banquet was held was almost filled by farmers and others interested in the those mentioned, were Mr. 8. H. Chapman, vice-precident of the Oniario Windtoto hope must be a sense of the Toron Milk Producer Association, and L. E. Annis, of Scarboro. All Canadian Dairyman and of the Toron Milk Producer Association, and L. E. Annis, of Scarboro. All Canadian Dairyman and Practice of the Canadian Dairy



HEAD OFFICE:

Toronto, Ontario

AUTHORIZED CAPITAL, \$2,000,0000.00

Special attention given to the business of Farmers, Cattle Dealers, also the accounts of Cheese Factories and Creameries. Sales Notes discounted. Money Orders issued payable at any banking town. Farmers' Notes discounted. Money loaned for grass or stallfeeding cattle. Municipal and school section accounts received on favourable terms.

SAVINGS BANK DEPARTMENT

Deposits of One Dollar and Upwards received and interest compounded 4 times a year.

Prompt attention given to the collection of Farmers' Sales Notes.

The Union Stock Yards Co.

HORSE EXCHANGE

Keele St., Toronto Junction

Auction Sales of Horses, Carriages and Harness every Monday and Wednesday. Private Sales every day



Come and see this new Horse Exchange, t will interest you, also the Quarter Mile Track for Showing and Exercising

THE Directors of the above Company have not spared anything in the building of this new Horse Exchange. The stables which are built of cement and brick, will stall between 200 and 300 head of horses, and are considered by ludges who have sentem, to be the most sanitary they have yet seen. We have sold on an average of 100 horses per week since the opening of this great Horse Market, and now that the success of the Horse business is assured, we are in a position to handle

Breeders' Stock Sales

of all kinds, Cattle, Sheep and Hogs. Breeders will find that advertising from a central place like Toronto will be advantageaus in many ways, as this is unquestionably the most complete market of its kind in America for both buyer and seller. We have our own Railway Chutes, which are the finest, and can load any number of cars at once on both G. T. R. and C. P. R. No charge for loading or unloading stock of any kind.

GOSSIP

Free Veterinary Book

Tuttle's Elixir

diseases where cure Is possible. Write for the book. Postage 2o.

FUTTLE'S ELECTR CO., 13i Severly St., Seston, Mass.

Mentresh H. A. Tuttle. My., 28 St. Cabriel St.,

Seware of all bitters: only temporary reite', 4f any.

WEST MICHIGAN FARMS CULLANA foreithe occupy in Ruse, Fruits, Greats, Cloris, and pri-department occupy in Ruse, Fruits, Greats, Cloris, and par-dicular control, Poultry 1910, 646, 650 to 860 per Aeres will predame double out first year. All stone, was two some for list. J. D. S. HANSON, HARY, MICHIGAN,

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD READ BY 15,000 PEOPLE WEEKLY

THIS DEPARTMENT is one of the most valuable in the Paper. At a cost of only Two cents, a word, you can advertise anything you wish to buy or sell, or situations wanted or

was to buy or sell, or situations wanted or "MODIL". DIFFESS must be counted as part of the adversament, and each initial or a nimbes counts as one word. Minimum cest 25 cents each unsertion. When replies are to be sent to any instage on register to be ent. to many instage on register to be ent. to end vertices. Cub*n must be received # Frinay to guarantee Cub*n in the received # Frinay to guarantee NO SILACK-FAURA TYPE or display of any kinds will be allowed under this bead, thus making a small advertisement as noticeable as a large due.

FOR SALE—Cheese and Butter Factory, well equipped: capacity 200,000; situated in a good dairy section. Easy terms. Apply Hox 4. Canadian Dairymen and Farming World, Peterburo', Unt.

WANTED.—A cheese factory to rent in the vicinity of Kingston, Unit. Must be up-to-date and large capacity. Apply by letter stating particulars. T. R. BLANCHARD. 65 bt. Mark bt., Montreal, Que.

FOR SALE—A number of imported Clydes dalemares in foal. Thomas Condy, Clare

FOR SALE—A number of imported Clyde-dalemares in foal. Thomas Condy, Clare mont, Ont.

POR SALE—Strawberry plants, Seed Potators, catalogue and price last lead to the control of the cont

FIRST-CLASS BUTTERMAKER wanted in mediately for Vinemount Oreamery Apply to Erland Lee, Stony Creek, Ont

Apply to Erland Lee, Stony Creek, Ont. FOR SALE,—Cheese factory, good locality, one mile from rairroad station. Intentions, goodness, one model of the control of the contr

bridge, Ohio.

WANTED—Buttermaker with dairy school training and two years' experience, for pasteurising, cream-gathering creamery. Apply. with testimonials from past employers, to Box P. Canadian Dairyman.

WANTED-Man with some experience at cheese-making, for season of 1908. Give references. W. T. Oliver, Box 164, Drum-bo., Ont.

Important to Financial Officials of Cheese Factories for 1908

Forward, by mail or otherwise, to the undersigned, your milk-thests and choses buyers' statements, mentoning and otherwise, the statement of t



Continued Fron page 20.

old. His dam, Rose DeKo! Teake 6976, has a record of 5976, ibs. milk in one day and a record of 5976, ibs. milk in one day and Korndyke Reake has over 29 necessaries with records of over 25 lbs. each of butter fat ready in the herd, should make a strong combination for performance, combination for performance, and the strong combination for performance, and the strong combination for performance, and the strong combination for performance, and a strong combination of performance combination for performance with a record of the strong combination of the strong

cuter about Mr. Lemont bulls... to incuter about Mr. Lemont bulls... to inCLYDEBALES FOR CANADA
This west Mesers A. & W. Montgomer,
Netherhali and Banis, Kircandright, are
shipping four exceptionally well byed
many and the state of the control of the control
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one of them is out of Mr. McConnells
noted prise mare Winsome Charteris, and
one of them is out of Mr. McConnells
noted prise mare Winsome Charteris, and
celebrated prise mare Winsome Baroness. The other is out of the exceptionally good
breeding mare Roselest (1987), owned by
of maren have produced high-class stock
One of the older mares is by Mangregor,
Champion Cedric Princess, while the other
is an exceptionally well byed animal, got
of mare have produced high-class stock
One of the older mares is by Mangregor,
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Alters with these Olydesdanes, which should
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Mr. Alter with these Olydesdanes, which should
arkin gets a superior stacking with the control
of good pediction. The Carder
Mr. Alter with these Olydesdanes.

I recently outful to Mr. Statis, of Chinaces

mores.—Scottish Farmer.

Mr. A. A. Ocivili, Newcastin, Ont. writer.

"I recently soid to Mr. Untils, of Ulfrage, I'll recently soid and the soid of the Law of the I'll recently soid and the I'll recently soid and I'll recently so

The Argentine, following the outbursts of foot and mouth disease in Great Britain has placed an embarge on stock going into that country. This will have a sinieter influence on the built trade of the old land. It was South America that kept up this trade.

old land. It was south American that key up this trade,
Full sets of both the French and American Percheron stud books have been set.
Full sets of both the French and American Percheron stud books have been set to be the second students of the second students of the American Percheron to the American Percheron to the American Percheron to the American Perchary Students of the American Perchary Students of the American Percharge and Percharge and

AYRSHIRE TRANSPERS
STOLID OF OITAWY—25397—Director
Experimental Farms, Ottawa, Ont., to John
C. McLanes, Glenpayse, Out.
SENORIA—15615—Horace Lamarche, St. Es
ENORIA—15615—Horace Lamarche, Ste. Julienne,

SALIOR LAD (https://www.gue.com/ SALIOR LAD (https://www.gue.com/ Common Cont. of the Homer Dison. The Homewood, Niagara Falls, Otto, Otto, Otto, Lo Alassey Schweiter, Bridgeport, Ott. TOGO—2003—3—C. Pope, Regins, Saak, to John L. Barge, Penes, Sask, to J. K. McInnis, VERA O'F Killso—17222—9. A. Mcafraline Kello, Que., to D. A. Macfarlane & Sons, One, Que. to D. A. Watel St. Louis Batton.

Kelso, Giss., 10 D. M. Watt, St. Louis Statue.

WITH: LILY-20599—Wen Rannis, Menior.

Ont., to Doubtholor Sowietry, Vorkton, Sask.

WHITE JUDGSS and OF GLAIN HUST—1912

— David Benning a Son, Williamstown, Ont.,

Huster & Sons, Maxville, Ont., to W. H.

Nesbitt, Rolland, Man. MANCY 2nds—25485—A. C. Wells a Son, Sastrille, St., to Chapille Brox., Agassis, B.C.

WHITE GUPS—1790—David Littch. Corn
town. L. Montgomery, Gravel Hill, One to W. L. MONTGOMER STEIN TO ANGERED ST.

HOLSTEIN TRANSFERS

Bulls.

ROCK SALT for Herses and cattle, in tons and carleads.

Toronto Salt Works, Toronto.

Hallman, to Wm. Subring, Sebringville, Ont.

Hallman, to Wm. Subring, Sebringville, Ont. muel Lemon, to Noah

The MCCORMICK

THE HARVESTING MACHINE THAT IS OK ALL

OVER THE WORLD

FAST WORK GOOD WORK AND NO TROUBLE

YOU, of course, want to buy a harvesting machine that will save your crop without delay and without expense for remick binder.

The McCormick is the machine that has stood the test of remick binder.

The McCormick is the machine that has stood the test of no other binder in its class of the stood the test of no other binder in its class.

Its main frame and make and grain wheels are strong and there is no understood to the stood of the stood o

CANADIAN BRANCHES Calgary, Hamilton, London, Montreal, Ottawa, Regima, St. John, Winnipeg

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PRINCE CALAMITY FOSCH 2nd—B. Swance, to Charlis Stanton, Springford, Ont.

PRINCE CALAMITY FOSCH 2nd—B. Swance, to Charlis Stanton, Springford, Ont.

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Fairbanks= Morse



GASOLINE ENGINE SUPPLYING THE POWER

The Engine can be used for other farm work, such as Threshing, Feed Grinding, Pumping Water, and Filling the Silo. The FAIRBANKS-MORSE Engines are portable, economical, well constructed and will work when you want them to. Send the attached coupon for catalogue and copies of testimonials.

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THE CANADIAN FAIRBANKS CO., Limited. 444 St. James Street, Montreal, Que.

Please send catalogue and copies of testimonials.

Address

THE MAGNET CREAM SEPARATOR

Has a DOUBLE BEARING to the Bowl

This Double Support to the Bowl enabled John Douglas, Creekfield, Saskatoon, to skim his milk with the MAGNET sitting on the open prairie

The Double Support to the Bowl prevents wabbling and therefore pro-



The Double Support to the Bowl of the MAGNET renders it impossible for the Bowl to get out of balance.

The Double Support to the Bowl of the MAGNET prevents wear. It will surely last a lifetime.

The Double Support to the Bowl of the MAGNET makes it the easiest separator to turn.

The Double Support allows the MAG-NET Brake to make a complete turn round the Bowl and stops the machine in 8 seconds without the slightest injury, Patent No. 108897.

Fatent No. 108897.

The Double Support on the MAGNET enables us, for a few dollars, to increase the capacity from the smallest to the largest size. You buy a MAGNET and when you increase your herd of cows, you can get a larger skimming device for your present machine.

The Double Support on the MAGNET is protected by Patent.

The one piece Skimmer in the MAG-NET takes all the cream out of the milk nd separates the impurities from both.

The one piece Skimmer in the MAG-NET is easy to clean, three minutes only required after each operation.

THE PETRIE MFG. CO., Limited ST. JOHN, N.B. WINNIPEG, MAN. HAMILTON, ONT. WESTERN DISTRIBUTING POINTS:

CALGARY, ALTA.

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