

VOL. XXVIII

NUMBER 4

RURALHOME

PETERBORO, ONT.

JANUARY 28 1909



WASTE LANDS IN ONTARIO-SAND DUNES IN LAMBTON COUNTY

Investigations, that have been made by the Forestry Department under the direction of E. J. Zavitz, B. A., M. S. F., reveal the fact that in Lambton Co., there are 40,000; in Simcos, 80,000; in South Norfolk, 10,000; in Northumberland, 8,000; and in Durham, 6,000 acres of non-agricultural land, most of which is composed of drifting sand as illustrated above. This land in its present state is practically worthless. At one time it produced the best of timber. It can be successfully exploited for forestry purposes again. The Ontario Legislature should not hesitate to provide the funds necessary for the adoption of a comprehensive forestry policy in connection with these areas. Photo by E. J. Zavitz

Photo by B. J. Za

DEVOTED TO

BETTER FARMING AND
GANADIAN GOUNTRY LIFE

THREE TIMES



That is the record for the sale of SIM-PLEX CREAM SEPARATORS for 1908. Just three times as many as were sold in the year 1907, that's going some. The best advertisement for these machines is the good opinions expressed to neighbors by SIMPLEX users. The machines make friends wherever they are placed. Why not become a Link-Blade booster, it works both ways, the machine boosts your earnings while you are boosting the machine.

The year 1909 gives promise of being the banner year in the history of

SIMPLEX LINK-BLADE

There is only one reason for this wonderful growth and that is the machine does all that is claimed for it. If you



all prevents of the kind held in all the control of the kind held in the kind he out of make the exhibition much more successful than ever. This year, the people who attended the fair pronounced it a success and well worth seeing. This will help the show next

INCREASED NUMBER OF ENTRIES

Owing in part to the fact that the prize list had been increased by some \$2,500, or to a total of about \$7,500, the number of entries from the differ-ent classes was much larger than ever ent classes was much larger than ever before. There were 80 horses and over 100 beef cattle shown, the exhibit of beef cattle being larger than the one at Guelph. In the dairy cattle test, a report of which is given in another column, there were 30 animals. The sheep classes were well filled, about 75 animals being shown, which was more than double the number shown last year. About 2,200 birds were shown in the poultry section, an increase of 300 over last year.

A GREAT IMPROVEMENT

The first great improvement in the exhibition was noticeable as one enexhibition was noticeable as one en-tered the fair building. In past years, the fair was held in one end, or in about one-third, of Howick pavilion. This year, the whole buil-ling was used. The big pavilion contained the used. The big pavilion contained the exhibit of horses. In the centre, was a large saw-dust exhibition ring. Around three sides of the building were some 80 stalls for horses. Over the stalls, on two sides of the building, were rows of seats, which permitted spectators to watch the judging in the judging ring to excellent advantage. While the judging was in progress, these seats as well as the spece around the ring generally were well-filled. well-filled

SOME SPLENDID ADDRESSES

does all that is claimed for it. If you don't know this machine get to know it at once.

D. Derbyshire & Company flead office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS

HIGH-GRADE

COAL AND ICE

HANDLING MACHINERY CUT YOUR ICE WITH A CUT YOUR ICE WITH A COMMISSION, ILL, ARLINGTON, MASS.

PLOW

SEND FOR OUR NEW CATALOO

MUDSON, RLY, COMMON, LL, ARLINGTON, MASS.

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

Well-filled

SOME SPLENDID ADDRESSES

SOME SPLENDID A

The Ottawa Winter Fair
The Winter Fair held in Ottawa last week, was a vast improvement over all previous events of the kind held in the other than the other was a vast in the held in the other than the other was a vast in the week.

THE SEED EXHIBIT

THE SEED EXHIBIT
The seed exhibit was considerably larger and better than last year. The quality of the exhibits was much better than formerly. The location was such as to give it a good general appearance and consequently it attracted considerable attention. It is gradually dawning upon us and the second considerable attention. It is gradually dawning upon us as good clean la seed of the second considerable attention. The disappose of the second considerable attention and the second considerable attention. play of oats from the field crop com-petitions, which took place east of Toronto, was a fine addition to the display of grains, corn and potatoes in the general classes.

in the general classes.

There were some educational features put up by the Seed Branch, Ottawa, which were of note. Besides some charts and the mounted specimens of weeds there were several boxes of growing grains which illustrated the value of a good fanning mill selection of the seed which will be sown this spring. There were illustrations of hand selected plants as well. Some illustrations showing pure and adulterated seeds of red clover, timothy and alsike were also shown.

The exhibition afforded an opportunity for some of the exhibitors.

The exhibition afforded an op-portunity for some of the exhibitors to find a ready sale for their surplus seeds. This was notably the case in seed corn. Several hundred bushels were ordered in the ear by eastern farmers of one of the corn exhibitors from Kent County.

from Kent County.
The only feature of the exhibit
which was undesirable, was that in
a few cases, the professional exhibitor
had tried to play a little fast and
loose apparently. This will right itself in time. At present it is somewhat discouraging to those who put
up the goods they can swear they
grew themselves.

FEEDING RESULTS

One of the exhibits most worthy of mention was that of Shorthorn cattle of the Central Experimental farm, representing two groups bred and fed under different conditions. The first replies the control of the control o

WINNERS IN THE HORSE SECTIONS

winners in the draught classes of the horse exhibi-tion, were Mears Smith and Richard-son, of Columbus, who won first, third and seventh, on Clydesdale stallions foaled previous to January 1, 1906, in strong competition; first on Canadian bred Clydesdale or Shire mare, foaled in 1906; first and second on stallions, foaled in 1907; first on stallions foaled in 1907, which was won by their spiendid stallion Black Ivory, and third in the same class. The championship for Clydes-dale stallions any age was won by their President Roosevelt, the reserve championship going to Black Ivory. their President Roosevelt, the reserve championship going to Black Ivory. The championship for Clydesdale or Shire mares any age, was captured by R. Hunter & Sons, Maxville, won in the section for Canadian bred Clydesdale or Shire stallions and captured the championship in the same class. The Hackney championship went to T. J. Black & Sons, of Winchester for Rillington Grandee. The first for continuous control of the control of the same class. The Adam Scharf, of Cummina's Bridge.

vels pos Lan

"Ab

O beer som ance vege

and Furt soils level acres in Si

umb upon them bares

a poo ave growt policy

man

throw forest brush any o

Prosp

Vol. XXVIII.

FOR WEEK ENDING JANUARY 28, 1909.

No. 4.

Only \$1.00 a Year

THE FOREST PROBLEM OF ONTARIO

A. H. D. Ross, M.A., M.F., Faculty of Forestry, University of Toronto

A Comprehensive Review of the Forestry Situation as it Stands to-day, with an Outline of some of the Needs of the near Fature

THE Province of Ontario has a land area of 220,508 square miles; some 72,000 square miles of which have been surveyed, of which 38,000 are sold. This leaves over 182,000 square miles of territory still under the control of the Crown; most of which belongs to what is known as the Laurentian formation-consisting of granitic rocks. On being pulverized these rocks form the well-known sands and gravels which are unsuitable for agricultural purposes but are well adapted for the growing of timber. The agricultural lands are confined mainly to the southwestern peninsula of the province, and the "Clay Belt" beyond the "Height of Land." All the rest belong to what are known as "Absolute forest Soils," and make up fully twothirds of the land area of the province.

ONTARIO'S WASTE LANDS

One of the greatest mistakes in the past has been to allow people to settle on land that was not suitable for the growing of grain crops. In some cases they located on poor farms through ignorance, but in the great majority of cases simply for sake of the timber. With the disappearance of the timber and the burning up of the vegetable portion of the soil in the process of preparing the land for the plow-the capacity of the soil to retain moisture was greatly reduced, and consequently its fertility was lessened. Furthermore, the working of light and sandy soils soon caused them to be washed to lower levels or to be drifted before the wind. In Lambton County alone, there are said to be 40,000 acres of such lands; in South Norfolk, 10,000; in Simcoe, 60,000; in Durham, 6,000, and in Northumberland, 8,000 acres.

From the Muskoka Lakes eastward to the County of Lanark there are thousands of farms upon which the people should never have been allowed to settle. After years of toil, hundreds of them had to be abandoned, and the rest yield the barest kind of a living to their owners. No greater cruelty can be imagined than to allow a poor man to settle upon poor land. The only place for a poor man is on good land, and the only way to ave it so is to first classify the land-setting aside the agricultural lands for farming purposes and retaining the non-agricultural lands for forest growth. In future it is to be hoped that such a policy will be firmly adhered to.

THE FIRE PERIL

Every man in the country should be impressed with the belief that it is an absolute crime to throw a lighted match or cigar stub upon the forest floor, to leave a camp fire burning, to burn brush close to the woods in a dry season, or in any other way of imperil valuable forest property. Prospectors have been known to fire the woods se as to facilitate the work of discovering miner-

als, and in the northern regions the Indians occasionally burn over certain tracts to make it easier to follow the game. Sparks from railway locomotives are another source of serious fires. Along the northern shore of Lake Superior hundreds of thousands of acres of timberland have been burned over since the Canadian Pacific Railway was built. The carelessness of navvies employed in the construction of railways is an-

For years we have labored under the delusion that we possessed in this fair land an inexhaustible supply of timber. That delusion is a thing of the past. The ever increasing scarcity of saw timber and the steady advance in the price of lumber have caused many to ponder this question long and well. The continued droughts of recent years with their attendant evils, with which we are all too familiar, and which may in a measure be ascribed to the ruthless deforesting that has been practised over Ontario, has brought us face to face with one of the greatest problems that this country ever had before it, namely, the conservation of our present forest areas and the replanting of other areas unsuited to other crops, in the hope of thus undoing the mischief that has been worked. The adjoining article, prepared especially for Farm and Dairy by one of the best authorities on Forestry in Ontario, is a comprehensive outline of Ontario's Forest Problem. It should be read by all.

other source of fires. In the exceedingly inflammable spruce forests of the northern part of the province the fire peril is even greater than in the southern part. Surely it is high time that war should be waged against the useless destruction and needless waste of our forest wealth. It is estimated that there are thirty-five million acres (54,687 square miles) of cut over, burned over or abandoned farm lands upon which tree growth should be retained for all time. Apart from the Forest Reserves, there are about 123,000 square miles of virgin forests and burnt over lands. If we assume that there are 13,000 square miles of muskeg, lakes and other unproductive areas we still have 110,000 square miles left-some 60,000 of which are virgin timber. The remaining 50,000 square miles consist of inferior land which has been more or less burned over within the last fifty years and is unsuitable for farming purposes. The young growth on it should be jealously guarded from fire-every tree of it as though it were

a dollar bill. If so guarded it will soon be worth many millions of dollars.

THE ENORMOUS CONSUMPTION OF TIMBER

Every year our forest areas are being steadily drawn upon for the production of dimension timber, sawn lumber, lath, shingles, cooperage stock, railroad ties, fuel, pulpwood, mine timber, fencing, telegraph and telephone poles, etc. For the upkeep of our railways alone, immense quantities of timber are required every year. By 1913 Ontario will have about 9,000 miles of track in operation. At the rate of 3,000 ties per mile, and assuming that a tie lasts seven years, this will mean the use of 4,000,000 ties a year; or the equivalent of 112,000,000 board feet of lumber. For the development of our mineral resources, too, large quantities of timber will be required. A mine producing 100,000 tons of ore per annum requires the use of nearly 2,000,000 feet, board measure, of timber. If it has to be imported the cost may be so great that it will not pay to develop low grade properties at all. Besides, large quantities of timber are exported from the province, much of it going to Manitoba and Saskatchewan, for the building of railways, houses, etc.

FOREST AND GAME RESERVES

About ten and a half million acres (16,308 square miles) of land have been set aside as Forest and Game Reserves, so as to preserve the timber upon them from fire and timber thieves, and to protect the fish and game. So far, no attempt has been made to place them under management designed to make them produce a continuous crop of timber. They include nonagricultural lands only, and the young growth upon them is being protected from fire in a fairly efficient manner.

The Temagami Forest Reserve, enclosing Lake Temagami and other lakes, has an area of 5,900 square miles, and is said to contain 4,500,000,000 feet, board measure, of standing pine. The Nipigon Reserve is a rectangular block of 7,297 square miles enclosing Lake Nipigon. The Mississaga Reserve, about forty miles east of Sault Ste. Marie, contains 2,916 square miles, and is reputed to have 3,500,000,000 feet of pine upon it. The Sibley Reserve is a small block, of about 70 square miles, situated about 16 miles east of Port Arthur; and the Eastern Reserve, in the northern part of Frontenac County, contains about 125 square miles of young growth coming in on lumbered and burned over lands. This makes a total of 16,308 square miles of Forest Reserves, proper. Besides these, there is also the Algonquin National Park, including 1,930 square miles at the headwaters of the Muskoka, Petawawa and Madawaska Rivers; forming a great stream regulator, game preserve and national playground for the people.

Mr. Cy. Warman, in an address before the Toronto Canadian Club, said: "Destroy your forests and your game will go, your rivers will dry up, your fish will die, and desolation will brood over this land that God has made so fair. Protect your forest while you have it, for when it is gone you will be utterly helpless.

Limits that are sold are sold. What you have done is done, but from this day forward there will be no excuse for any Government that sells timber without reserving its right to boss the job of cutting it."

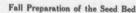
MORE FOREST RESERVES NEEDED

Instead of 18,238 square miles of Forest and Game Reserves, Ontario should have at least 90,000 square miles. According to the reports of the Crown Lands Department, the average annual income from our timber lands during the last five years has been \$2,082,878. This is another way of saying that our taxes have been two million dollars a year less than they would have been without the revenue derived from our timber lands. Who will pay the taxes when the timber is gone?

DEVELOPMENT OF ELECTRIC ENERGY In the newspapers we read a great deal about the development of electric energy from the magnificent water powers scattered throughout the province. There can scarcely be any doubt that electricity is to be the great motive power of the future, and that in many metallurgical operations it will play a leading part. In the great mineral belt known to exist in the Huronian ated the Temiskaming and Northern Ontario Railway with marked success. It has also demonstrated the possibility of regulating mining rights so that the people as a whole may derive some of the natural wealth which properly belongs to them. Does not the timber also belong to them?

Why should the province not make money out of its timberlands as well as out of its mining lands? By all means let us have a Department of Forestry for the administration of our forest wealth. By the adoption of such a policy we would both earn and save money-earning it by selling our forest products for their full market value; and saving it by preventing the present wasteful method of harvesting the crop. The administration of such a valuable estate fully justifies the Government in creating a portfolio of forestry. Under the present system of control nearly as much wood material is left in the bush as is brought to the mill. With the Provincial Government in a position to regulate the cutting of its own timber, however, only the mature timber would be removed, the slash would be disposed of and the young growth would be given a chance to reach maturity. No policy less comtion to give the necessary repairs. Having decided to rent, the next thing is the lease. very careful in this particular. Short leases are what kills the tenant farmer and spoils the farm. Anything less than seven years is not much good Remember signing a lease is signing a partnership and unless both parties keep it there will be no satisfaction.

If no fall plowing has been done and no wheat sown, it will be very difficult to make up a full rent off the farm for the first year. Right here is where a great many fail and go behind the first year and get discouraged. The better way is to agree on a lower rent the first year and be ready to make it up after the third year of the term. As to the profit or how much can be made per acre, no one can foretell. It depends largely on the man and what system is followed. If his predecessor has been successful, the tenant will be wise to take a leaf out of his book. Always lean towards the branch that pays the most. Do not put all your eggs into one basket and be very careful not to put too much time in one place. Attention and attendance bring success.



John Fixter, Macdonald College, Que. In reply to your correspondents who desire further explanation as to why the fall ploughing of corn and root land is the best method of cultivation and preparing the seed bed for the following crop, I am only too glad to give the ques tion a little further discussion. For the benefit of one correspondent who seems to pride himself on the extent of his knowledge of comparative results of the different methods, and who seems to doubt me as a source of information, permit me to say that I am only giving personal experience and actual observation as a result of 22 years' practice on experimental farms, where I have been privileged to see various methods thor-

Let us compare the two methods which seem to be receiving most attention, viz., fall ploughing corn and root land, and simply cultivating and ribbing, instead of ploughing. The first is advisable for the following reasons: It is a cleaner method. The troublesome corn stubble, and often root tops, cannot be gotten rid of or turned under by any cultivator or disc on the market to-day, whereas, the plough if properly handled will turn them down and leave the land perfectly clean on top. This in itself is no small argument. The result is one which means much difference, not only to the teamster and the machinery at the time of cultivating, but also in the next spring, and the following summer, in harvest time, a fact which any binder-driver can vouch for. The mowing machine, the rake, the cutting-box, and even the old cow herself, appreciates the use of the plough at that particular time.

PLOW VS. CULTIVATOR

Actual experience goes to show that in most soils, a finer tilth and a decidedly more uniform tilth is possible when the land is ploughed, and turned up to the frost, than where it is torn into lumps by a cultivator and then ribbed up. While the tops of the ribs, which are raked off in the spring, will be pulverized, the bottom will be but poorly prepared and will remain hard, unless a tremendous lot of hard cultivating is done, which latter naturally leaves your corn stubble to decorate the surface. Again the cleaner surface of the soil and the finer, more uniform tilth permits of a far more even distribution of the seed. The machinery will not be interfered with and a part of the seed will not be left riding on top of material that should have been plowed under, while the rest of the seed is sowed at different depths. Consequently, as many have noticed, there is not the unevenness of growth and the patchy appearance where this more thorough and cleaner cultivation is practised.

The most important argument of all, however,



A Beaver Dam in Northern Ontario

This illustrates one effect of forests upon stream flow, and as a game preserve. The severe droughts of recent years and the partial failing of our streams and rivers can be attributed directly to the ruthless deforesting that has been practised so whelp over our fair land.

rocks of Northern Ontario, and extending eastward into Quebec, it is certain that much electric energy will be developed for mining purposes and for the reduction of ores. It should be remembered, however, that the efficiency of a stream for power purposes depends upon the amount of energy it is capable of developing at the time of low water. Here we have an additional reason for the preservation of the forest cover. Without it we will have the destructive spring freshets and the long summer drought. With it we will have a much more equable stream flow and the development of plenty of electrical energy for industrial purposes.

FOREST SURVEYS NEEDED

With the creation of more Forest and Game Reserves and the better protection of our timber. the next forward step should be to ascertain the character of the reserved lands: devoting to settlement those suitable for agriculture and reserving the absolute forest soils for the production of timber crops.

A DEPARTMENT OF FORESTRY NEEDED After this would naturally follow the organiza-

tion of a department for the management of the reserves and the disposal of their products to the best advantage. Since 1904 the province has oper-

plete than this will give our province the full benefit of the great timber producing area of the

Our people have sufficient public spirit and national conscience to support the establishment of such a portfolio and to put up with such temporary sacrifice of revenue as is necessary to establish a far-sighted forestry policy based upon a scientific and permanent basis.

Renting a Farm In Ontario

J. Keirle, Brant Co., Ont.

A farm in Ontario will produce a greater variety of crops than a farm in any other place in the British Empire and at the present time can be rented for what it is worth. Where shall I rent, asks the enquirer? The best place is where a man knows the land. The soil of some farms is very much impoverished. Find some farmer that has worked his own land and wants to quit. Remember there is nothing like experience and if you do not know the farm, try and find some neighbor that does. The good things are easily seen, but the drawbacks are hard to find out. Spend considerable time finding out the latter. The next thing to do is to find out the character of the owner and if he is in a posiadage in bre of fee Sun natur We w those

in fe

met

voui

bett

simp

one.

mois

feed

mule

syste

hard

be le

in la

As

ciate

form

evide

to sa

incre

impl

corni

weed

excep

surfa worr

crop

who it die

and : I won

last judge

of thi

of cu given

cient

but t

For

Ven ance. the be the st

they 1 profite goes f get th increa Hor cise. to bec

hitche

turned

the st

they a

get mo when ! The dams : are in Way.

in favor of my system, is the greater conservation of soil moisture, a lack of which, with the other method, was undenied in the fact that one of your correspondent's grain stood up so much better when he didn't plow in the fall, for the simple reason that his growth was not a luxuriant one. This latter was due very likely to a lack of moisture, since his rotation looks like a plant feeding one. The difference, in depth of soil, mulch and uniformity of depth between the two systems is evident to any casual observer. The hard ridges, through the field, that are sure to be left with any ordinary amount of cultivation. allow of no mulch on top and little depth of seed bed. As a consequence a drying out is the result in late spring and summer.

THE PLOW MOST ECONOMICAL

Assuming that your correspondents fully appreciate the value of fine tilth for a seed-bed and uniformity and depth of seed-bed which advantage is evident in seeding and in increased crops, I want to say that the plow on the root and corn ground increases these with more economy than any other implement we have available. Referring to the question of weed seeds, the lower soil, even on the cornfields of our average farms, will contain fewer weed seeds than the surface soil. There are some exceptions to this, it is true, but the man with the surface soil perfectly clean, as a rule, need not worry about the lower soil. In actual practice the balance of argument is with the increased crop the following year.

For the benefit of one of your correspondents who thought our corn stalks so very small that it did not take much of a burrow to cover them, and that I was running a charitable institution I would be glad to publish yields and cost of our last corn and root crop, so that the public may judge from results. These are given on page six of this issue. Yields of grain and hay, the results of cultivation as advised in the foregoing will be given in a later issue, since parts of them are yet in stack, our barn accommodation not being sufficient and they have yet to be weighed. Nothing but the actual weight will be given.

Feeding Horses

John Bright, Myrtle Station, Ont. As there is a good deal of truth in the old adage, "the feed is half the breed," it is important in breeding horses to understand the best methods of feeding.

Summer conditions, when horses have the natural grass and plenty of fresh air, are the best. We want conditions at all times to be as near those that prevail in summer, as possible.

Ventilation in the stables is of great importance. In order that stock of all kinds may make the best use of their feed it is all important that the stables shall be well ventilated.

DON'T STINT THE FEED

Unless we feed horses just a little more than they require to maintain life they will not prove profitable. Otherwise, the feed we give them goes for nothing. It is the little extra feed they get that enables them to improve in condition and increase in value.

GIVE EXERCISE

Horses, including the brood mares, need exercise. Without it they do not do well and are apt to become sick. Mares carrying foals should be hitched up and exercised every day. If they are turned out in the barn yard they simply eat the straw and take very little exercise. When they are hitched up and driven five miles they get more exercise in a day than they do in a week when left in the barn yard.

The colts, usually, are like their dams. If the dams are soft the colts will be, while if the mares are in good condition the colts come the same way.

*Report of an address delivered last week at the Ottawa Winter Fair.

I lost all my colts for two years through not using some antiseptic when the mares were coming in. This was back in the nineties, and since then I have not lost a foal until this year when I lost one because my man used the antiseptic only once a day when three times a day would not have been too much.

We should endeavor to get grade and heriditarily unsound stellions off the road as speedily as possible. It is better not to get a mare in foal than to breed her to an heriditarily unsound animal

There is a large mortality among horses because after they have been working steadily and fed liberally they are allowed to have all they want to eat when they are not working. By feeding horses heavily that are not working there is danger of injuring them as they are apt to gorge themselves. When not working their feed should be cut down or they should be exercised. Don't keep on feeding horses heavily when they are not working as it is only wasting feed.

DANISH AND CANADIAN BACON METHODS COMPARED

66 THE trouble is that Danish farmers are not underselling us on the British bacon market, they are overselling us as they are getting higher prices for their product than we are for ours," said Prof. G. E Day, of the Guelph Agricultural College, in the course of a splendid address and discussion on the bacon hog question that took place last week at the Ottawa Winter Fair. "Worse than that," continued Professor Day, "they are overselling us in spite of the fact that we could drive them out of the business were we to take hold of this question in earnest, because we can feed our hogs more cheaply than they can theirs. We, however, seem to prefer to fight among ourselves and as long as we do they are going to beat us. It is for us to decide how long we want to continue our squabble and if it pays us to do so."

"Is it true," asked one farmer, "that the Danes buy shiploads of our feeds and feed them to their hogs?"

"I can't answer that," replied Professor Day, "but I do know that they buy considerable quantities of United States corn for feeding purposes



Prize Winning Berkshires at Toronto, 1908 Discussion on the bacon question points to the fact that hogs are still profitable, where improved stock is kept and properly managed. Read the adjoining re-port of the discussion on bacon at the Ottawa Winter Fair last week.

and it must be an expensive feed for them." Another person stated that a director of the Lake of the Woods Milling Company was authority for the statement that that company ships large quantities of feed from Canada to Denmark where it is fed to the Danish hogs.

What is the reason that the Danes have made such a success of hog raising? was asked

"In Denmark," replied Professor Day, "their farmers co-operate a good deal better than we do over here. Their co-operative packing establishments are an important factor in the situation. Their government, in order that their product may be uniform, has selected the large Yorkshire hogs as the best type and encourages the breeding of these hogs. The government purchases Yorkshire boars and sells them to agricultural societies and co-operative associations at reduced prices. Men who try to breed Tamworths, Berkshires, or pigs of other breeds, are unable to meet this competition. These Yorkshire boars have been bred on the common sows of the country and have brought about a wonderful improvement. CO-OPERATIVE FACTORIES

"Their co-operative factories are assisted. In Denmark, if a farmer sells his pigs to another factory than the one to which he sells regularly he is fined. Over there, they exact their fines too. The factories have power to collect these

fines. This insures a steady supply of hogs for the factories. It enables the factories, also, to dock the price paid a farmer who sells hogs that do L t grade first class. This gives a direct incentive to the farmers to produce nothing but the best hogs.

"When the hogs are delivered to the factory a considerable portion of the value of the hog is paid to the farmer. If the pigs afterwards grade out first class and free from blemishes, such as those caused by blows from sticks or kicks, the farmer is allowed the top market price but the balance is not paid to him until the end of the season when the surplus is divided among the farmers who sold hogs to the factory. These methods encourage the Danish farmers, and make it worth their while, to produce a uniform type of hog of high-class quality. We have proved that we can produce just as fine a Wiltshire side of bacon as the Danes do, but the trouble is we do not produce enough and our product, therefore, lacks in uniformity."

"If we produce a good bacon hog will we get a better price for it?" asked some one.

"No, as individuals we are not likely to." replied Professor Day. "Conditions are such that we seem unable to. Our packers claim that they dare not discriminate because if they do the farmers get angry and sell their hogs to some other packer. I believe, however, that our farmers would be acting in their own best interests were they to endeavor to raise the bacon hog because it would tend to raise the general price paid for hogs and they would get their share of the benefit. Then, also, it does not cost any more to raise a bacon hog than it does to raise a

THE DANES FOOLED HIM

"When I was in Denmark several years ago," continued Professor Day, "I thought that the Danes had about reached their limit in bacon production. I was told that it cost them about 6 cents a lb to raise hogs. I did not expect that they were going to increase their manufacture of dairy products the way they have. This has enabled them to greatly increase their production of bacon. They do not feed hogs over there unless they can feed skim-milk or whey. Their bacon keeps pace with their dairy industry."

"Are we likely to raise more hogs?" was asked. "If feed gets cheaper, we may," was the reply. BE CAREFUL WHAT WE DO

"Before giving up the hog business," continued Professor Day, "we want to make perfectly certain that there is no profit in it. I have heard men declare that there was no money in hogs and yet a year later these same men were buying hogs. Buying hogs when they are dear and selling them when they are cheap is not a good way to make a profit. We should not let ourselves become discouraged by the first breath of adversity. It generally is the man who stays with a business who is able to take advantage of high prices when they come.

BACON VS. FAT HOGS
"There is a general impression that it costs more to raise a bacon hog than to raise the ordinary fat hog. This has never been proved. Experiments we have conducted at Guelph indicate the facts to be to the contrary.

(Continued on page 12)

31 00

wor

He

of l

and

son

pro yet

to

som fact

city

on

cont

sold

cow prof

the

year

caus

to a

we the

we g

pal "As

the

oats fed

anyt

and

corn

the

a si

neve

are g at ou

comi wond

it he rate. ing t whol not l was

said: them

purecan g

class.

now.'

tion "TI

good

that,

end o

of the

much

made

becau

alway

She Ed.

course Truro We h and 2

of ove ber ar wick Island

Selecting a Draught Stallion*

Wm. Smith, Columbus, Ont. "When selecting stallions for breeding purposes, most men have to con-sider their pocket books, the district in which he will travel and the class of mares he will be bred to as well as the price the farmers will be willing to pay for his use. The stallion should be well tempered and the feet, the pasterns, and the legs generally should be as good as possible. Above all things keep away from a meaty

Outline of an address delivered last week at the Ottawa Winter Fair,

clean cut.

clean cut.

"The conformation of the stallion counts a good deal as a good looking stallion attacts as much attention almost as a good looking lady. He should have a strong constitution and be a good walker. The neck should be fairly long as a short neck looks badly. Most horse buyers are willing to pay more for a horse with a neck that is moderately long ouiside the collar. collar.

"A stallion is more likely to be sure breeder when fed nutritious feed from one year's end to the other and given a moderate amount of exercise.

It should be well muscled and A good pedigree is important, but with it should go as many points as possi-ble of the points that I have men-

tioned.

"Be careful when a stallion has any unsoundness, such as ringbone, bone spavin, thorough pin, or if he is a roarer. Do not select a stallion with a small foot. The spring halt should be avoided. I am informed

that no man knows what causes it.
A curb is an abominable defect.

"Many seem to think that the larger the stallion the better. My observation has convinced me that over-grown animals are uncertain breeders. They leave a good colt one time and not the next. It generally is the stal-lion of moderate size that leaves the best stock."

Profits In Corn and Root Growing

Below are given the results of the yield and the cost of growing 30 acres of cont and 15½ acres of roots on the Macdonald College Farm. These figures are kindly furnished the readers of Farm and Dairy by Mr. John £1. Eur., superintendent of the college farm, in response to some adverse criticism of his methods of cultivation. Mr. Fixter promises to furnish us in the spring with full directions as to the land to select, plowing, harrowing, cultivation, etc., for both corn and roots so that others may have such excellent results as shown below, even in a very poor season. Read on an-other page Mr. Fixter's reply to those who have attacked him.

PROFITS IN CORN GROWING Yield and cost of growing 30 acres

of corn: Rent of 30 acres, at \$3.00 per acre Manure ¼ of rotation, at ## S5.00 per acre.

Ploughing, at \$2.00 per acre
Harrowing 4 times, at \$3.00
per day, 7 days.

Seed—15 bushels, at \$1.45
per bushel Sowing 3 days, at \$3.00 per Cultivation 4 times, 6 acres cutting, tramping, 96 days, at \$1.50 per day........ Use of engine and machinery 7 days, at \$7.00 per day

Total \$ 769 75 Total weight of corn—480 tons, 1,441 lbs., cost......
Value on farm for feeding, \$ 769 75 \$2.50 per ton.... Profit in growing from 30 acres \$ 432 05

Average yield-16 tons, 48 lbs. per

PROFITS IN ROOT GROWING Cost and yield of 15% acres of roots: Rent of land, 151/2 acres, at 46 50

Rent of land, 10% acres, \$3.00 per acre.

Manure ¼ of rotation, at \$5.00 per acre.
Ploughing previous summer, at \$1.50 per acre.
Cultivating and harrowing summer, summer. 77 50 23 25 24 00 previous summer ...

6.00 3 00 10 50 13 60 Sowing 6 2-10 days, 15c per hour 18 00 93 00 day Pulling, loading, unloading, 112 days, at \$1.50 per day 51 00 168 00 Drawing team 14 days, \$3.00, horse and cart, 14 days, \$2.25 per day..... 73 50 Total cost...... \$ 651 15

Ploughing in autumn, at

Total weight of roots-359

tons, 1,685 lbs. Average yield—23 tons, 1,431 lbs. per acre. Value on farm for feeding,

at \$2.50 per ton..... \$ 899 07 Profit in growing from 151/2 acres \$ 247 92

Handling a Prize Winning Herd

"You will remember that for the last two years I have been a competi-tor in the Dairy Herd Competition," said Mr. W. E. Thompson, of Wood-stock, who won the 3rd prize in the Dairy Herd Competition, in addressing the dairymen's convention in for across fortunate enough to get a medal. As far as I was concerned I made up my mind that this year I would not try for it. I did not feel that my herd was in shape to start out another seating. I would not try for it. I did not feel that my herd was in shape to start out another seating. I would not try for the feel of the feel ing the dairymen's convention in Brantford recently. "Last year I was

to about \$75.00 in round figures. That is not a great amount of money to spend for mill feed. I was a little short of pasture and was handicapped in not having a silo. I haven't made a practice of growing lucerne or peas and oats or any crop of that kind. I am only a common man, starting hon-estly in business, and it takes time to get these things. I am putting up a silo and expect to have it for next year. Lucerne and silage are neces-sary things to produce milk economically for cheese making."

Evidence from Another Prize Winner

"In the first place we have quite a large herd," said Mr. Mason, of Turell, speaking before the recent meeting of dairymen in Brantford. "We have been in the dairy herd competition for three years and they had to extend the prize list to give us a show; they gave five prizes and we happened to get the fifth one. Still we are quite pleased at that because it means quite an effort to get a herd in sufficient condition to win a prize at all. My brother and I work to gether; he is older than I am and I

NAMES OF INTENDING BUILDERS

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

We will also give THREE CASH PRIZES, as follows:

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

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

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

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



The Feed That Makes The Cream

Livingston's Oil Cake is the cheapest teed for cows -cheaper than corn, shorts or even hay. Because it actually increases the richness of cream—and also increases the amount of butter that you get out of the milk. Test your cows before and after feeding Livingston's Oil Cake for a month-and your "butter money" will show its economy

Livingaton's Oil Cakes contain from 8 to 116 of pure Linseed Oil—are soft enough to break into small nuts—and are completely and easily digested. Write us for sample and prices if your dealer cannot supply you. Dominion Linseed Oil Oo., Limited, 31 Mill Street, Montreal.

Livingston's Dairy Oil Cake

HOW TO BUILD A GOOD FENCE

on concrete post making, snowing now these office posts can be economically made at home. Don't fall to write for a copy. It's free.

THE BANWELL HOXIE WIRE FENCE CO., Ltd.

Dept. O Hamilton, Ontario.

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

would have preferred that he should have been here to have spoken for us. He is a married man and has lost a little of his hair, and you would expect him to be wiser.

"Our father should have the credit thaving the good herd, but he is not thaving the here have taken the same herd and follow have taken the same herd and follow have taken the same herd and follow have with these and every year they have with these had every year they have the here had every year they have the here. same herd and followed on with them and every year they have improved somewhat. They are all Holstein and Holstein grades, and by careful selection from year to year we have improved them. They can be improved yet to a great extent. We are trying to work into pure-breas. We have to work into pure-breas. We have considered to the proper year, and the proper year of the property of

GROW ALL THEY FEED

GROW ALL THEY FRED
"We have always grown everything
on our farm that we feed the cows,"
combined Mr. Mason, "except a little
bran, and nearly every year we have
sold some grain. Everything that the
cows have made for us has been clear
profit, but to figure out how much
the clear profit has been from year to
year is a pretty hard thing to do, because the prices vary from one year cause the prices vary from one year to another. I always think that when we produce everything on our farm the most important point is the price

we get for it when we sell it.

When asked what was their principal summer food Mr. Mason replied:
"As summer food in the first part of the season we fed a little mixed grain, oats and barley chop. This year we fed a little all summer. We hadn't anything in the way of green food until the corn was large enough to cut and then we commenced feeding green and then we commenced recuring given corn. As Mr. Paget said last year at the Farmer's Institute meeting he be-lieved it would be far cheaper to have a silo and feed silage, but we have a silo and feed silage, but we have never had one until this year and that is something we are going to do. We is something we are going to do. We are going to feed corn early in the season. Mr. Clemons, of St. George, was at our farm last summer when we first commenced feeding, and he rather wondered whether there was anything in it or not, but he was convinced that it helped to hold our cows at a steady vata. Fram the time we started feed. rate. From the time we started feed-ing them I do not think they varied from five to ten pounds a day for the whole herd, and I am sure we could not have done that last fall when it was so very dry and the pasture didn't

was so very dry and the pasture didn't grow after the middle of August."

"What is your method of selecting your cows." was asked? Mr. Mason said: "In the first place we raise them from our best cows and keep pure-bred sires, of the best stock we can get. The last few years we haven't had a helfer that has not been first-class. Our cows are all good stock now."

"Do you weigh the milk," was ques-

"Yos," replied Mr. Mason, "we have been in the Cow Testing Association for two years."

"That is where you ascertain the good cows," continued the questioner. "Yes," concluded Mr. Mason, "and that, I think creates a surprise at the end of the season. When we are totalling up at the end of the season some of the cows that didn't give nearly so much in June and July would be giving a steady flow in the fall and they made me more money than the others because it is during September, October and November that the milk is always worth the most money."

Short Course at Truro, N.S.

Short Course at Iruro, N.S. Ed., Farm and Dairy.—The short course at the Agricultural College, Truro, was completed on Jan. 15th. We have had a regularly enrolled attendance of 203 in the near's course and 20 in the ladies' course, and there has been an intermittent attendance of over 300. Included among the number are 25 students from New Brunswick and 40 from Prince Edward Island; also some 10 from Great Brit.

tain, and the rest from the various tain, and the rest rom the various counties of Nova Scotia. The course has been, in every way, the most successful yet held in the history of the college and the attendance points to a day, not very far distant, when the class rooms at the college must be increased. A number of the short course students are going in with the regular classes, the attendance at which will now stand at about 50.

Aside from the numbers in attend-nce at these short courses, it is most satisfactory to observe that they are constituted, for the most part, of the most progressive and intelligent farm-ers of the Maritime Provinces. It is, therefore, with every coundence that those interested in agriculture in those interested in agriculture in these, the eastern provinces, are looking forward to a development of the agricultural resources, which will gradually bring this province up to the highest standing. When it is considered that four years ago the number if attendance at this course was ber iff attendance at this course was 64, and the number in attendance at the regular course was 15, the readers will readily appreciate the progress which is being made.—M. Cumming, Principal.

Our Legal Adviser

SHARE OF MORTGAGE.—1. A owns 200 cres, with a mortgage of \$2,000 on it. B suys 100 acres and assumes half the mort-

buys 100 acres and assumes half the mort-age. A gives B a deed but the mortgage is stated on it as a lien.

2. Mottgage is now due, B will pay off his share. Will the old deed and the receipts share to mortgage make it as good as polemeted of mortgage make it as good as polemeted or will B have to have a new deed made.—Anxious, Lovering, Ont.

B will not require any further conveyance from A, but it will be necessary for B to obtain from the person holding the mortgage, and to register, a discharge of the mortgage. If A is prepared to pay his part of the money. an absolute discharge will be obtained, but if not, B should arrange with the holder of the mortgage, to give him a discharge from the mortgage, of the 100 acres which he has purchased.

MAKING SPRUP ON SHARES .- A has a and a struct of the structure of the str

The share to be had by each is largely a matter of adjustment be-tween the contracting parties. The usual practice would be for A to get from ½ to ½ of the products, depending from 35 tc % of the products, depending upon the season. Should it chance to be a "lean" year, B would fare but poorly, did he only get a half share, whereas in a good year, he would get more than a just share. The best method would be for A to take a straight third and a certain percentage of the proceeds in addition; the amount of such percentage to be agreed upon by the parties concerned.

BLACK WILLOW FOR FENCE POSTS .-Will swamp or black willow last very long when sunk in the ground for fence posts?—W. H. M., Bardolph, Ont.

Swamp or black willow, or any other kind of willow is very short lived when placed in contact with the soil when placed in contact with the soil as fence posts or otherwise. I am not in a position to say the exact life of this kind of wood as a fence post, but I should not think it would exceed five or six years at the most. The life of such a personal be prolonged by painting with resolute and better still the property of by imm heated creosote. to use very many screosoting would S. J. Zavitz, Forester, Was oertainly page 0. A. C.

FARMS, HOUSES AND LOTS FOR SALE BLEWETT & MIDDLETON, 421 George St., Peterboro-

LICE MANGE RINGWORM

SORE UDDERS - ULCERS **ABORTION**

> All Cattle Troubles which may be Prevented and Cured by

COOPER'S FLUID

75c. Qt.; \$2.00 Gall.; \$8.50 Five Galls.

OF ALL DRUGGISTS, OR OF

WILLIAM COOPER & NEPHEWS

506-507 Manning Chambers, 72 Queen St. W., Toronto

For Farms, Houses, Lots

BELL AND TAYLOR

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

SEED OATS

FOR SALE-A quantity of Improved American Banner Oats, grown from pedi-greed seed. Also some "Dew Drop," a splenpid early white oat, that I have grown for several years with good success. Heavy, thin hulled, about same length and quality of straw as Banner, but four or five days

Samples and prices on application to the

WINDMIL

A FORSTER. Markham, Ont.

Towers Girad

every five feet

apart and

double braced

Grain Grinders

Gas and Gasoline

Concrete Mixers

IWRITF FOR CATALOGUES

GOOLT, SHAPLEY &

MUIR CO., LIMITED

BRANTFORD, - CANADA

Pumps

Tanks

Engines

WARRINER'S CHAIN

LAND for SETTLEMENT

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

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

THOS. SOUTHWORTH,

HON. JAMES S. DUFF. Minister of Agriculture.

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

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

Will 100M for our valuable free book, "How to Raise Calves Cheaply and Successfully Without Milk.

It contains the concentrated experience of the gener-tons which this firm has spent in learning to produce absolutely perfect calf food. The 50,000 farmers who cusing Histchford's Calf Meal today know its value. Your name on a nostal will be seen to the state of the contraction of the contraction

Address : STEEL, BRIGGS SEED CO., Ltd., - - TORONTO, ONT.

1000

Wanted as
Brakemen and Firemen \$38lary \$75 to \$150. Wanted as

Study a few hours a day for eight to ten weeks, and we guarantee to assist you in getting a position on any railway in Canada. We teach and qualify you by mail. Write us for booklet and full particulars.

The Dominion Railway School, Dept. R. Winnipeg, Man.

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

HORTICULTURE

Recessossessessessesses Trunk Splitting

W. T. Macoun, Central Experimental Farm

Trunk splitting was long thought to be due to the expansion of trees which had been "hide-bound." We do not believe that there is such a thing as a "hide-bound" tree.

While so far as is known no experi-While so far as is known no experiments have been tried to determine the cause of trunk splitting, yet several theories have been advanced, the best one being that the splitting is due to a sudden lowering of temperature which cools the outside layers of wood in the trunk, making a considerable difference in temperature between the outer and inner layers, the contemporary of the cont when there is a sudden fall of temper-ature, due to the contraction caused ature, due to the contraction caused by the upper layers of ice coming in contact with the cold air. It is trees which have made late growth and are well charged with sap that are usually affected, hence thorough ripening of the wood in fall is necessary for the prevention of this injury.

Home-Made Soluble Oils

"Home-made Soluble Oils for Use Against the San Jose Scale," is the title of Bulletin 178, issued by the Virginia Agricultural Experiment Station. From tests made at this station, the following conclusions are

spraying the lime-sulphur is probably ore satisfactory.

more satisfactory.

The various prepared or patented brands of soluble oils cost about three times as much as the home-made product containing the same per cent. of oil. Our tests indicate that the home-made oil is as effective as the prepared oil. The home-made oil is about the same as the cost of lime-

sulphur.

The home-made soluble oil is more practical for the commercial orchardist than for the man who has only a few trees, unless one person will make

the material for a neighborhood.

It is not quite as troublesome and disagreeable to make soluble oil at home as it is to make lime-s.lphur. Apply the soluble spray only in the dormant season. The trees should not be pruned before they are sprayed, as the oil may injure the cut surfaces, unless they are painted.

The home-made soluble oil spray is recommended for trial against the San Jose scale and the maple scale. It is not recommended for use against the scurfy scale.

Apples Too Large

In a recent report of the Depart-In a recent report of the Department of Trade and Commerce, Ottawa, Mr. J. S. Larke, Canadian Trade Commissioner for Australasia states: "The first considerable shipment of apples from British Columbia landed in admirable condition. The only objection to them is that they average a little too much in size for the fruiterers to handle to the best advantage. Three pence each is

upon the arrival of the Canadian

Good Australian fruit does not come into the market until the beginning of the year, and apples from Canada or the United States arrive here when there is comparatively little dessert fruit to be had."

Strawberry Culture

Editor, Farm and Dairy:—The article in your December 9th issue, by Mr. Rittenhouse, has many valuable points, but there are a few things in it which my experience has taught me are not applicable or advisable for all strawberry growers. His plan for preparation of the soil is excellent, also his advice about selection of also his advice about selection of plants. But my experience regarding time of planting does not correspond with his My best auccesses have been with plants set just as soon as I can work the ground; in fact, two years ago I received some plants from the United States before the frost was all out of the ground and I had difficulty in getting the spade deep enough into the ground to admit the roots to proper depth, but without harrowing the ground which, of course, had been fall plowed, I got them in and never had a better stand of plants than these gave me. We of plants than these gave me. We had frost afterwards that froze the

had frost afterwards that froze the ground quite hard, yet did not seem to injure the plants. In setting, I use two boys to take arms placing the plants in the hole nade by the spade and can thus set about 4,000 in a day. In making the holes, I hold the front of the spade totitle of Bulletin 178, issued by the Virginia Agricultural Experiment Experiment Experiment Station. From tests made at this station, the following conclusions are drawn.

"There has been an unusually large importation of apples into Australia and New Zealand from California and Oregon. The California and Interest of the California and Oregon. The California and Interest of the California and Oregon. The California and Oregon. The California and Interest of the California and Oregon. The California and Interest of the California and Interest of the California and Oregon. The California and Interest of the California and Interest

We cannot put too much stress on the desirability of cultivating with a light cultivator as soon as the plants are set. It is also advisable to use

are set. It is also advisable to use the fingers around every plant, to stir the soil about them, leaving a little loose earth on top.

I, too, have had serious damage threatened by cut worms but have managed to exterminate them completely as soon as detected, by mixing a small quantity of Paris green in ing a small quantity of Paris green in slightly moistened bran and scatter-ing it lightly along the rows. The worms are very fond of bran and seem to eat it in preference to the foliage. On getting '1e pcison, they crawl under the surface of the ground and discontinuous properties.

pou

any

the

try T

fort

the bun

and pou

tent

thir

quie

dres

year boy

to g thar well and

way way beca the

posi agai

awa boy, time

den

with

wher

plair

and poul

ened

they

wher

lavin I ha
if I h
I tol

yolks well

blam

I mo share

would hen e

indu and o

lose t

catch

out w from

on getting be pelson, they crawl under the surface of the ground and die.

While I am aware that Williams is the great commercial berry at Jordan, I often onder when the comparison test that has ever placed Williams higher, or even as high in yield, as many better berries. While it is a good shipper, its green tip and poor color makes it a very unattractive market berry. In our market, when Williams were a drug at seven cents a box, I sold Busters at I cents and the latter is a much better yielder. True, Buster is not so good a shipper, but Lovett, Sample and Parson's Beauty, are as good shippers, as good yielders and decidedly better sellers. I now have eight acres under straw-I now have eight acres under straw-berries, including 62 varieties, but only planted 25 plants of Williams last spring.—W. J. Kerr, Ottawa.

Resolve to treat the orchard for what there is in it and not as a side

There are hundreds of small or-chards in this country that would give three or four times the usual re-turns if more attention were given to spraying, pruning and cultivating.

Renew Your Subscription Now.

Why Every Farmer Should have a Telephone.

A telephone, in a farmer's home, not only enables him to keep constantly posted as to market prices, but saves him need-

less trips to town. With it he can know, not only the news of his neighborhood,

but of the surrounding country as well. If a telegram or other important message comes, it can be delivered without loss of time.

A telephone enables the farmer to have his machinery repaired

It will, at a moment's notice, summon a doctor and may be the means of saving your wife your child's life.

By means of a telephone, you can, in case of fire, summon your neighbors to come to your assistance and so save your stock and buildings,

With it you can make social calls without the necessity of having to drive for miles on a sultry or freezing night.

But don't buy a telephone simply because it's cheap - a telephone is more than a plaything or an ornament.

Write us for particulars about a rural telephone that can always be relied upon, with cost of installing, etc.

You can build and operate your own telephone line.

The Northern Electric & M'f'g. Co., Ltd.

599 Henry Ave.

Cor. Notre Dame & Guy Sts. MONTREAL.

0 8 6 11 1101

427 Caymour St.COUVER

Use address nearest you.

POULTRY YARD

****************** Don't Frighten The Hens

If any class of stock require careful undemonstrative handling it is the poultry. Don't speak cross in the hen-house, never scare or frighten in any way. A writer in "Farm Poul-try" gives his experience regarding the subject. Very few who keep poul-try are blamcless. the subject. Very

try are blameless.

In 1866 I came into possession of forty-two hens, which after a time I dressed for market, cleaning them for the cook. All but one were in perfect coudition; that one having the entire bunch of eggs very hard, and all enclosed in a sort of sack. I have never seen anything like it since, but have had many cases of hardened yolks, and yolks loose among the intestines.

For a faw years I beautiful.

For a few years I kept a few hens and found no hard yolks when the poultry was dressed for my customers. I increased my stock to such an expoultry was dressed for my customers, increased my stock to such an extent that I was obliged to have help to care for it. In 1903 I took a thirteen-year-old boy to help. He did thirteen-year-old boy to help. He did thirteen-year-old boy to help. He did thirteen-year-old for member the internal state of the poultry dressed while he was with me, because I had not at that time associated a boy and hard yolks together. Two years later I had an eighteen-year-old boy; he was quick motioned, and in a hurry to get through the poultry work to get at the farm work. The hens became nervous, and ran away rather than towards us, and did not lay very well, and I began to find hard yolks in dressing the poultry. My latest and last (I hope) helper was a four-teen-year-old boy, good in many teen-year-old boy, good in many teen-year-old boy, good in the control of the family walk that when any one of the family walk the hen runs the roultry walk to the hen runs the roultry walk to the the resultry walk to the resultry became so with that when any one of the family walked by the hen runs the poultry would run and fly to the op-posite side of the yard, often beating against the wire in their haste to get away from whoever was near. This away from whoever was near. This boy, in feeding the hens, would sometimes get a lot of them together eating what he had put down for them, then he would throw the feed pail in their midst just to see them fly and flutter.

It was while he was with me that I came to the conclusion that these sudden frights and starts caused the trou-ble with the egg cluster, for the hen without hard yolks was the exception whenever I dressed any of those fowls. I talked to the boy and explained to him the effect of roughness and too much haste in moving among poultry, and I showed him the hard-ened yolks. I had one pen of nine Indian Games that became so wild they would break a window glass in trying to get out of the hen-house when I entered it, and they stopped laying. I decided to kill them. After I had dressed them the boy asked I had dressed them the boy asked if I had found any hard eggs in them. I told him I had. I believe he had done something, perhaps many times, which had spoiled these hens as layers. Certainly I did not have hard yolks until after the hens had been well stirred up and seared. I do not blame the boys for all the trouble, for I more than suspect that I caused a share of it, at least in a pen of Plymouth Rocks. Some times a customer would come and insist on having a would come and insist on having a mouth Rocks. Some times a customer would come and insist on having a hen or two immediately. I could not induce such ones to wait until night and come when I could quietly pick the hens off the roosts. Rather than lose the trade I would get a wire and catch them by the leg as they went past me. The hens very soon found out what I was doing, and kept away from me. Then I slowly followed them about and worked until I caught what I wanted. It scared them, how-

Reseaseseseseseseses ever, and they rushed with more or less haste into the corners. It is a week the hens stopped laying. I did not dress any of them from that pen at that time, but sold them alive, so I do not know the state of the egg

cluster.

I have sent the boy away, and have sold every hen and chicken I had on the place, and next spring intend to begin all over again, keeping only as many fowls as I can care for myself. I will not catch any for a chamorous customer, and if then I find hard or dead yolks I shall believe I have not found the reason thereof.

Uric Acid Poisoning

Some time ago I purchased two 'tens. On killing and dressing I found between the kin and flesh a complete network of the kin and flesh a complete network of the size of grains of when, about half the size of grains of when, a bout half the size of grains of when, a bout half the size of grains of when, a bound of the size of grains of when a size of grains of the size of grains of the size of grains of the size of grains of gra

place.—G. S. B.

Prof. F. C. Harrison, bacteriologist
at Macdonald College, states that the
trouble is caused by a deposit of lime
salts beneath the skin of the bird. The
sceretions from the kidneys of birds
are much denser that kidneys be in
arrals, and should the kidneys be in
any way affected the kidneys we not
eliminating quickly enough arrates
are transferred and seen to be started
up in various situations. are transferred and seen to be started up in various situations, giving rise to uric acid poisoning. Anything that will assist the action of the liver will benefit. Try Carter's little liver pills. —F. C. E.

Poultry Notes, Original and Otherwise

It costs no more to feed a flock of good hens than it does a flock of poor

As a rule pullets lay better than old hens, but neither will lay without feed.

Though doctoring chicks is not profitable, it pays to know how to prevent sickness.

A change of food often helps layers to start laying again, hens like other animals like variety.

Except during the breeding season keep males away from the flock, hens lay better if left alone.

Hens that lay soft-shelled eggs may be helped by a little more vegetables or green food and oyster-shell.

If a hen will not pay for her keep in eggs she should be made into just what she is best fitted for—a pot-pie. Alfalfa makes on excellent feed for poultry in winter. Cut it up fine and steam it or throw a forkful in for lit-

One cannot raise chickens and lice together, the lice will thrive at the expense of the chicken. There is no profit in lice.

"The hen doesn't lay because she is too fat" is not correct. That "she is too fat because she doesn't lay" is arer the mark.

Dampness in the poultry-house should not be allowed. Give good ventilation without drafts, and don't over-crowd the hens.

Lazy hens, like lazy men, are not money-makers; they eat up the pro-fits of the busy ones. You can kill the hens if not the men.

Milk is a good poultry food whether for making eggs or flesh. It is good for the chick at all ages from the day it is hatched to the laying hen.

Start with the breed you think you want and if it is the right one for your locality and market stick to it; nothing is gained by changing breeds. It is just as well to have a well-bred

chicken as a well-bred horse or cow Any amount of food will not make a mongrel as profitable as a pure-bred under the same conditions. In building the house do not have the roosts too high; two feet is high enough. Have them level, not step-ladder style. Many hens get hurt trying to get to the top and shoving seah attree. each other off.

Good Layers.—Every flock will have a few good layers with those that are not profitable and the whole flock may be condemned, though some of the hens may be the best to be obtained. It would be an advantage to separate the layers, for the reason that the laying hens require more food, while the others may be or get too fat. Sometimes it will pay to sell too fat. Sometimes it will pay to sell excellent producers at all seasons.—F. C. E.

Hatch Chickens by Steam Stahl "Wood on Hon" and "Excelsion"

GEO. H. STAHL, Box 32 C QUINCY, Its.



DOES YOUR POULTRY PAY? If not, Poults POULTRY POINTERS, Box C, Farwell, Mich.

to Farm and Dairy, was received this morning and I am well pleased with it.—B. G. Fraser, Argenteuil Co., Que.

too fat. Sometimes it will pay to sell all the hens but those that have been excellent producers at all seasons.—

Farm and Dairy for many years has been a welcome visitor to our home. Its timely articles appeal to all members of our family and make its me for securing one new subscriber W. J. Stevenson, Onlario Co., Ont.

PUT ON IN 1885

Perfect Protection in 1909

Metal Shingles may be "guaranteed" to last for 25 years-and not last five.

When a house has been making Metal Goods only a few years, of what good is their "guarantee" that their shingles will "last a life-time."

They don't know themselves how long their shingles will wear because they have not had time to put the shingles to the test.



"EASTLAKE" **METALLIC** SHINGLES

MADE IN CANADA FOR 24 YEARS

Don't forget that-Made in Canada for 24 Years. In use, right in your own province, for 24 years. Proven lightning-proof, fire-proof, leak-proof, w.ndproof, rain-and-snow-proof, wear-and-rust-proof by 24 years' resistance against storms and climate.

The guarantee that goes with "Eastlake" Shingles is backed by 24 years' test. You don't take risks, you know.

There's the "Eastlake" Cleat—the improvement that makes the "Eastlake" Shingles perfect. An entirely original idea, patented, and found only in "Eastlake" Shingles. Let us tell you all about it. Write for catalogue.

The Metallic Roofing Co., Limited TORONTO Manufacturers WINNIPEG

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

THE LINDE BRITISH REFRIGERATION CO.

. . MONTREAL, P.Q.

MANUFACTURERS OF

REFRIGERATING AND ICE-MAKING MACHINERY

Special Machines Designed for Dairies

WRITE FOR CATALOGUE

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

The Dairy Test at Ottawa

More interest than usual was taken last week in the results of the three day dairy test at the Ottawa Winter Fair owing to the fact that several Ayrshires were entered. The contest the first lane was close there being Ayrshires were entered. The contest for first place was close there being only nine points difference between the first prize Holstein and first prize Ayrshire. Last year no Ayrshires competed. The results of the test were as follows:

HOLSTEIN COWS Lbs. P.c. Ttl. milk. fat. points

3rd. J. H. Caldwell, Fallow-. 212.1 3.7 215.98 Geo. Rice,

Tillsonburg, Mauder Dekol, T. A. . 216.8 3.25 210.42

Bouncing Jess 4th,

HOLSTEIN HEIFER UNDER 42 MONTHS

 Queen's Butter Girl,
 3.12
 135.52

 Geo. Rice.
 150.7
 3.12
 135.52

 Lady Colanthus De-Kol, Martin Me-Dowell,
 118.
 3.7
 126.92

AYRSHIRE COW

Armour, Geo. Jenn Armou, 186.3 3.9 206.94 White Floss, H. & J. McKee, Norwich, 143.7 4.2 168.28 Sarah 2nd, H. & J. 155.8 3.49 167.82

Clappison, 146.6 3.74 159.94 Spottie, H. & J. Mc-. 136.4 3.6 146.50

Dyment, AYRSHIRE HEIFER

98.1 3.86 118. McKee,

dean, 100.1 3.76 110.88 Blossom, R. R. Reid & Co., Ottawa, ... 95.5 3.83 106.16 Pansy 4th, R. R. Reed & Co.,Ottawa 76.6 4.08 87.88

GRADE COW Jane. T. A. Spratt,
Billings' Bridge., 187, 3.09 175.28
Rosalee, R. A. Heron,
Billings' Bridge., 169, 7 3.53 171.50
Granny, Martin MeDowell, Norwich., 151.8 3.32 150.18
Rose of Robin Hill,
Wm. Ormiston &
Sons, Columbus., 121.2 3.8 131.24
Spot, R. Reid & Co., 108, 7 3.74 116.04

GRADE HEIFER

The Ottawa Winter Fair

Continued from page 2)
There were 14 entries in the class for hunters, including two from Earl Grey, one from Hon. Clifford Sitton, five from Dr. R. E. Webster of Ottawa, and two from Mr. J. B. Duford, of Ottawa. The three first places were controlled to the control of the co

BEEF CLASSES

In the Shorthorns, the principal winners were W. C. Edwards & Co., of Rockland; Peter White, Pembroke; Jas. Leask, Greenbank; and Jos. W. Barnet, and W. A. Wallis of Kars. In Galloways, D. McCrae, of Guelph had things his own way. Prominent winners in the grade classes were B. Slattery, of Ottawa; Jas. Lerask; A. Armstrong; and R. Reed & Co., of Hintonburg. Hintonburg.

THE SWINE CLASSES.

Prominent among the winners in the rominent among the winners in the Yorkshire classes were Jos. Feather-stone & Sons, of Streetsville; P. O. Collins, of Bowesville; A. H. Foster, of Twin Elm; and Alex. Dynes, of Ottawa. The exhibitors and winners in the Parkshire degree were W. A. of Twin Elm; and Alex. Dynes, of Ottawa. The exhibitors and winners in the Borkshire classes were W. A. Wallace, of Kars, and A. Dynes. The prizes for Tamworths were pretty evenly divided between R. Reed & Co., of Ottawa, and A. Dynes. The winners in the grade classes were Jos. Featherstone & Sons, Samuel Bray, Alex Dynes, and R. Reed & Co. The three best pure-pred export bacon hogs were shown by P. O. Collins, the second, third and fourth prizes going to Jos. Featherstone & Sons. The sweepstakes for three best export bacon hogs, any breed, were export bacon hogs, any breed, were captured by P. O. Collins, with Jos. Featherstone & Sons second. SHEEP

The prizes in the Cotswold section were divided between J. W. Lee & were divided between J. W. Lee & Son, and John Sockett; in Lincolns, by L. Parkinson; in Leicesters, by G. & W. Parkinson; and in Oxfords, by J. W. Lee & Son. The prizes for Shropshires were divided between A. Shropshires were divided between A. M. Stewart & Son, of Dalmeny, John Campbell, of Woodville, and W. A. Wallace of Kars. Telfer Bros. and George Baker divided the prizes for Southdowns. The only exhibitor of Dorset Horns was R. H. Hardling, of Thorndae, and of Hampshires and Suffolks, Telfer Bros.

DERSEED CARCASSES

In the dressed carcass competition, the winners in the beef classes were A. A. Armstrong, of Fergus, Alex. Dynes, of Ottawa and W. C. Edwards & Co., of Rockland. The first, third and sixth prizes for best carcasses of three pure-bred basen hogs were taken by Jos. Featherstone & Sons, of Streetsville, the second by A. H. Foster, cf. Twin Elm, fourth and fifth, by Alex.

Dynes, seventh by P. O. Collins, and eighth by Reed & Co. In the grade classes, the winners were Jos-Featherstone & Sons, Alex. Dynes, A. H. Foster, and Samuel Bray, of Enfield.

Much of the success of the exhibi-tion was due to the hard work of Pres. Peter White, of Pembroke, and of Scc. D. T. Elderkin, of the Department of Agriculture, Toronto.

There was some complaint by the exhibitors of dairy cattle over the fact that the roof leaked badly where some of the cattle were shown. The ventilation was so poor, the exhibitors had to break some of the windows to give the stock air. It was felt also, that the results of the dairy test should have been posted earlier, as full details were not made known

full details were not made known until Friday.

The attendance was larger than in previous years. This was probably due to the addition of the horse exhibition and to the liberal advertising of the agricultural press. On the whole the attendance was not nearly as large as it should have been and us it is expected that it will be next year, owing to the success of this year's exhibition.

Good Reading for Farmers

At this time of year nearly every one is planning their reading material for the coming season. We all need to is planning their reading material for the coming season. We all need to read the very best material that we can obtain, which pertains to the business we have in hand. To this end we are always looking to find the best publication that will serve our purpose.

It is very gratifying to know that thousands of our readers have found Farm and Dairy so valuable and interesting during the past year, that they are renewing their subscriptions for 1999. We appreciate this fact and are assured by the way reveal and new subscriptions. thousands newal and new subscriptions are com-ing in to us each day that Farm and Dairy is appreciated by the best class of farmers in Canada.

The new lists we are receiving from day to day are proving this fact con-clusively and we shall do our best to merit the continued confidence of all Canadian farmers during the coming months. We have many valuable and interesting features to give our readers during 1909 and are sure that all of our present subscribers will make no our present subscribers will make no mistake in renewing their subscrip-tions to the only weekly agricultural publication in Canada which is pub-lished at the ridiculously low price of only \$1 a year. Think of it. Fifty-two issues for \$1—less than two cents

The best evidence we can give our readers of how our paper is becoming appreciated and valued is to give a few extracts from recent letters re-Icw extracts from recent letters re-ceived at this office. It is always best to let some one else "blow your horn" instead of blowing it yourself. The following good words will show in a measure the stand that Farm and Dairy is taking among its subscribers. If you have anything good to say about our paper, let us have it. Tell your neighbors and tell us. You will then be killing two birds with one stone, for the more subscribers we get,

the better paper we can give you. We have some good subscription of-We have some good subscription of-fers for clubs of new subscriptions and our live stock offers are becoming more popular than ever. Sample copies will be cheerfully sent on application to any name you may send us or any list of names.

WHAT OUR FRIENDS THINK OF US WHAT OUR FRIENDS THINK OF US

"I could not do without Farm and
Dairy. I am pleased that you have
started a feeding column in the paper
as it is a problem for dairymen to
study. The legal advisers' column
alone is worth the price of the subscription."—Jas. E. Hopkin, Manitoulin Districk, Ont.
"I am greatly pleased with the new

FENCE TALK No. 2

Find out beforehand the strength difference between Page Wire Fences and other kinds. Needn't buy blindfold any more. Test for yourself-this way:

Make the dealer give you a foot-loag piece of the horizontal wire from the other kind of fence—and a piece from a Page

Heat both pieces cherry-red. Drop them in cold water. And then-

Try to bend them-both of them.

The Page wire will be found to have taken such a temper that it will cut glass. The other wire will bend like sheet-tin and

That test proves Page wire to be "high-carbon" wire that will take a temper-which simply means it is high class-lots of steel in it-hence far greater strength, toughness, power to stand strain and stand up.

And that test also proves other fence-wire to be merely "hard drawn" that softens if you try to temper it. Such wire must stretch too much in service-must make only saggy fencesmust give out in short order.

Make the test first; you'll see then why the cent or two more Page Wire Fence costs per rod is a great investment—because it gets you a fence that will outlast other kinds two-to-onebecause Page Fence is fully a third stronger than the others.

And you will see, too, that this great strength makes it possible to stretch Page Fence tighter-and to use fewer posts to hold it tight. The saving in posts figures 5 to 8 cents a rod—and yet the Page Fence will be a stauncher fence.

Let us send you a booklet that proves why Page Fences wear best and tells how you can prove fence-quality before you buy it. Get the booklet from the nearest place of the Page Wire Fence Co., Ltd., Walkerville, Toronto, Montreal, St. John, Vancouver, Victoria.

"PAGE FENCES WEAR BEST"

WAKE UP ON TIME!

By on aining for yourself, free of cost, one of our dandy Nickel Plated Alarm Clocks, which we give absolutely free for only ONE NEW SUBSCRIPTION to Farm & Dairy at \$1. a year. These clocks are well worth trying for and you will find that one new subscription is most easy to obtain for a paper like Farm & Dairy. Samples sent on application. FARM & DAIRY, Peterboro.

'A I re Dai care ever Bra " mov my how

nar

like

M.

tion which Dair -T. lent appr Hast

and amo taine which new subsc must Script Algor

Dairy spare Farm thing better Elgin and D

ber o every yet."paper Brant

and w Anı The dian Jon That the those ard agent, Dom

day, F Breede Toront 7 p.m. Domi tion.nesday House, 3rd, 1:

tion.-

Ontar tion.—I Domi ruary 5

name of your paper Farm and Dairy as the old name was far too long. I like Farm and Dairy very much and would not like to do without it "— M. G. Gould, Renfrew Co., Ont.
"I am in receipt of the post cards," A Trip Around the World, "which I received as a premium for securing one new subscription to Farm and Dairy. I wish to thank you for these cards as they are the nicest set I have ever seen."—Orpha MacCoubrey Brant Co., Ont. ever seen."-Brant Co., Ont.

Brant Co., Ont.

"As I am giving up farming and moving to the city I will not renew my subscription to Farm and Dairy this year. If I was to be on the farm however, I would not do without Farm and Dairy as I consider it a paper that any farmer needs for information on dairying."—Alex. McKay Albena, Mich. Alpena, Mich

Alpena, Mich.

"We received the fountain pen which you so kindly sent us for securing one new subscription to Farm and Dairy, and are much pleased with it."

—T. Faton, Fitt Meadows, B. C.

"Accept my thanks for your excellent premium of picture post cards. They are the best value I have ever seen for securing only one new subscriber. Farm and Dairy is much appreciated." Homer J. Maybee, Hastings Co., Ont.

seen for securing only one new subscriber. Farm and Dairy is much
appreciated." Homer J. Maybee.
Hastings Co., Ont.
"Every farmer should take Farm
and Dairy. There is an immense
amount of useful information contained within its pages."—P. C. Buchner, Norfolk Co., Ont.
"I received my watch all-right
"I received my watch all-right
ones subscription to Farm and Dairy.
It keeps good time and I am very
nuch pleased with it."—Thes. Purkiss, Langley, B. C. picture post cards
as a premium for sending in one new
subscription to Farm and Dairy and
usust say that they are worth the subscription price alone."—W. J. Hopkin.
"I am well pleased with Farm and
Pairs and wand like he are some new

Algoma, Ont.
"I am well pleased with Farm and
Dairy and would like to get some new
subscribers in my vicinity in my
spare time."—D. D. Bowman, Oxford

spare time."—D. Bowman, Oxford County, Ont. "I do enjoy the weekly visit of Farm and Dairy. It tells me some-thing I like to hear and it is getting better each issue."—R. R. Jones. Elgin Co., Ont. "I am an old subscriber to Farm

"I am an old subscriber to Farm and Dairy, having taken it for a num-ber of years. It is getting better every year. Every issue is the best yet."—M. Michael, Welland Co., Ont. "You are publishing a very good paper in Farm and Dairy,"—Davide Wilson, Cardwell Co., Ont. "Farm and Dairy has a bright future before it."—Leslie Tennant, Brant Co., Ont.

future before it."—Leslie Tennant, Brant Co., Ont. "I like Farm and Dairy very much and would not like to be without it." H. Lawrence, Huron County, Ont.

Annual Live Stock Meetings

The annual meeting of the Canadian Jersey Cattle Club will be held on Thursday, Feb. 4th, at 10:30 a.m., at the Walker House, Toronto. All those attending should secure stand-ard certificates from the railway ard certificates from the railway agent, which will entitle them to re-

duction on the return journey.

Dominion Cattle Breeders' Association.—Temple Building, Toronto, Mon-

day, February 1st, 2 p.m.
Ontario Large Yorkshire Swine
Breeders' Association.—Palmer House,
Toronto, Tuesday, February. 2nd

Toronto, Tuesday, Petruary Association.—Temple Building, Toronto, Wednesday, February 3rd, 9:30 pm.
Ontario Berskhire Society.—Palmer House, Toronto, Wednesday, February 3rd, 1:30 pm.
Ontario Berskhire Society.—Palmer House, Toronto, Wednesday, February 3rd, 1:30 pm.
Ontario Bheep Breeders' Association.—Temple Building, Toronto, Friday, February 5th, 9:30 a.m.
Dominion Sheep Breeders' Association.—Temple Building, Friday, February 5th, 1:30 p.m.

Oil Cake vs. Ground Flax Seed

I read with much interest and profit the able article in your issue of Dee, 18th rout titled "Oil Cake as a Stock Pood," by Mr. F. B. Warren. B. S. A. to all of which I heartly agree. The only criticism that I have to offer is that these commercial to have to offer in the three commercial to have to offer in the three commercial to have the commercial to have the commercial to have the commercial to the c I read with much interest and profit the

is unadulterated—M. R. Fenthill, Ont.
Flaxseed meal, that is ground flax
seed from which the oil has not been
expressed is a very valuable feeding
purposed. It is, however, for many
purposed. It is, however, for many
purposed. It is, however, for many
the oil has been extracted. The
seed meal is very valuable in small
quantities for all classes of live stock.
It is, however, not so safe to feed it
very generously. Oil-cake meal is a
valuable feed for all classes of live
stock, and may be fed quite freely,
although it too may not be fed with a
too free hand. Flaxseed meal is particularly valuable in small quantities
for calves and young breeding stock. for calves and young breeding stock.
Oil-cake meal is unequalled as a feed for beef and milk production. It is likewise of very great value for horses,

either working or breeding. Flaxseed sells on the open market Flaxseed sells on the open market for about double the price that oil cake meal will command. It is not as valuable for beef cattle, dairy cat-tle, horses or sheep as the oil cake meal. It is, however, worth more for calves, or small pigs, or as an occa-sional feed for the other classes

named.
Flax is a very exhausting crop on the soil. If grown in small quantities along with other grains, this feature might possibly be of very minor consideration, but is worthy of notice. Oil-cake meal is no doubt adulterated more or less, but even so, at prices more or less, but even so, at prices of the control of t

Corn Fodder for Horses

I have a large quantity of well cured core fodder and am rather short of hay, and the straw is not much good on account of the heavy rains after being cut; it was also somewhat rusty. Would you think it advisable to feed much fodder corn to idle horses and coits?—F. McP., Glanford Sin. Ont.

Fodder corn free from mould or other fungous growths is very suitable for feeding to horses. The best plan other fungous growths to were suitable for feeding to horses. The best plan to follow would be to run best plan to follow would be to run best plan to follow would be to run lead to follow would be to run folder through the cut be an along with it a small proportion of straw and hay. Not more than enough to last a week or ten days should be run through at a time, unless there is a large floor space on which it can be apread so loosely as to insure its not heating. In cutting the corn fodder for horses be careful to keep out any dirty, dusty or partly decayed stalks. Such stalks or bundles may be advantageously and safely fed to cattle. They are apt to induce digestive troubles which might lead to heaves in horses. To feed along with the corn fodder, I would suggest a meal nixture of whole oats and brane, equal parts by weight for idle horses, three casts and one of bran for working the state of the corn fodder of the mixture or say 16 bs. corn fodder, the mixture or say 16 bs. corn fodder, by working add ten to 15 pounds of the three oats, one bran

The Feeders' Corner is for the use of sylicid to ask questions, or send items of interest. All questions will receive prompt attention.

Better Express Service Wanted A deputation of prominent fruit grovers met the Board of Railway Commissioners in Toronto recently and alid complaints, against the agreement of the control of the contr A deputation of prominent fruit growers met the Board of Railway Commissioners in Toronto recently and laid complaints against the express companies. They asked that the com-panies be compelled to give lower and more uniform rates and to handle the fruit with greater ages than how been more uniform rates and to namue the fruit with greater care than has been the custom in the past. Mr. W. H. Bunting, of St. Catharines, stated that many growers have stopped shipping many growers have scoped snipping by express and have taken to freight on account of the unsatisfactory ex-press conditions. He referred to losses during transportation and to the diffiduring transportation and to the diffi-culty in securing settlement of claims. It was pointed out that the growers take the fruit to the ears themselves and that same is unloaded, in the case of Toronto, by the commission men, the express companies thereby having less trouble with it than with ordinary merchandise and therefore should give

merchandise and therefore should give lower rates.

Mr. James E. Johnson, of Simcoe, showed that express rates from Simcoe to Hamilton and Toronto are much higher than from St. Catharines to these cities atthough the distances are about the same. He claimed that while shipping fruit out of Chicago he had found the express companies in

the United States willing to pay losses from damage to the fruit caused by delays in transit for which the railways were responsible

Mr. E. D. Smith, of Winona, pointed out that if Ontario growers are to compete in the western Canada markets against the fruit from California and Oregon which, owing to its dry texture is shipped there by freight, it must be forwarded by express. The texture is shipped there by freight, it must be forwarded by express. The express companies' charges are so excessive it makes it difficult for Ontario growers to do so. He protested against the claim in the agreement, that the express companies compel the shippers to sign, relieving the former of any liability for damage to the fruit caused by delays to the carge while in transit. Mr. Smith thought that the express commanies should be that the express companies should be liable for such loss.

A number of other growers address ed the commission. A deputation from Grimsby asked for a general reduction in express rates, a graded rate on size of shipment, the stopping of

LL DRILLING MACHINES

WILLIAMS BROS., Ithnen, N. Y.

Great Combination Sale

BY AUCTION

FRIDAY, FEBRUARY 5th, 1909

There will be offered at the

UNION STOCK YARDS, WEST TORONTO

The following High Class

Ayrshires and Yorkshires





By A. A. MORDEN & SON, Wellington, Ont. HIS ENTIRE HERD OF HIGH CLASS AYRSHIRES

Comprising twenty head, eleven of which are cows in calf of the highest producing capacity and choicest breeding, being extractions from the well known herds of Alex. Hume, Wm. Stewart and Sons of Merice, and A. Terril, Wooler.

By DONLANDS FARM, Donlands, Ont.

Twelve Ayrshires choicest breeding and merit. Stock selected personally by Mr. James Boden from best herds in Canada, from such sires as Howies, Fizzaway, Cross of Knocdon, Napoleon of Auchenbrain.

Thirty Yorkshires of breeding age. Both sexes. From imported and homebred stock.

By R. E. GUNN, Beaverton, Ont., Dunrobin Farm. A selection of his choicest young Boars.

By F. M. CHAPMAN, Pickering, Ont. High class young Sows in pig.

For terms, catalogues, etc., apply to

A. LEITCH, Donlands, Ont., (Manager Donlands Farm) A. A. MORDEN & SON, Lake Ontario View Farm, Wellington, Ont.

Auctioneer, GEO. JACKSON, Port Perry, Ont.

pilfering and the rough handling of fruit, the placing of responsibility for delay in handling fruit, proper accomdelay in handling fruit, proper accommodation and suitably ventilated cars. After hearing the evidence, the chairman of the coumission, Judge Maybee, ordered the express companies to confer with the fruit men with a view to meeting their wishes.

Danish and Canadian Bacon

(Continued from Page 5).

(Was should, however, be sure that we know what a bacon hog is. It is not necessarily a long legged, unthrifty animal. A good bacon hog weighs more than most people expect. They have good bones and are well fleshed and weigh better than fat saximals.

INSURE



YOUR **TALLIONS**

Just as You Insure Your Buildings

The loss of a stallion represents a certain capital, the reimbursement of which comes in handy to replace the lost animal whether death be due to accident or disease.

On payment of a small premium our Company will insure your Stal-lion, as well as your Horsea, Mares, Colts, Fillies, Bulls, Cows. Calves, Hogs and Sheep against death by accident or disease.

Booklet Sent Free on Demand

Agents wanted in unrepresented dis-tricts where resides a veterinary

CENERAL ANIMALS INSURANCE CO. OF CANADA Bept. C., New York Life Building, Montres

"The English bacon consumer is very particular about what he eats. If he does not get what he wanted does without. If we, therefore, do not give him the article he demands we are forced to sell in another market. The poorer classes in Great Britain consume the cheaper class of bacon which is supplied largely by the cheap American fat hog. If, therefore, we cannot supply the Witshire sides, which sell at the highest prices, we must compete against the cheap suces, which sell at the highest prices, we must compete against the cheap United States product. It is because we put many hogs with thick fat necks and similar defects on the market that much of our pork sells at a disadvantage." disadvantage.

Fairs Meeting

The annual meeting of the Eastern Ontario Fairs' Asso in Ottawa last week. Association was held

in Ottawa last week.

The officers elected for 1999 are:

The officers elected for 1999 are:

Prea., R. J. Jelly, Brockville; 1st vice-pres., James Irving, Winchester; 2nd vice-pres., W. K. Farlinger; sectreas, R. B. Faith, Ottawa.

Interesting addresses were given pertaining to suitable exhibits at fall fairs, by Mr. A. G. Gilbert, in charge of the poultry department, and by Mr. W. T. Macoun of the fruit department at the Experimental Farm, Ottawa.

Mr. H. B. Cowan, of Peterboro, Ont...

Editor-in-chief of Farm and Dairy and former provincial superintendent of former provincial superintendent. former provincial superintendent of agricultural societies, and Supt. J. Lockie Wilson of Toronto, gave addresses. Mr. Cowan claimed that Ontario would be better off if it had 250 instead of over 350 agricultural societies.

ties as the societies then would be larger and could offer better prizes.

Mr. Wilson, who is provincial superintendent of fairs, advocated having spring and fall stock shows and also crop competitions

Items of Interest

The Canadian Seed Growers' Association will hold their annual meeting at Ottawa. February 4th and 5th.

The Ottawa City Dairy Co. have added a bacteriological department to their plant. Mr. T. H. Binnie, B.S.A., of Durham. Ont., is in charge of the department.

department.

A case of infraction of the Act respecting the inspection and sale of food was recently tried in Orangeville in which the defendant, Mr. Sam. Duck, of Grand Valley, was convicted and fined, his fine and costs amounting to over \$40. He had purchased a ouanity of ordinary butter which he branded as creamery. He also secured a number of wrappers so marked. a number of wrappers so marked which he supplied to farmers' wives. The butter for the most part found its way to Toronto, where it was confiscated.

A Corn Growers' convention and exhibition will be held in the Town Hall of Essex, Ont., February 9th to 12th

Inclusive. It is being arranged for by the Essex Branch of the Ontario Department of Agricultus many the Essex Branch of the Ontario Department of Agricultus many the Essex Branch of the Ontario Department of Agricultus many the Essex Branch of MacConald College, Que, will place the awards. Mr. Bigger, many ager of the Walker Farm, J. O. Duke and other practical men will be present and take part in the discussion and assist in the work.

Mr. T. C. Martin, editor of the Dundee "Advertiser," who was a member of the commission that visited Canada in 1908, in addressing the Farmers' Club at Dundee, Scotland, recently,

The Canadian Bank of Commerce

ANNUAL MEETING OF SHAREHOLDERS

to on 12th January.

After submitting to the meeting the Directors' report for the past year and the balance sheet, the General Manager addressed the meeting. He spoke in part as follows:

GENERAL MANAGER'S ADDRESS

The net profits of the past year show a decrease of \$125 016.89 as compared with the figures of the previous year, but they are slightly in excess of 16½ per cent. on the paid-up capital and under the circumstances we feel that this result is a very satisfactory one. Had it not been that the volume

of our loans was well maintained during the early part of the year, the de crease would have been much greater. We have paid the usual dividends at the rate of 8 per cent. per annum, and after providing for customary payment to the Pension Fund and for payment to the Pension Fund and for some special subscriptions, and add-ing \$1,000,000 to the rest, we have been able to set aside \$300,000 for Bank Premises Account, and to carry forward undistributed profits of \$161.-244.88. This emphasizes the position this Bank is in as regards the maintenance of its present rate of dividend, and, while some of the share-holders may feel that they are entitled to a larger distribution of the profits of the Bank, we believe that the maj ority will agree with us that the pre sent moment, when we are facing a period of diminished demand and conperiod of diminished demand and con-sequent lower rates for money, is hardly opportune for the considera-tion of this question, and that policy your Executive has followed of strengthening the foundations of the Bank is that which will tend most surely, in the not distant future, to the realization of the hopes of those who look for increased returns. It is possible that some may think our expossible that some may think our expenditures on bank premises might now be lessened to some extent, and in this connection we may say that the principal buildings which we feel at the present time are necessary should, in the course of the next two years or thereabouts, be completed. But the rapid extention of the Bank in the newer play govern to the chief of the property of the new districts, are constantly making demands upon us for accommodation which we find it difficult—indeed, well nigh impossible—to obtain in any other way than by erecting our own buildings.

During the year our deposits have increaser. by \$7,996,738, or almost eight million dollars, of which about six million dollars is in deposits bearing interest. It may be interesting to note that, starting last year with de-posits of 187,041.057, some of which were of a temporary character, being balances of large accounts in process

The forty-second Annual Meeting of the Shareholders of The Canadian Bank of Commerce was held in Toroto on 12th January.

After submitting to the meeting the Directors' report for the past year and blies of the Bank of Commerce was the Canada and the Shareholders of the Bank of Canada Man. On the other side of the balance sheet, the General Man. our loans stand at \$87,692,785, as com-pared with \$88,768,829 in our last report the decrease being mainly under the heading of "Current Loans and the heading of "Current Loans and Discounts" which represents almost entirely our share of the commercial loans of the country. In this tent the decrease is \$7.378.622; while, on the other hand, our Call and Short Loans have increased \$5.241,327.

We have not had a recurrence of the difficulties attending the marketing of our crops, and perhaps a word on this question will not be out of place. There was little or no apprehension of There was little or no apprehension of stringency during the crop season. Our easier financial position, the wise provision for an emergency circulation, and the fact that a large portion of the crop was moved with exceptional rapidity before the close of navigation, all tended to obviate these difficulties; still there is much need to consider seriously permanent measurements of the consider seriously permanent measurements of such large principles of the consider seriously permanent measurements of such large principles of the consider seriously permanent measurements of such large principles of the consideration of the considera a larger amount of bank capital available as a basis for our circulation, but, even with a considerable augmentation of bank circulation and the thoughtful interposition of Government measures of relief, we shall still be brought face to face with the difficult problem of taking care of immense stores of grain after the close of navigation, when the Interior of the Company of th

their low point—\$64,774,000—the Canadian banks held deposits elsewhere than in Canada amounting to \$54,819. than in Canada amounting to \$84,819, 000, so that not more than \$10,000,000 of Canadian funds were being lent outside Canada. Moreover, the larger portion of these loans is carried in New York at 24 hours' call—practi-cally as readily available as eash, Ex-cept at rare intervals, New York call

PETER HAMILTON Corn and Straw Cutters

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

PLOWS

Farmers everywhere testify to the splendid work of our plows

Better Get One

The Peter Hamilton Co. Peterborough,

Nitrate of Soda

The Nitrate Agencies Company

Toronto, Canada

Orders for All Quantities Promptly -Write for Quotati

desirable to mention the name of this publication when writing to advert

loans bear a much lower rate for in-terest than Canadian mercantile than Canadian mercantile coans; than Canadian mercantile coans; masquently the banks aim to carry common at call in New York as, the coans carried the coans can be carried bere, will constitute reasonable reserve of cash and immittely real izable funds. Notwithbunding all that financial critics with the coansel of the c that financial critics have written

about the Canadian banks sending to New York moneys needed in Canada in order to take advantage of the high rates occasionally prevailing there, such a thing as a bank curtailing its commercial loans in Canada for sections in Canada, of even the small-commercial loans in Canada for sections in Canada, of even the small-commercial loans in Canada for sections in Canada, of even the small-commercial loans in Canada for sections in Canada, of even the small-commercial loans in Canada for sections in Canada, of even the small-commercial loans in Canada for sea kind, for such a temporary advantage. Self interest will at all times be a sufficiently weighty force to prevent the banks from lending Canadian

funds outside of Canada, except to the extent that is necessary for the purposes of their cash reserves.

purposes of their cash reserves.

From the figures quoted before it
will be seen that, so far from the
business interests of Canada being
prejudiced by the policy of the Canadian banks in this matter, they are (Continued on page 22)

Every Safe Lock Shingle is made to meet the rigid requirements of the Brit Sovernment for Admiral and other Public Service



HE British Government require E british Government requires all galvanized steel roofing for Admiralty or other public work to be of specific grade and to be capable of withstanding a

be capable of withstanding a certain acid test.

The acids used for this purpose are strong enough to burn the skin off a man's hand, and yet the galvanizing must be heavy enough to withstand their action for a definite period.

Exposure to wind, rain and snow for a quarter of a century is much less destructive than this acid test. Yet every Safe Lock shingle is guaranteed to meet the Government requirements

anteed to meet the Government require-ment in this and all other respects.

No wonder that those who have used Safe Lock Shingles declare that they

will last as long as the buildings they

Safe Lock Shingles are the only shingles that actually lock on all four sides so that they cannot pull apart. Shingles which do not lock on four sides are not Safe Lock Shingles. Again: Safe Lock Shingles are the only shingles that completely protect the roofing nulls from weather.

the roofing nails from weather.

The only shingles that have three thicknesses of steel along the upper edge of lock, thereby doubling the strength along the line of greatest

The only shingle galvanized after the sheets have been accurately cut

to proper size for Safe Lock Shingles.

-The only shingle with galvanized

edges.

—The only shingle sold with a posi-tive protective guaranty against light-ning, backed up by a free insurance policy signed and scaled by the manu-facturers, the Metal Shingle & Siding Company, a \$200,000.00 Canadian cor-rogation. poration.

Every Canadian farmer who expects to put up a new barn or house or to re-roof old buildings is directly in-terested in this extraordinary free

Think of it! A straight-out lightning insurance policy free from con-ditions of any kind. It is the most liberal roofing offer ever made to Canadian farmers.

again rarmers.

Insurance records show that one-half the fire losses on barns in Canada result from lightning. The property loss in these cases amounts to many thousands of dollars every year.

Safe Lock Shingles have been on the market for more than ten years, and in all that time no building cov-ered with them has ever been harmed

by lightning.

This proves to us that Safe Lock roofing is a positive guaranty against lightning.

Anyway, we are willing to show our faith in Safe Lock Shingles and will protect you from lightning without one cent additional cost to you, directly or indirectly.

Safe Lock Shingles are sold at the same price as shingles known to be inferior in quality of steel, galvanizing and construction

and construction,
Safe Lock Shingles lock positively
and securely on all four sides. They
cannot be blown off, nor can they be
pulled apart through the warping of
the sheeting, or in any other way.

And remember this—

No other shingle is a Safe I Shingle.

Safe Lock Shingles can be foun in every part of the Dominion of Canada where they have been subject to storms of all degrees

of severity.

No building covered with
Safe Lock Shingles has ever
been unroofed.

We want you to know what some of the users of Safe Lock Shingles say of them.

R. T. McLAUGHLIN, Fair View Farm, Alba, Ont.—"The 'Safe Lock' makes your shingles absolutely wind and water proof. They are the best shingles on the market to-day."

F. B. DOUD, Branchton, Ont.—"The Galvanized Steel roof is apparently as good as when put on in 1898. The 'Safe Lock' Shingles make a lasting, storm-tight roof, and give clean eistern water. "I am satisfied that I put on a good roof."

W. J. MePHERSON, Berryton, Ont.—"The 'Safe Lock' Shingles that I purchased from you ten years ago have given splendid satisfac-tion. The roof has never leaked a drop, and they seem to be just as good as the day they were put on."

good as the day kney were put on.

J. C. PAYNE, Cayuga, Ont.—'It must be ten years now since I bought the metal 'Safe Lock' Shingles, and up to this time I have no reason to regret their purchase. We have had wooden roofs put on bought the metal 'Safe Lock' Shingles, and up to this time I have no reason to regret their purchase. We have had wooden roofs put on since which are open in spots from the splitting and shrinkage of shingles. No difficulty, so far as I have noticed at least, has arisen with your Metal Shingles, and the roof seems compact and durable, and the roof seems compact and durable, the shingles during the ten years' use, and cannot see but that the roof is just as good as when it went on."

MURDOCK McKENZIE, Bear Line, Ont,-"The 'Safe Lock' Shingles have never given me any trouble, and they appear to be as good to-day as the day I put them on. I am well satisfied with them, as I believe them to be the best roofing that can be used on barn buildings."

GEO. HARDY, Ashgrove, Ont.—"It will be eight years in June since the burn was shingled. I never had any trouble with it in any way, and it appears to be as good as when put on. I have been recommending your shingles as the best that can be got."

recommending your shingles as the best that can be got.

MRS. JAMES STEWART, Pendleton, Ont... 'In reply to your
letter asking about shingles I bought from you over five years ago.
I looked the roof all over to-day, and they seem to be in as good
condition as when they were put on the roof. The shingles don't seem
to be any the worse for wear, and they will last for years.''

Send to-day for our book, "The Truth about Roofing" and full details of our Fire Insurance Policy payable in cash if your Safe Lock Roof is damaged by lightning.

The Metal Shingle and Siding Co. Ltd.

"Roofers to the Farmers of Canada" Dover Street Factory, Preston, Ontario Branch Factory, Montreal

CUT OFF THIS COUPON AND MAIL TO US

a / /						Company,	
1/11	length of		MIC LOCK LIE	htning	th about Re Insurance F	oofing," with full	particulars of
1 4//	roof along ridge; also	I expect t			Kind	of Building	
ill rids	distance from ge to eaves, and	1	If intereste	d in any	other Met	at Building Good	s please state
cost of	a Safe Lock Re		ame		**** *****		
	asurestt		P.O			Province	

FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Com-pany, Limited.



FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Quebeo Bairymen's Associations, and of the Ganadian Holstein, Ayrshire, and Jer-sey Cattle Breeders' Associations.

try datus breeders Associations.

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

wo new subscribers.

2. REMITANCES should be made by Post Office or Money Order, or Registered cetter. Postage stamps accepted for amounts less than \$1.00. On all checks dd 20 cents for exchange fee required at hanks.

4. CHANGE OF ADDRESS — When a change of address is ordered, both the old and new addresses must be given. 5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

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

The paid-in-advance subscriptions to Farm and Dairy exceed 8,000. The actual circulation of each issue, including copies of the paper sent subscribers who are but slightly in arrears, and sample copies, varies from 8,000 copies to 12,000 copies. subscriptions, unless renewed, are discon-tinued as they expire. No subscriptions are accepted at less than the full subscrip-tion rates. Thus our mailing lists do not contain any dead circulation.

Sworn detailed statements of the circulation of the paper, showing its distribution by countries and provinces, will be mailed free on request.

OUR PROTECTIVE POLICY

We want the readers of Farn and Datry want the readers of Farn and Datry want the readers of Farn and Datry with the property of the property

FARM AND DAIRY PETERBORO, ONT.

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

FOREST PROBLEMS OF ONTARIO

Forest problems in Ontario are weighty ones. They should receive proper attention. As has been pointed out by Farm and Dairy in past issues there are many acres in various counties wholly unsuitable for agricultural purposes. In some parts, these non-agricultural lands have been abandoned; in others, people are still endeavoring to eke out an existence upon them

The poorness of this existence has been ably pointed out by Prof. E. J. Zavitz, of the Ontario Agricultural College, when he showed that some lands in Norfolk County after a century of tillage only produce \$3.75 an acre. These lands at one time were covered with most valuable timber. It would have been an immense saving to the country both in money and It is not enough that farm seed ought to be.

to remain producing continuous crops of valuable pine and oak, rather than to allow generation after generation to wear its heart out forcing these non-agricultural soils for the pittance that they return. Much of the land in question is light and sandy soil which washes to the lower levels and is drifted before the wind.

The extent of these lands is in no wise inconsiderable. The County of Lambton is said to have 40,000 acres of such land; South Norfolk, 10,000; Simcoe, 60,000; Durham, 6,000; and Northumberland, 8,000 acres. These lands in their present state are practically "no-tax" lands and thus return nothing to the community. They were once heavily timbered. All experience goes to show that these lands can be reforested and made to produce profitable forest crops.

The Government have wisely made a start in re-foresting these areas by setting aside 100 acres of non-agricultural land in Norfolk County, where they have established a forest plantation and nursery. While this beginning is commendable it is not extensive enough. Re-foresting should be started on these other areas as soon as possible.

As pointed out previously by Farm and Dairy, the waste lands in Durham and Northumberland counties offer the best prospects for establishing a forest reserve and nursery as they are readily accessible to the railroad on the C. P. R. We would suggest to the Hon. J. S. Duff, the Minister of Agriculture and to the Ontario Legislature that the necessary funds for carrying on this work, be provided for at the coming session.

SELECT YOUR SEED

So much has been said about seed selection in recent years that one might deem it unnecessary to deal further with this question. Results from such efforts, however, are by no means what they should have been. In spite of a better knowledge, we continue year after year to take our seed in the spring from what is left in the granary after the sales have been made and the stock fed throughout the winter. Frequently too little is left for seed purposes and it is necessary at the last to be careful not to clean it too thoroughly, lest there be not enough to seed the acreage planned.

Again, the work of cleaning, that should be done in slack times throughout the winter, is left until the land is ready to seed when an urgent call is made upon the supply at hand and little thought is given to cleaning. That it pays to clean seed thoroughly, and even to make a wiser selection before threshing, doing this work at harvesting time when the individual plants can be seen in the field, is demonstrated by the results obtained by the members of the Canadian Seed Growers' Association, Seed not unlike animals is susceptible to improvement through judicious selection. Greater returns can readily be obtained by thus breeding up seed

in men to have allowed these lands | should be graded, germination tests besides are also advisable, especially with the more important grains such as corn. These precautions should be taken by all who grow their own seed, and seedsmen should test them for the benefit of their patrons. Seed of prime quality and uniform size is one of the most important factors in crop production.

LOWER EXPRESS RATES NEEDED

Speaking, on behalf of the Dominion Grange before the Railway Commission in Toronto recently, of the express service, when the carriage of fruit, vegetables, butter and poultry products was under consideration, Mr. W. L. Smith touched upon a vital point when he said that the very best butter made in Ontario was produced by the skilled housewife, but, after this butter reaches the consumer through the country store, the commission house and the city retail grocer, it was almost certain to be injured by contamination.

To overcome and avoid this injury, direct shipment of butter is necessary. The minimum express charge of 25 cents for the smallest package has been very much in the way of making such shipments. Customers do not care to get more than a few pounds of butter at one time, and the charge of 25 cents on such quantities is practically prohibitive. If for short distances a charge of 15 cents were to be given by express companies for small parcels of butter, it would greatly facilitate the marketing of dairy butter in its original first-class condition. Such a rate should be given. In Great Britain, the post office service handles direct to the house of the customer for 15 cents.

BE UP AND DOING

The responsibility resting upon each one of us as farmers was clearly pointed out by Mr. C. C. James, Deputy Minister of Agriculture, at the recent convention of the Western Ontario Dairymen's Association at Brantford. He stated that if we could only get farmers to drain and clean up their farms and use good seed, so that the quality and quantity of crops would be better, then weed out the old, useless cows, and give the good ones a chance, then handle the milk properly and equip their factories as they ought, farmers would be wealthy men

The burden of responsibility rests upon each of us individually. The government, through its various branches of the agricultural department, have done much for us. The agricultural press and other mediums of disseminating the knowledge and information gained through experiment station work and the experience of successful farmers have done their part towards informing the people. It is for us to say what we will do and what success we shall make of farming in the years to come. These other agencies have done their part. It is up to use to make the application. Let us do it to the best of our ability this coming season and in doing so make our calling the business that it

VENTILATION NEGLECTED

Fine barns that fill the eye of the . traveller dot the landscape in all of our more progressive farming districts. It is a great disappointment, however, to enter the stabling of most of these fine farms. In a great majority of them, no pretence whatever is made at ventilation other than the little secured by the necessary opening of the door to let the stock in or out. In addition to the failure to provide ventilation, many of the barns have little light as well. This is especially true of the older barns.

While in the central portion of Ontario recently, a representative of Farm and Dairy was impressed by the magnificent outward appearance of the barns there. On entering them, however, he was shocked to find the poorly laid out condition of the stables, the total absence of ventilation, the wholly inadequate supply of light and in nearly every instance the ceilings festooned with cobwebs. Should disease get a hold in these stables their owners would have small chance of exterminating it under existing conditions. Those who are planning a re-arrangement of their stables or building new ones this coming season should not fail to make provision for ventilation and the admittance of light.

SHEEP HUSBANDRY IN CANADA

of w

ag

bu tro pl ba les ye is br de fu be

an sir wh

for

ist

wi

cre

me

ma

had

car

cre

Complete in every detail is the bulletin, "Sheep Husbandry in Canada," prepared and edited by J. B. Spencer, B. S. A., and published by authority of the Hon. Sydney Fisher. Minister of Agriculture, Ottawa. The treatise is presented to the public with packages of this size, carrying them the object of encouraging a revival of the sheep industry, which, for some years, has not been progressing as rapidly as might be wished, especially in view of the fact that many districts in Canada are eminently suitable for the profitable pursuit of this branch of animal husbandry. The work is especially valuable as a means of supplying information regarding the breeding and care of sheep, as it deals with sheep raising in all its phases.

Feeds for sheep, the housing of sheep, and their animal enemies, are dealt with fully. A review of the sheep industry in the different provinces of the Dominion forms a most interesting feature; while the diseases of sheep by J. G. Rutherford, Veterinary Director-General and Live Stock Commissioner, is a most valuable part of the bulletin. Illustrations of the various breeds of sheep, pastoral scenes, and cuts showing good and indifferent types and right and wrong methods of handling illuminate the pages. The work throughout is printed on a fine grade of paper which makes it very attractive. Much credit is due Mr. Spencer for his work, and the Department of Agriculture for publishing this bulletin, which should prove invaluable to our farmers and to the sheep industry of Canada.

When writing advertisers take advantage of our Protective Policy, as printed in another column of this page, by simply mentioning "I saw your ad. in the Farm and Dairy."

Creamery Department
Butter Makers are invited to send contributions to this department, to ask questions on
matters relating to butter making and to suggest subjects for discussion. Address your
letters to the Creamery Department. Butter Makers are invited to send contribu-tions to this department, to ask questions on the send of the send of the send of the send gest subjects the form of discussion. Address your letters to the Gramery Department.

The Creamery Outlook*

Prof. H. H. Dean O. A. C. Guelph. Prof. H. H. Dean O. A. C. Gueiph.
Because of the fact that in these
modern times people say, "give us the
luxuries of lite and we will do without
the necessaries," and because of this
other fact that the cheese factories
now have rivals in the milk condenseries and in the large and growing demand for milk in towns and cities
which will keep them pretty busy to
meet the competition offered—in these
facts lie the hopes of creamerymen.
The demand for first-class butter
seems difficult to fill. Tons and tons
of butter from cold-storage are used
during winter, though we have never
seem any first-class butter come out of
a cold-storage after holding it for two
seen any first-class butter come out of
a cold-storage after holding it for two
with a cold-storage after holding it for two
with a cold-storage after holding the free
winter trade with fine, fresh butter
which commands from \$2\$ to \$5\$ cents a pound, it would be a paying business.

About the only alexander of the Because of the fact that in these

About the only element of discord About the only element of discord in the creamery outlook at present is the bad state of trade in Great Britain. At one time we might have been alarmed on reading: "We in England are able to get plenty of butter from all parts of the world, and do not at 10 parts of the world, and do not at 10 parts of the world, and do not at 10 parts of the world, and do not at 10 parts of the world, and the world, and the world, and the world world with the world with the world world with the world wo

ter under normal conditions.

The outlook for creameries then is very satisfactory from the market end of the business and we need not worry ourselves in Canada that out of nearly 400,000 packages of butter received in Montreal last year, only a little over 90,000 were exported. It is estimated that the total make of Canada that the season of the sea The outlook for creameries then is

becoming more and more a necessity.

THE OTHER SIDE OF THE PICTURE

He who looks on the rosy side of life is usually welcomed everywhere. The world is looking for optimists and usually has little use for a pessionist, who has been defined as one with the signer of the world of the same of the same of the same of the same of the defect of the same of the same of the defect of the same of THE OTHER SIDE OF THE PICTURE Counter & Clubb were men in trade

whose pains,

Credit and Prudence brought them constant gains.
Partners and punctual every friend

rartners and punctual every friend agreed Counter and Clubb were men to sueWe have here the very essence of commercial success—"pains," "credit," "prudence," "partners," "punctuals—who would not succeed under than who would not succeed under these conditions?

these conditions? Confucius said: "It is only the supremely wise or the deeply ignorant who never alter." Some men are so "oo," in their ways, that the very idea of the supremely with the supremely with the supremely supremely

PRACTICAL SUGGESTIONS

PRACTICAL SUGGESTIONS

The Farmer's Side of the Question.

—There is great need of more milk and cream and cheaper production.

Most of our creameries are not running to full capacity for more than the production of the second of the second

Tainted cream, thin cream, not suffained cream, thin cream, not sufficient to make it a paying proposition—these are points which must be considered by every dairy farmer who sidered by every dairy farmer who patronizes a creamery and these are defects for which the farmer is responsible. During the months of October and November each year the O. A. College our creamery reputation is in great danger of being lost and cer-

great danger of being lost and certainly receives some very severe jolts through careleasness on the part of patrons who allow cows to eat turnip tops and who send cream that is impossible to make into fine butter. Cost of Hauling Cream.—Closely associated with the foregoing is the question of hauling cream. In our own creamery where cream collectors are paid from \$5.50 to \$4\$ per day we find that the cost of hauling cream during the season of 1998 (April to November inclusive) varied by months from 1.56 cents per lb. fat (June) to 3.3 in November and 3.64 cents in April on one route; from 1.39 cents in April on one route; from 1.39 cents to 3.67 on another route; and cents to 3.67 on another route; and from 1.31 cents to 1.85 cents on an-other. The average cost of hauling per lb. fat for the season was 2.1 cents, 1.9 and 1.5 cents respectively on the three routes.

on the three routes.

The total monthly delivery in pounds of fat varied from 817 (April) to 2,307 (June) lbs. on the first route, making a total of 12,000 lbs. fat in round numbers for the eight months; on the second route the total pounds fat delivered monthly ranged from 702 to 2,852 and totalled 11,600 for the 10,000 for the 10,00 for the season.

for the season.

The point I wish to emphasize is that the cost of hauling is very much increased with a small supply of cream. In our case in the months of April and November when the amount of cream delivered cost practically all that we received for manufacturing (4c a 1b, fat) in the months of June and July the cost per pound of June and July the cost per pound of at was about one and one-half cents for hauling. For the whole season the cost of hauling was practically 2c a lb. fat (1.937).

How to get the cream to the creamery more frequently and not increase



Remember that poor equipment, educational or mechanical, means just that much more for you to overcome in competition with others. Separator Competition acknowledges the superiority of the

DeLaval Discs and in practically every case in so far as possible, have appro-priated expired or discarded DeLaval patents in their mad scramble for recognition. Therefore protect yourself by using the reliable and original

DeLaval Cream Separator

Be Sure It's a DeLaval

THE DE LAVAL SEPARA

173-177 William St. MONTREAL WINNIPEG

VANCOUVER

the cost of hauling is a problem which this ought to receive very careful consideration by both farmers and creamerymen. We have wondered if electric railways and some form of automobile cream wagon where roads are fair might not help to solve the problem.

CHEESE VS. BUTTER AS PROFIT PRODUCERS

While the creamery patrons may have been dissatisfied to some extent and thought they ought to have received better prices; and while some creamerymen may have been anxious because of this dissatisfaction on the control of the patrons they may have and thought they ought to have re-ceived better prices; and while some creamerymen may have been anxious because of this dissatisfaction on the part of their patrons they may have were charged three cents a pound faf at.

consolation that patrons creameries during 1908 probably re-ceived greater returns than did those who patronized cheeseries, if the results at the O. A. College may be taken as a criterion.

By way of explanation we may say that milk was hauled and cheese made at a charge of 1½ cents a pound. Those who delivered their own milk were charged one cent a pound of cheese for making.



TIMOTHY

Test It for Yourself Entirely Free

Let us send sufficient Nitrate of Soda for you to try, asking Let us send sufficient Nitrate of Soda for you to try, askin only that you sus according to our directions, and let us kno the result. To the twenty-five farmers who get the let ur on settliners, their composition and how to use for differe crops. Handsomely bound, 3ry pages. Aprily at one of Nitrate of Soda by post card, as this off, Aprily at one of Nitrate of Soda by post card, as this off, Aprily at one of the composition and the post card, as this off the composition of the post of the composition of the composition of the composition of the present efficient has in a page in mentioned it which the present efficient has in page in mentioned it which the

WM. S. MYERS, Director, John Street and 71 Nassau, New York

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

Cheese Department Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest sub-jects for discussion. Address your letters to The Cheese Maker's Department.

To Change Method of Selling

Cheese

pose of bringing about a change in the present system of selling cheese. During the past year, efforts were made to replace the cheese boards in Ontario, east of Kingston with Farm-ers' Exchanges but the attempt proved unsuccessful. Some of the factories then commenced sending a salesman to Montreal with their cheese, where it was inspected, weighed and paid

to anontreal with their cheese, where it was inspected, weighed and paid for on the day of sale. Other factories made experimental shipments of their

made experimental shipments of their cheese direct to Great Britain. The agliation was conducted largely through the Ottawa Valley Journal.

At the meeting last week, the Secretary-Treasurer, R. B. Faith, reported that last year 129 factories had paid in \$350.75. The out-lay had been \$250.75. The out-lay had been \$250.75. The out-lay had been east of Kingston and in parts of Queenst of Kingston and in parts of Queen east of Kingston and in parts of Queen the Company of the Company

Faith stated that correspondence he had had with some 50 British produce firms showed them to be willing to deal direct with Canadian factory.

A paper was read by Mr. Wm. J.

OFFICERS ELECTED

The following officers were elected:

men.

P

tr m of ul ar th M w

of

pa

pu En

sat ed,

va. wi

wh

288

pla

hav

COR

Selkirk Stiff Stay Fences and Gates are just a little Heavier, Stronger, Stiffer, More Secure and Serviceable than any other by comparison. They are the Best and Most Economical to Use and Buy, and the Most Profitable to the Agent.

THE SELKIRK Lock, although cheaper than any other independent lock, is the only one that grips tight enough to justify the use of High Grade Wire. The best metal fence lock will cost 40% more and will not hold half as much. Fill out the blank below and mail it to us and we will send you proof of the above statements, a handsome catalogue and full

Selkirk Fence Company, Hamilton, Can.

I want to examine for myself the merits of Selkirk Stiff Stay Fencing and Gates. Send me a free sample piece of the fence with descriptive catalogue and Agent's terms.

P. O.

Province.

RTIGULTURIST

0

CANADIAN POULTRY REVIEW

Published the 1st of each month

THE BIG

An Entire Farm, Garden, Poultry and Home Library of 88 Papers for only \$1.70

FARM AND DAIRY

A paper for farmers and dalrymen. It is published every week in the year and is an all published every week in the year and is an all the separate of the second of the se \$1.00

net measure from farmers are two of its best features. Subscription price, One year THE CANADIAN POULTRY REVIEW is the Coultry Journals. It is published unnetted handles from the Coultry Journals. It is published unnetted his of 2 pages chose tail of they poultry low. Full reported because the country of the country of

One year.

THE CANADIAN HORTICULTURIST—is the only paper in Canada devoted to Fruit, Flower and Vogetable forwing. It is issued monthly, is protucely illustrated, and numbers among its contribution of the c

THE HOME JOURNAL—A Canadian illustrated paper full of practical, useful suggestions, stories, household bints, etc., clean, patriotic and equal in appearance to the best foreign magazines. One year

Total \$2.60 Our Special Combination Rate for all four papers, one year, only "\$1.70 Why not save money! Send us \$1.70 and get these Full Leading Magazines, one full year each, \$8 papers in all—less than 2c each and postage paid."

Tell Your Neighbors Address

FARM AND DAIRY PETERBORO, ONT.

I Published I 0 the Ist of 0 J Z

DEFINITION OF CREAMERY

The second citation is with reference to the legal definition of a creamery. "We read "Creamery" means a place where the milk or cream of not less than 50 cows is manufactured into butter." Now if we understand the meaning of creamers, the fundamental idea contained. ery, the fundamental idea contained in it is co-operation. Where two or in it is co-operation. where two or more persons join together for the livery.

"(2) We favor the complete aboli-

As we practically must have a certain As we practically must have a certain amount of milk during the year for educational and experimental purposes, when we lost in the spring, some cheese patrons and saw that we were likely to lose others owing to the relatively lower price received for cheese compared with butter we said to them—Hf you will continue to send milk to the cheese room for the entire season we will make up to you any

whole milk, in lieu of the skim-milk. The average price received per lb. fat by the cheese patrons was 26.6 cents a lb., while the butter patrons received an average of 26.53 cents—or practically the same as the cheese patrons were paid, while the latter lad in addition the skim-milk. What we had to make up to the cheese patrons were head. The first annual meeting of the Farmers' Produce Association was held in Ottawa, January 21st, with about 100 people in attendance, representing about 75 cheese factories. This assectation was formed a year algo, at a largely attended meeting of dairymen, held in Ottawa, for the purchaser of bringing about a change in the pose of bringing about a change in the pose of bringing about a change in the pose of bringing about a change in the

CONCLUSIONS

look even more promising we need among other things:
1. More Education.—An American

 More Education.—An American creameryman dealing recently with the question of education for the butter-maker, said: "The guardian genius of democracy is always the cultivated mind. It is the only dicta-tor that free men acknowledge and the security that freemen desire." Our farmers, cream-haulers, butter. Our farmers, cream-haulers, butter-makers, creamerymen—yea, we all

makers, creamerymen—yea, we all need more education.

2. We Need Better Dairy Legisla-tion.—While 'tis true that you cannot make a man honest, or a good farmer, or a capable cream hauler, or a first-class butter-maker by Act of Parlia-ment, yet a great deal can be done by our legislators to assist in these things.

As an example of what seems to us As an example of what seems to us lack of knowledge in dairy legislation we may cite a couple of clauses from recent dairy Acts: "All milk containing less than thirteen per cent. of total solids, of which three and three-quarters per cent, must be chemically described by the described below. A paper was read by Mr. Wm. J. Webster, of Lansdowne, giving the results of shipments of cheese to Great Britain that had been made by some of the factories in his section. A report of Mr. Webster remarks is given elsewhere in this issue. The following officers were elected: Pres., C. F. Rath. Lansdowne; vice-pres., W. A. Mullen, Inhaman; sec., treas, R. B. Faith, Ottawart, East Templeton; L. A. Landry, Crysler, and the executive were appointed to wait on Hon. S. Fisher, Minister of Agriculture, and press for the appointment of an official to inspect and weigh cheese at Montreal. as a sign of improvement along this line that the local member consulted with the Agricultural High School Principal regarding certain legisla-tion, which is likely to come up at the next session. Why need legisla-tors be ashamed to consult men who have given a life-time of study to cer-have given a life-time of study to certain questions?

RESOLUTIONS FASSEM
Moved by J. A. Van Allen, of Aultsville, seconded by W. A. Mullen, of
Inkerman, "(1) We the delegates representing cheese factories in annual
convention of the Farmers' Produce convention of the Farmers' Produce Association assembled. believe that in dustry cheese should be sold on its merits, weighed and paid for on demerits, weighed and paid for on de-livery to the purchaser. Therefore, be it resolved, that we unite our efforts in bringing into effect as speedily as possible the policy laid down at our organization meeting a year ago, which asks for inspection, weights and payment, or some guarantee ment, either at factory or point of de-

RESOLUTIONS PASSED

is a "creamery." The number of cows has little or nothing to do with it. (In the foregoing I speak as a citizen (In the foregoing I speak as a citizen of Ontario, not as a public officer.)

3. The last need we shall mention is: Pasteurization.—This we consider to be one of the greatest practical needs for a steady improvement in the quality of butter. It will not do everything but it will go a long way towards lessening the output of poor butter. season we will make up to you any difference there may be, between the price paid to our butter patrons and that which you receive, and in addi-tion we will pay you 15 cents a cwt. whole milk, in lieu of the skim-milk. Education, Legislation, Pasteuriza-tion—these three, but the greatest of these is Education.

had in addition the same line. Has we had to make up to the cheese patrons was practically the value of the skim-milk. This amounted to \$133.75 on about 103,000 lbs. whole milk. The amount of money per cheese patron which we had to pay as a bonus varied from \$7.80 to \$55.73. The latter patron delivered 40,650 lbs. milk, so in his case it was quite an item.

In order to make the creamery out-

total solids, of which three and three-quarters per cent, must be chemically dry butter-fat, shall be deemed below the standard required in creameries for butter manufacture." With all dwe respect to the framer of the Act we trust that we may be allowed to observe that the man who drafted this clause does not know the A B C of Butter-making. What have the "total solids" of milk other than the fat, to do with milk for butter-making? Would not milk containing 3 to 3½ per cent. fat make good butter? Why chemically dry butter-fat?" Would mot fat determined with the Babock making?" Tall an right for butter-making?" The property of the standard of the

Ist the V ADI Published AN 0 X

jo

FARM AND DAIRY PETERBORO, ONT.

Published Every Wednesday

D

tion of the credit system of selling

cheese.

"(3) We are in favor of having a stem of requiring inspection of neese before goods leave the hands of

(4) We favor the formation of asso ciations subordinate to this Farmers' Produce Association, and located at shipping points throughout our jurisdiction. These associations shall be shipping boths associations shall be dietion. These associations and a Board of Management and Sales.

"(5) All patrons of factories represented on Boards shall be members of the association.

the association.
"(6) The members shall me "(6) The members shall meet annually, discuss reports, elect officers, and transact the necessary business; and also elect a representative to the central association.

"(7) The Board shall be formed of the president and sceretary and one representative of each factory in the association.

representative of each factory in the association.

"(8) The representatives shall with similar representatives from other associations in the jurisdiction meet annually in a central association for the purpose of forming rules and measures to regulate the marketing of cheese according to the wishes of the farmers so organized.

cneese according to the wishes of the farmers so organized.

"(9) Believing it is in the interests of all dairymen that the work of the association shall be carried on, we would recomment that each and every cheese factory contribute a fee of \$2 to assist the association in defraying its expenses."

Shipping Cheese to Great Britain

Several factories in the Lansdowne, Ont. section of Eastern Ontario, shipped cheese direct to Great Britain last year in an effort to save the charges of the middlemen in Canada including the local byers and the Montreal exporters. The results of these shipments were reported last week, at a meeting of the Farmers' Produce Association, held in Ottawa, by Wm. J. Webster, of Tilley.

HAS CAUSED COMMENT

Mr. Webster's paper was as follows Mr. Webster's paper was as follows: Possibly no scheme connected with the sale of cheese has created more general interest, approving and con-trary, than that proposing direct ship-ments to Great Britain. Ti s-phase of the question has been commented upon by cheese men both in Canada

ments to Great Britain. Ti's phase of the question has been commented upon by cheese men, both in Canada and in England, and particularly by the Canadian trade commissioner at Manchester, Mr. P. B. MacNamara, who expresses most hearty approval of the plan and anticipates in connection with such a trade increased prices for good cheese furnished regularly in this way.

A Lansdowne branch of the Farmers' Produce Association, during the past season, has been evading Canadian buyers and been placing the output of its factories directly on the English market. While the results of this undertaking have been wished, still you say might have been wished, still you will be a might have been dependently on the product of the product of the factories directly on the supportations of the the future selling operations of the t ciation.

One feature of direct shipments which recommends it is the elimination of details (as they may be called) tion of details (as they may be called) associated with the sale of Canadian associated with the sale of Canadian cheese and adding to the expense of placing it, where it ul'imately go: supon the English market. The buyers have pointed out in connection with the agitation for factory inspection, weigh and pay at car doors, that costs of this sort would be a charge on the cheese and would be a charge on the cheese and would be acharge on the cheese and would be acharge on the cheese and we may reason by If this is so, and we may reason by assume that it is, and we can reduce the amount of that expense, thus increasing the price at the f-sctory, why it behoves us to do so and to see that our cheese are transferred from the curing room to the counter in Great Britain with the least possible accumulation of cost. Why is it necessary ulation of cost. Why is it necessary under the complicated system and meaning the complicated system and meaning the control of the cost of the control of the cost of the c Our present system, gives us the cheese board the board salesmen, the board buyers, the Montreal agent, and cartage, storage, inspection and dock



Mr. J. J. Parsons, Jarvis, Ont.

The newly elected President of the The newly elected President of the Dairymen's Association of Western Ontario was first appointed to the board of directors at the time the convention of the Association was held at Stratford four the board since, until housing the board of the president at the recent convention held at Brantford. Mr. Parsons has been connected with the dairy industry for many into the president of the pres

dues at Montreal. Cannot any or all of these be eliminated without any disadvantage to the producer?

SOME ADVANTAGES

One decided advantage to through One decided advantage to through shipment is that cheese placed aboard cars on Tuesday at Lansdowne go into cold storage aboard ship at Montreal on Wednesday or Thursday, thus our cheese and at the same time avoiding a menace to the quality of our cheese and at the same time avoiding a certain charge of three-cishths of a cert a neque on the cert arothing a certain charge of three-eighths of a cent a pound on the cost of our cheese, which, at the rate of our cheese, which, at the rate of three-eighths of a cent on the output of the eight counties, Leeds, Grenville, Dundas, Stormont, Glengarry, Prescott, Russell and Carleton, would control the control of the city of the control worth our while looking after. Still the middleman argues we must have him and without this outlay his ser-vices will be denied us.

Even though, as the adverse critics Even though, as the adverse critices of this idea contend, the services of the middlemen are essential to an in-telligent distribution of our cheese, as we were advised by buyers in connection with factory inspection, it does not follow that we should demand for distribution purposes the extravagant distributing purposes too extravagant a number of employees, agents and agencies

agencies.

The English firms are practically the only ones we are interested in in connection with our cheese trade. It is desirable to mention the name of this publication when writing to advertisers



AN OBJECTIONABLE FEATURE

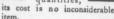
In our season's venture in cheese shipping, we depended entirely upon the reliability and business capacity of Willer & Riley, Ltd., for satisfac-tory returns for our cheese. This is of Willer & Riley, Ltd., for satisfac-tory returns for our cheese. This is an objectionable feature to the sys-tem as carried on by us. The cheese were shipped to Willer & Riley, Ltd., and left in their hands to be sold. They rendered account sales showing the price our cheese had brought from the prisal processed. the price our cheese had brought from the retailer and we received proceeds, less charges of transportation and commission. Willer & Riley's account sales kept fairly up with current mar-ket reports (as taken from the Man-chester Grocers' Review) until the chester Grocers' Review) until the middle of September, at which time our first August cheese came upon the market just following their unfortun market just following their unfortun-ate financial collapse. These cheese were sold for 60 shillings of one shil-ling less than at the sale of a week previous and that on a market report-ed one shilling higher, continuing, equally unprofitable until the balance of our cheese in their hands were dis-posed of. Had we been able to secure

We have refused to send our cheese to them, so they are obliged to send their agents to us or employ already established firms here act as agents for them. This is a question not of eliminating the middleman but of coperating with him in the marketing of our cheese, thus permitting him to dispense with superfluous accessories and reduce expense, to our ultimate advantage, we true. retailer.

(Concluded on page 23)



To Buttermakers-and all who buy salt in large quantities,



Windsor Salt

goes farther-and does better work. Its cost is really less

-and it makes the butter worth more. Ask your grocer.



STEEL WHEY TANKS



(HEAVY TANKS DO NOT HAVE THE ANGLE IRON)

From time immemorial Dairymen have had a problem ever before them in the immemorial Dairymen have had a problem ever before them in the wind in the problem ever before them in the problem of a satisfactory recept acle that would hold whey in a satisfactory manner. We have evercome this control of the state of the satisfactory manner. We have evercome this control of the state of the satisfactory manner. We have evercome this control of the satisfactory manner. We have every e

The Steel Trough & Machine Co., Limited TWEED, ONTARIO





FOR a woman to be wise and at the same time womanly, is to wield a tremendous influence which may be felt for good in the lives of generations to come.



The Domestic Adventures

By Joshua Daskam Bacon (Continued from last week

HE meant by this that he was sitting on the side ported walching Choe do up brandied peacetes. She had on a long the ported walching Choe do up brandied peacetes. She had on a long the peacetes she had not been the ported with a situation and Choe was sure that made her look like against the peacetes. She had on a long the peacetes she had not been the peacetes where scarled from tight, her cheeks were scarled from tight, her cheeks were scarled from tight, her cheeks were scarled from the peacetes white the peacetes were the peacetes white arms bare above that her hair was most becomingly untied; white arms bare above the peacetes were the peacetes were the peacetes were the peacetes were the peacetes white arms bare above the point white arms bare above the peacetes were scarled with dreaming the was so handsome and courtly his was not broke the peacetes white arms bare above the peacetes white arms bare above the peacetes white arms bare above the peacetes were were with him had been dealth of the peacetes white arms bare above the peacetes white arms bare at him in the dim hall be the peacetes white arms bare at him in the dim hall be peacetes white arms bare and courtly and the peacetes white arms bare at him in the dim hall be be defined to the peacetes white arms bare at him in the dim hall be the peacetes white arms bare at him in the clim the light, and he went But Sabina was not there; she had been detained in town unexpectedly, and would just be able to get out to dinner, she telephoned. It was the first time she had not been there to chaperon "her elderly charmer." and I was a little worried at the responsibility: he is so way critical bility: he is so very critical

only; he is so very critical.

That is why he was on the porch.
I simply could not feel able to entertain him alone, and Chioe had to superintend the peaches. I had never attempted any, and she had seen her Kentucky aunt do them so many times that she was sure she could. Mary, of course, was useless in this connection: she had not reached the subject of preserving in her cooking course, and she could do only what she had been taught.

"Preserving. I believe, is very difficult, as well as expensive," she told me. "I will do whatever you tell me, of course, but I could not think of undertaking any responsibility

"It may require a little experience," I said, "but it is much cheaper to do them at home than to buy them, certainly."

"It would be cheaper still to do without them," she replied doggedly. This I could no more deny than I could deny her statements about nitcould deny her statements about nit-rogenous elements of food and carbo-hydrates (or hydrocarbates—I have never studied Domestic Science). But as I told Mary, the fact that she had subsisted satisfactorily to her-self for two years on two threadedgrain biscuits for breakfast did not weigh with me for a moment against Sabina's deep-seated preference for boiled eggs, Graham toast and bacon;

window behind me made me start from my seat.

from my seat.

"Can I speak to—to somebody"

"Can I speak to—to somebody"

said a hollow solemn voice.

Chloe was at the piano singing
some foolish darky music-hall song,
and Mr. Van Ness was leaning back,
blowing rings from his cigar and
watching her. I was planning to get Sabina off the piazza on some pretext or other, and then I knew—I absolu-tely knew—the climax would come: I felt it in the air.

tely snew—the climax would come: I felt it in the air.

But at the sound of this voice I got up and went into the living room.

Mary's tutor stood there. He was a lank young man, with pale, high cheek bones and a most self-conscious air and he wore goggles that extinguished Mary's.

"I should like to speak to you in private, if you please, he said. "I will not detain you long."

Perfectly dumb with surprise, and judging from his intentional glance at Chloe's innocent back that she was the bar to his privacy, I led the way into the hall, the front door of course, was wide open.

wide open.

"You are aware, I have no doubt,"
he announced, "that my pupil here
has an extremely nervous organization. You could not fail to observe

\$1.00 each, we will renew your own subscription free for one year.

ง พิธรรรรรรรรรรรรรรรรรรรรรรรรรรรรร inevitably assist at our most idiotic so nobly that you would not wish, certain that he intended speaking that night; all during dinner his eyes travelled from me to Sabina and from her back to me again, and I under "it is not music, per se, that Miss stood why, he was survivaled." her back to me again, and I under-stood why; he was wondering to which of us he ought to address himself on the subject. My nerves have grown so tense during his period of uncertain cross-purposes that I seem to feel too closely what every one is thinking and hoping.

But after what occurred in the hall

But after what occurred in the hall no one could have been serious. Not that anything was wrong with the dinner, though Sabina thought it was rather audacious in me to allow him to stay. Mary had been taught to broil a steak very neely, and she zarnished everything with mathematical perfection. We can always get good clams at short notice, and Marnie's aunt sent me a delicious cantaloun. It was after Mary had served the coffee on the plazza that it happened.

it happened.

It happened.

You see, it was the night for her tutor. Tuesdays and Pridays he came —to save her eyer—and we never invited any one for those nights, and I used to hurry did subsecting the could, without Sahimst suspecting, the could, without Sahimst suspecting, of course they used the Ging room in the evening, at Miss Emiss room in the evening, at Miss Emiss room in the evening on the piazza, I didn't think it would matter, and he always left whalf past-nine.

I cannot believe that Marx was resulted.

senseless, and he went on:
"It is not music, per se, that Miss
Bostvick finds so confusing to her
efforts at concentration," he said, "but
the character of the—the selections
this evening. I don't know whether
you are acquainted with classical
music at all, but there is a difference."
Again I murmured vaguely.
Again I murmured vaguely.
"I have taken the responsibility of

-a great discreme.

Again I murmured vaguely.

"I have taken the responsibility of
this step entirely upon myself," he
concluded, "because I admire Miss
Bostwick's character deeply—it is a
privilege to live with a mind like
hers—and I felt sure that any rightthinking person would appreciat
thinking person would apprecia

er yes, goodevening?"

He backed out of the hall, followed
by what I knew must be, though I
had never heard it before, the deep,
had never heard it before, the deep,
irrepressible laughter of Mr. Van
Ness. Chloe was such a confusion of
mirth and resentment that nobody,
even if he had been serious himself,
could have made love to her, and
Sabina's mixture of emotions made
her alternately satiric and speechless.
I don't know whether I should have
been able to indicate to Mary that the
strain of living in her rarefieed intellectual atmosphere was too much
tellectual atmosphere was too much
form. Sabina would have retreated
for the control of the control of

and go out with him to India, to share his labors as a missionary there. (Continued next week)

Mesessssssssssssssssssssss The Upward Look Recessossessessessesses

And whatsoever we ask we receive of Him, because we keep His commandments, and do those things that are pleasing in His sight.—I John 3.,

Just as there is no limit to God's power so there is no limit to the blessings that we may obtain through prayer. God has promised, again and again, to answer our petitions. He has told us, "If ye shall ask anything in My name I will do it." (John II, 14) and, also, "And all things whatsever ye shall ask in prayer, be whatsever ye shall ask in prayer, between the control of the

thing that we ask for.

There are some people who say that There are some people who say that they have no faith in the power of prayer. They tell us that they have prayed for things and that their prayers have not been answered. Sometimes, people have given up praying because they have not received what they desired. These people do not believe the word of God.

While God has promised to answer ur prayers He has also told us that there are times when He cannot answer them. There are occasions when swe, ourselves, prevent Him from

there are them. There are occasions swer them. There are occasions we, ourselves, prevent Him from we, ourselves, prevent Him from doing so. In James 4:3 we read, "Ye doing so. In James 4:3 we read, "Ye ask

we, ourselves, prevent Him from defing so. In James 4:3 we read, "Ye ask and receive not because ye ask ask and receive not because ye ask and seed of the seed of ened, that it cannot save; neither His ened, that it cannot hear. But enemely that it cannot hear. But enemely the same that the same that we have been you have hear you sine have hid His face from your must have hid His face where you have must ask ourselves if there is anything that is coming between us and God. If we are in the habit of doing anything that we know is not pleasing in His sight, or if we are neglecting to do things that we should do, we need not be surprised if our prayers are not answered.

an hij bli fai sh

the

wh

ing An

ma

str mu fail div

cha

not be surprised if our prayers are not answered. We know of a woman who is praying, and praying carnestly, that her husband, who is a sinner, may be saved. And yet this woman seldom saved. And yet this woman seldom cost to church, because her husband goes to church, because her husband cost of the saved. And the saved has the saved has been come a Christian when he sees that so, herself, he sees that come a Christian when he sees that she, herself, is not a consistent Christ-ian. We must live consistent lives ourselves before we can expect that our lives or our prayers will have much effect with God or with others. If we so live that others can see that. If we so live that others can see that in everything we do and say we are striving to please our Heavenly Father in all things, then others seening our good works may be led to storily our Father who is in Heaven, storily our Father who is in Heaven, the strip of the storily our Father who is in Heaven, which we receive that for which upon which we receive that the condition of the same who can be suffered to the same who confesses his sins and asks for forgiveness. There is 107 in Heaven over one such sinner who confesses his sins and asks for forgiveness. There is 107 in Heaven over one such sinner that repented.

If then, we are not receiving answer to our petitions we should search our to our petitions we should search our to our petitions we should search our five will ask him in the right way.—

I. H. N.

boiled eggs. Graham toast and bacon; evening on the piazza, I didn't think it would matter, and he always left bates) must look out for themselves. Another reason for my staying on the porch was that Chie positively nonsible for it, though I know that prefused to work with Mary slone, which I recreted as I wanted to leave Mr. Van Ness with her, and I of nine a loud rap on the French of nine a loud rap on the French of the description of the descr

A Girl's Duties in the Home

Mrs. Nixon Craig. (Concluded from last week)

Books are a fine help to intellectual culture, and a few moments intercourse will usually suffice to distinguish an habitual reader of books from a person who never reads at all But the finest instrument of mental culture is the pen. clinches the nail and f oste osters originality. It is a girl's duty to answer letters; and she is the better for every good letter she writes.

It is amusing how much good stuff one can write once the pen gets going on a subject which the writer at first sight thought impossible to say anything. Most people never discover how much is in their heads.

It is not the duty of a girl in the home or out of it to ape mannishness or aspire to displace in life the stronger sex. Her true strength lies in her weakness, her chief charms in that, and her plain duty is not to aim at dethroning him, but at fitting herself to be his helpmate. This is ambition enough and a high ambition it is. The hearthstone is the very cornerstone of society and the hearthstone is woman's throne. Most of the great men of history, the men whose thoughts or deeds live on forever, had great mothers, so true is it that "the hand that rocks the cradle is the hand that moves the world." Let woman once abdicate this, her true place, and the power of that world-moving hand is gone. No! The aim of a girl should be

to become simply a good wife and mother. It is a high calling, a holy

calling. The bounden duty of every girl, while still in the old home is to fit and prepare herself betimes for so high a dignity, so solemn and so blessed a service. Were this duty blessed a service. Were this duty faithfully performed by all girls we should see fewer good men sent to the bad from homes rendered mis-

erable by nagging, wasteful, abomin-

But how is a girl to acquire all charms, graces and qualifications to which I have here referred. Well, she must begin at the beginning, on her knees, the best time and place being as a child at he mother's knee. Amid all her duties the supreme one is to get God's Spirit into her heart, making it more and more a pure fountain of goodness. This is the fountain of goodness. This is the place to begin. Here is the power that prevails. This left out, all struggles towards perfection, all efforts to reach the ideal character, must prove a partial, if not a total, railure. To human endeavor and divine help combined, the model p combined, the model the saintly life, are withcharacter, in the reach of all.

In a word, it is the duty of the 'Girl in the Home' to be the very

The

Best Thing

In The Home

except the baby. "Baby's Own" is the nicest, purest

and safest soap you can use.

Best for Baby-Best for You

Albert Soaps Ltd., Mfrs.

light of that home, never frowning, light or that nome, never trowning, fretting, nurmuring, or impatient, using no cross words, giving no curt answers, but always cheery, thoughtful and kind. Above all else, she will speak no slander, nor listen to it. She will make it her duty to defend the absent shut her ears to take the absent, shut her ears to tales of wronw-doing till proven true, say a good word for even the worst; or keep silent when no such word would

fit.

What a treasure in the home is such a girl, as this! With her in it the humblest cottage is a royal palace. Many a lordly mansion is yet a bleak and dismal place, not for lack of spacious parlors, and costly turnishings and dazzling splendors, the control of the control but because there is no daughter of the house to brighten it with her smiles, and warm it with the radiations of a

Read at meeting of North Gower Women's

... Personal Appearances

Mrs. J. A. Wylie, Treasurer, Omemee Institute

This seems to be a very large subject to write on in this, the 20th, century, when one sees so much and such a variety of clothing. It is really hard at times to choose and dress, as our grandmothers would say, to cut our garment according to our cloth, and to dress well according to our But personal appearance does not only mean our clothes. How bad-ly we would look if we had a beautiful dress or suit, nice hat to match, nicely fitting gloves, and dirty, dusty shoes, and our hair untidy. And how shoes, and our hair untidy. And hour often we see people neglecting their their hands, and nails. In my hair, their hands, and nails. In my mind, these details go a long way and add a great deal to one's personal appearance.

Just here, perhaps, some of us would like to know that a little care say, five minutes each day spent on one' hands and nails, would amply repay one in a few treatments. Nails

well kept are never in the way. How many people we meet glance first at our head, and then at our feet and then at our hands. I think a person's character can be read at a glance by the appearance of the hands and nails. Nails should never

be cut with scissors or a knife, but one-half yards is a very good measure basin of warm soapy water until the cuticle or skin surrounding the nail is soft; then take an orange stick (these can be purchased at about five cents each and with proper care will last a life time). Slip the end of this soft stick under the cuticle, and loosen it all around. When a woman once uses an orange wood stick she would not be without it. Never use a steel instrument to clean the nails as it has a tendency to bruise and cause small white spots. The hair should be brushed every day, and washed regularly once a month. Of course, a person with very oily hair may wash it oftener, but the average hair should be washed once a month. If the ends are trimmed once every three or four months the hair ws more evenly.

grows more evenly.

Personal appearance goes a long
way towards gaining esteem and
confidence. How often a person gets
a position or situation through no
other recommendation than their personal appearance. sonal appearance.

REGARDING DRESSING

If you are having clothes made, and the dressmaker was of a sloven ly or dowdy appearance, would she be the woman who would go to if it were possible to have a neat, stylish well-dressed girl to do your sewing

Again, how often we see people art out on an excursion for a day with light fancy dresses that are real-ly hardly fit for anything but house wear, and very elaborate hats, with wear, and very elaborate hats, with ostrich plumes, etc. Supposing a shower or thunderstorm comes up, and they are caught in the rain, how much better a shirt waist suit and a plain, ready-to-wear hat would look

. . . Household Linen

Mrs. M. A. Nichols, Waterloo Co., Ont.

In selecting tablecloths, it is more satisfactory to get the seventy-two inch width, which gives a generous fall of sixteen inches or so at the sides; which dresses a table better sides; which dresses a table better than the narrower widths. Two and

be cut with scissors or a knife, but one-half yards is a very good measure should be filed with a small manicure for general use, a very convenient file for that purpose. The nail should size for a small company requiring be the same shape at the filed end as at the root. After filing nail into a state the root. After filing nail into proper shape, put the fingers into a specific proper shape, put the fingers into a specific proper shape. respond with the sides.

In hemming tablecloths, a double-

In hemming tableclotts, a double-hemstitch above an inchand-a-half wide hem makes very fine finish. The ends must be cut; the distribution of the make the hem true. With the make to correspond, and finished in the correspond, and finished in the same way, this makes a very fine table set; if the linen is fine and heavy, with a pretty pattern. If the hemstitch is thought to be too elaborate, the so-called French hem at the ends does very nicely: turning a half-ends does very nicely: t ends does very nicely; turning a half-inch hem neatly and folding back,

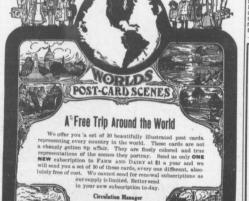
ends does very nieely; turning a haliinch hem neatly and folding back,
sew a fine over and over stitch.

The care of table linen is of great
importance, if one would have the
table arrayed at its best. There must
be a pure white cloth without blemish
of with a pure cloth and table
cloths for this effect plants and table
cloths for this effect plants and table
cloths for this effect plants and the pure
stains, and then let them soak in a
good suds made with white laundry
soap for an bur; then lightly rub out
and just scald in clear soft water;
rinse in a light bluing water, and
during the whole process wring by
hand, instead of by wringer, to avoid
hand hand and hand a

and hang straight on the line to dry.
In ironing, the linen must be everyly and very well depended. Fold the tablecloth from the side just once, and press dry from the side just once, and press dry from the side of the sid for linen. To avoid the least folds, some get boards, such as are used for dress goods, and wind their long tablecloths smoothly over them, givi giving SHEETS DOING DOUBLE DUTY

My everyday sheets are made to last a long time. They are made from unbleached cotton because of its durability, the ease with which it is laundered—after the first few wash-ings—and because it never discolors with age. Two breadths of the mater-

FUN FOR THE WINTER 150 Songs with music, ise; 29 Humorous Dialogues, iSc.; 10 Comie Recitations, 15c.; 10 Thicks in Parior Magic, iSe.; 16c.; 10 Thicks in Parior Magic, iSe.; 16c.; 16c.;



FARM AND DAIRY PETERBOROUGH - . . ONTARIO

Feeds the Hair

Have you ever thought why your hair is falling out? It is because you are starving your hair. If this starvation continues; your hair will continue to fall.

HISCOTT Hair Tonic

is assuredly the ideal remedy for poor hair and sick scalps. You will realize this if you use it. \$1.00 express raid

realize this if you use it. \$1.00 ex-press paid.

Hair Rejuvemator restores gray and faded hair to former color in ten days.

Not greasy or siteky, contains nothing than hair gray a water. For hair less than hair gray and the state of the state of the Superfluous Hair, Moles, etc., per-manently destroyed by our method of Electrolysis. Satisfaction assured. Get Booklet "K.

HISCOTT DERMATOLOGICAL INSTITUTE 63 COLLEGE STREET, TORONTO, ONT

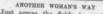
ial are basted together, just lapping the selvage edges in a flat seam, and selvage of the selvage edges in a flat seam, and selvage in the selvage in the selvage in the seam state. The seam state is the selvage in the selvage in the seam is women, who the selvage in the selvage in the seam is ripped and the other selvage in the seam is ripped and the center the seam is ripped and the cuter edges are placed together, giving it a new lease of life. This is much less work than making new sheets, not to mention the added cost, and I find by experience that these sheets wear much longer than those made from the double width bleached abeeting.—Alice M. Ashton, York Co., Ont.

. . . Cooking for Hired Men By Hilda Richmon

Last summer a lady was getting din-ner in a hot kitchen for harvesters, with not a bit of help, yet she seemed

to take the hardest way for everything. Three young chickens were trying in a large, old-fashloned from heater such as our grand had to be defined for irons, and had to be watched used for irons, and had to be watched used to be defined and in the oven were lemon pies covered with frosting that needed constant attention. The poor woman was hurried and warm and worried, but with a little planning a great deal of the trouble might have been avoided. At the last minute as hurriedly

At the last minute she hurriedly at the last minute sne nurriedly made gravy, mashed potatoes, turned the pies, gave the early peas a final stir, took the butter from the pail of cold water and dished up the dinner. cold water and dished up the dinner. Everything was good, but scarcely sat-isfying to hungry men. Lemon pie is a good dessert for hot days, but when it is the final course of a dinner in which the meat is very young chicken it is not exactly "filling."



Just across the fields in another farm house another country lady was farm house another country lady was getting dinner for her hired men at the same time. She he swally sold her young chickens to lead to be successful to be the swall of the country of the swall is someone was going to be the country of the swall is someone was going to be the swall is swall of the swall is swall of the swall was the swall of the swall was the swall of the swall was the swall of the swall

were plump fat hens. Everybody knows it is a dozen times easier to pick and dress a hen than to struggle with the pin feathers and tender skin of a two-pound young chicken.

On this occasion she had ham potential than the pie made after a simple recipe. The end of ham was cleaned and boiled till tender—the broth being carefully skimmed to free it from fat. On the back porch she peeled enough potatoes for dinner and also made her simple for dinner and also ma for dinner and also made her simple dumplings. The potatoes were almost done when the dumplings went into the large kettle to cook in twenty min-utes and come out flaky and good. Early in the morning she had baked apple pies and cooked a lot of string beans in salted water. The beans apple pies and cooked a lot of string beans in salted water. The beans were re-heated and dressed with a sauce made of a little milk, four, butter and seasoning blended together. Enough ham was cooked to furnish thin cold slices for supper and in the evening she served cold ham, apple pie, warm gingerbread and fried potatoes, so that both meals were easy. The price of the chickens more than paid for all the meat for two meals and the ham was much easier prepared, besides being more satisfying to the men. to the men.

BE P'EPARED AHEAD

BE P.EPARED AHEAD

It is well to have a list of things easily prepared if one cannot keep them in panel. Baked poratoes or potatoes buratim their Jackets when they are new anawhite should be used instead of meahout the prepared early in the day ready to be repeated in a few minutes and used with some carly in the day ready so be prepared early in the day ready so be prepared on the sound of the sound of the control of the

come substitute for the pies the hired

come substitute for the pies the hired men meet everywhere else.

It is also well to buy store cookies occasionally when work is pressing. They are not as good as the homemade by any means, but they answer the purpose at times when the mistress of the house has her hands full. A large box may be bought at considerably less than the per dozen and in a cool place they are all good for amon frosted cakes are all good for amon frosted cakes are all good for bus they are they are they goods for home products indefinitely, yet they save much time and work in busy seasons.

EGGS AS A SUBSTITUTE

EGGS AS A SUBSTITUTE
Eggs are usually easy to obtain and
they may then be freely used to help
out on busy days. By buttering a
dripping pan and breaking into it the
required number of eggs, salting and
placing in a hot oven, it is easy to
cook them just right without the carefull watching required by fried or
poached eggs. Omelets are easy to
poached eggs. Omelets are easy to
prepare and so are scrambled eggs. poached eggs. Omelets are easy to prepare and a served eggs. Hard-boiled eggs sliced and served with lettuce or beets are much relished. Notified to the end of the e

For Winter Underwear

m ta an ed rin Br

If your winter Underwear

If your winter underclothes have shrunk until they are too small, open the seams and insert a piece from an the seams and insert a piece from an the seam under the seam to the seam under the same to the same to the seam underwear, especially, makes excellent floor-cloths, while parts of them can be saved for rubbing windows, furniture or the stove. Every scrap of flannel should be carefully saved since it is excellent for use in sickness, and for many other purposes, less, and for many other purposes.

Jessie Burns, Frontenac Co., Ont. . . .

Renew Your Subscription Now.



NATIONAL TRADING CO., Postal

THE Edison Phonograph differs from all other sound-reproducing instruments because it was invented and perfected by Thomas A. Edison, and because it is constructed on a principle which is more nearly perfect than that of any other instrument made for the purpose.

The first Phonograph ever made was made by Mr. Edison, and from that invention was perfected the Edison Phono graph which today is considered the most perfect instrument for reproducing music, voice and other sounds

For you the Edison Phonograph means constant and varied entertainment of the kind for which you would pay theatre and concert prices to enjoy otherwise, but which, with the Edison Phonograph, you can enjoy in your own home. No method of spending an evening can be pleasanter,

whether you use it for the enjoyment of yourself and family, whether you invite friends to hear it, or whether you use it for informal entertaining, either for a program or dance. It is always there, always ready to be turned on; it is easily operated, and the cost is slight.

Edison Amberol Records

Mr. Edison did not consider his Phonograph good enough with Records that played only two minutes, so he experimented until he produced a Record which will you more than four minutes. It is no larger than the other Record, by means of an attachment which you'd on the same Phonograph by means of an attachment which you have the enjoyment of the Phonograph. Music formerly unavailable for the two-minute Record, on account of its length, can now be heard in full and to better advantable for the two-minute Record, on account of its length, can now be heard in full and to better advantage, and expecially ask to hear the new Edison Amberol Records.

FREE. Ask your dealer or write to us for illustrated talogue of Edison Phonographs, also catalogue containing mplete lists of Edison Records, old and new We. Desire Good Live Dealers to sell Edison. Phonographs in every town where we are not now well represented ealers having established stores should write at once to National Phonograph Company, 111 Lakeside Ave., Orange, N.J., U.S.A



DINNER SET FREE



FREE FOR A FEW HOURS WORK Secure a CLUB of only NINE NEW SUBSCRIPTIONS AT \$1.00 EACH, and you will be sent FREE OF COST, an elegant English Semi-Porcelain Dinner Set of 95 pieces.

This set consists of the following pieces: 12 tea plates, 12 dinner plates, 13 one plates, 12 fruit dishes, 12 butter pats, 12 cups, 12 saucers, 1 platter (16 finch), gravy boat, 1 platker (16 tooh), gravy boat, 1 platker (16 tooh)

FARM AND DAIRY, PETERBORO, ONT.

Send in your favorite recipes, for publication in this column. Inquiries pertaining to an possible after receipt of same. Un own the send received a same of the send receipt of same. Our own the send free receipt of same. Our own the send free tor two new yearly subscriptions at \$1.00 each. Address, House hold Keiter, this paper ****************

MACARONI SOUP

Take 1 cup stock, 1/2 stick macaroni, I saltspoon salt, speck of pepper. Cook the macaroni in salted boiling Cook the macaroni in saided pointing water about 30 minutes or until tender. Drain and cut macaroni into thin slices or rings. Put them into the soup tureen with the salt and pepper and pour over them the boiling stock.

Take I cup rice, I qt white stock, I qt milk or cream, I tablespoon butter, small onion, I stalk celery, salt and pepper to taste. Wash the salt and pepper to taste. Wash the rice carefully, add it to the cold stock with the onion and celery. Simmer slowly 2 hours. Press it through a slowly 2 hours. Press it through a sieve, return to the soup kettle, add the butter, cream or milk, salt and pepper and stir constantly until it just comes to a boil, when it is ready to serve.

SQUASH SOUP

SQUASII SOUP

Take 3 cups cooked squash, 1 qt
milk, 1 slice onion, 2 tablespoons
butter, 3 tablespoons flour, 1 teaspoon
salt, few grains pepper, 1-4 teaspoon
salt, few grains pepper, 1-4 teaspoon
salt, few grains pepper, 1-8 teaspoon
salt, sew grains pepper, 1-8 teaspoon
site of the sew grains pepper,

WHITE SAUCE

Put 2 tablesp butter in a granite saucepan over the fire ,and stir until melted and bubbling. Then add 2 tablesp flour mixed with a little salt and pepper and stir until well blend-ad. Next pour in granulty, while stirand pepper and sur until well believed. Next, pour in gradually, while stirring constantly, I cup scalded milk. Bring to the boiling point and stir until smooth and thick. This is nice with baked or boiled salmon, or such Shad boiled vegetables as cabbage, cauli-flower, carrots, string beans, onions,

BROWN GRAVIES

Brown gravies are made after frying or roasting any kind of fresh meat, by removing the meat from the pan and adding to the fat and sediment in the pan about I tablesp flour. Lima bean Michael Marche well. String hear Mix all thoroughly, and when well-browned, add hot water or hot milk until the gravy is of the proper con-sistency. Season with salt and pepper.

THE COOK'S CODNED onions, chopped fine. Excellent to serve with fish or meat.

...

FOR BAKING

Time in o

MEATS

п	Martine 11	1 ove
	Mutton, leg, per pound 10 to 15	mir
	Deel ribs, per pound 8 to 15	1.6
	Round of beef, per	
	pound,12 to 15	
	Lamb	
	Lamb, well done, per	
	pound,	**
1	Pork, well done, per	
1	pound 90	4.1
1	Veal, well done, per	
1	nound done, per	
1	pound,	
1	Mutton, shoulder, stuff-	
1	ed, per pound,	11
1	Venison, rare, per	
ı	Venison, rare, per pound,	
1	Goose, per pound18	
	Chicken pound18	
	Chicken, per pound15	
	Turkey	hour
	Birds, small (hot oven) 15 to 20	min
	Ducks, wild (very hot	
ı	oven)15	
ı	Ducks, tame45	
ŀ	Partridge35 to 40	
ŀ	D 10 to 40	
ŀ	Bread 1	hou
ľ	Custard (very slow oven) 1	4.4
ı	Biscuits 20	min
ı	Cakes20 to 45	
ı		

FOR BROILING

	MAIN LO		
Mutton	chops 8 to 10	m	in.
Steak,	1% inches thick10 to 15		•
Steak,	1 inch thick 8 to 10	6	
Spring	chicken20	*	
Squab	10 to 15	Á	4
	FOR BAKING		

FISH

Time in oven

Trout														٠				•	15	to	20	ц	
Bluefi	-1		* 1								*							*	10	to	20	1	
Small	4	l L	1.					*	٠		٠					٠	*		10	to	25		
Sman	1	18	n																		10		
100				1	R	C)]	R	l		E	31	0	Œ	1	į,	Ι	N	G				
						4	r	22	'n	• •		-			'n		*						

.15 to 20 min

	Spinach	0		
	Lima beans30 to 4	0	* 1	
	String beans 20 to 3	0	6.6	
	Potatoes20 to 3	0	11	
	Asparagus20 to 2	5	4.5	
	Brussels sprouts10 to 1	5	6.6	
1	Green corn	5	4.6	
1	Onions 30 to 4	n		
l	Parsnips30 to 4	0	* *	
	Rice	0		

***	serve with fish or meat. Time for Cooking	Cauliflower 20 min Cabbage 20 ** Macaroni 20 **
t		Mutton per pound
	Being a young housekeeper I am at a loss to know oftentimes how long I shall	Ham, per pound 90 "
1		Turkey per pound 15 11
1	ont.	Corned beef per pound 30 "
١		
	to you and some others in a similar position:	Tripe, per pound 3 to 5 hours
	FOR BAKING	Halibut, per pound15 min.

FISH	
Halibut, per pound15	mi
Bass, per pound	6.6
Codfish, per pound.	11
Haddock, per pound 6	1.5
Salmon, per pound 10 to 15	4.4
Small fish, per pound 6	

. . . System in Dish Washing

(Country Girl) My method of washing dishes is a splendid one, as the hands do not get in poor condition and the work is quickly and easily done. He work is a special was a My method of washing dishes is a

broom.

By doing the pots and pans first it leaves the hands in better condition, and a clean sink for the final dishwashing. I scrape clean all the greasy dishes and put them to soak in a pan of hot, soapy water. I wash these first and then change the water for first and then change the water for first and then change the water for clean to wash the cleaner dishes, such as cups, saucers, and so forth. I use a large tray in clearing off the dining-room table. Use system in placing dishes on the tray placing silver on one end by itself to avoid accidents. By this method the table is cleared off sooner, saving unnecessary steps. I scald the mops. Last, I wash my hands in clean water with castile soap. A handy thing to have in the kitchen is a packet of toilet paper, for wiping off greasy pans and so forth, hung near the sink.

Raising Bread in Cold Weather

I make my sponge in a 2-qt. pan over night and set it on a table. Over this I turn a large pan, on the pan J sistency. Season with sait and pepper.

BOILED ONION SAUCE

BOIL | Description | Boiled | Boi

*************** The Sewing Room

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

4 Lessassessessessessesses TUCKED AND PLAIN BLOUSES



PLAIN BLOUSES
The simple blouse
that is without fullmess and which is
made of fine material
tucked, is a pronounced tavortic.
etc. one adapted to
plain material to be
tucked as indicated,
the other designed
for the ready tucked
material, all over
of a similar sort.
Both models include
the new long close
fitting sleeves.
Material required

fitting sleeves.

Material required
for the tucked blouse 5 yds of material
II or 24, 5 yds 32 or 25, yds 44 in wide;
the plain blouse, 3 yds 18, 25, yds 22 or 15, yds 44 in wide.
The pattern is cut for a 32, 34, 36, 38,
d and 42 in bust, and will be mailed on
receipt of 10 cents.

MISSES: SMID:

MISSES' SHIRT WAIST 6215



The plain shirt waist with tucks over shirt waist with tucks over the shoulders is an extremely becoming one. This one in-cludes tucks that are arranged most be-comingly and con-ceal the arm hole

Material required for the 16 year size is 3½ yds 21 or 24, 2½ yds 32, or 1½ yds 44 in wide.

The pattern is cut for girls of 14 and 16 yrs, and will be mail-ed to any address on receipt of 10 cents.

COAT 6212



COAT 512 Such a simple lit-tle coat as this is very easy to nake. The cape is arrang-d over it, and the neck is finished with a rolled over collar. Material required for medium size (2 yrs) is 3% yds 21 or 24, 3 yds 27, 2 yds 44 or 1% yds 52 in wide with 5% yds of fur banding.

banding.

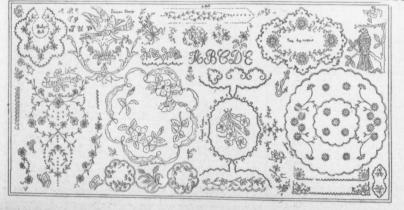
The pattern is cut for children of 6 mos,
1, 2 and 4 yrs, and
will be mailed on receipt of ten cents.

... Art Embroidery

Art Embroidery

No. 571. Special Perforated
Stamping Outfit. This aplendid outfit consists of about
fifty up-to-date and handsome full-size designs, including a Shiri Waist, Corset
Cover. Lingerie Hat, two
Cover. Lingerie Hat, two
Line and Lingerie Hat,
Line and Lingerie Lingerie
Line and Line and Lingerie
Line and Line and Lingerie
Line and Line and Line and Line
Line and Line and Line and Line and Line
Line and Line and Line and Line and Line
Line and Line and Line and Line and Line
Line and Line and Line and Line and Line
Line and Line an

These Perforated Patterns can be used an unlimited number of times.



The Canadian Bank of Commerce

(Continued from page 18)

actually benefited, and in no small measure, since the deposits gathered abroad supply a large part of their cash reserves. Had the banks at the date mentioned had no deposits and no loans outside of Canada, only \$10, 000,000 would have been added to their resources at home, and this would not have been lent for commercial purposes. On the contrary, in order to bring the total reserves up to the normal level, not only would it have been necessary to add this sum to the reserves carried here, but also to withdraw a further large sum from mercantile loans.

During the panic in the United States some of our newspapers pub-lished sensational and misleading articles to the enect that the funds lent by Canadian banks in New York were tied up and could not be got back to Canada. Notwithstanding severity of the panic, however, there was not a day during which moneys lent to New York brokers on call could not have been got in, and while it is true that, if it had been desired to ship money to Canada direct from New York, a premium of 3 to 5 per cent. would have fallen to be paid, on the other hand, New York funds could at any time have been exchanged for drafts on London, and the gold brought from there—indeed, this pro-cedure was followed to a considerable extent by the New York agencies of some Canadian banks. No more con-vincing evidence could be had of the availability of call loans in New York than is afforded by the experience of

On the general subject of the moneys lent in the United States, it properly be argued that reserves are for use in a time of emergency, but on this score it can be shown that the course of the Canadian banks last autumn was not at all open to critic-In the month of September, the total loans of Canadian banks outside Canada amounted to \$88,953,000, while at the end of November, when the stringency was most severe, they had been reduced to \$64,--from which it will be that the banks had drawn upon their outside reserves to the large amount of \$24,000,000 to meet the necessities of the mercantile community in

The President then moved the adop tion of the report and said in part

President's Address

It is hardly necessary to say that the conditions of business are very different from those of a year ago. We were then required to meet the we were then required to meet the serious lessening of our purchasing power because of poor crops in Can-ada, and our share of the result of the culmination of a world-wide expansion culmination of a world-wide expansion in general expenditure, and particu-larly in the fixing of capital in public and private improvements. We have and private improvements. We he now had a year in which the pace expenditure throughout the world has been sufficiently checked to ease the money markets, and in Canada we have gathered an excellent harvest. Better class securities almost every-where have recovered in price to such an extent as almost to wipe out the ous a year ago, and which were of course, real to those who were forced to sell. The lessening of and disposition to purchase goods has naturally lessened the profits of many nanufacturers and merchants; but all this was inevitable, and I think those who consider sufficiently must conclude, as a year ago we suggested would be the case that we have suf-fered far less than most other coun-tries. Whether we have suffered

While the results of the year's farming operations have been a fair ever-age in Ontario, they have been below the average in Quebec. Spring condi-tions were favorable in most parts of Ontario, but the season was late in Quebec and in Eastern Ontario. In both provinces the unusually dr period during the summer affected th yield in the case of many crops, the farmer suffered like others from the decline in prices. Still the year was one of prosperity, although the was one of prosperity, atthough the farmer's purchasing power is for the moment lessened by the effect of the poor crops in 1907. The acreage of tall wheat sown in all Canada for the crop of 1909 is five per cent. less than normal, although there have been great increases in the three prairie provinces and in Quebec. The reduction in the general average is caused by the Ontario acreage falling to 86 per cent, of the normal amount owing to the drought and consequent condition of the ground for working. Any loss due to this will doubtless be made up in other directions. Hay and pastures generally were of course affected by the drought. The value of ected by the drought. the hay and other fodder crops, of potatoes and roots, including sugar beets, in Ontario and Quebeo, is very great, and yet in discussing crops from year to year we are apt to forget the importance of these relatively to the cereals. The Government report for November shows the value for all for November shows the value for all Canada of these root, seed, and fodder crops to be \$186,000,000, of which 48 per cent. was grown in Ontario and 28 per cent. in Quebec, the money value for 1998 in the two provinces being \$142,500,000.

For a second time dairy exports are much less than for the record year of 1906, and while this is partly due to the lack of rain and a lessened number of milch cows, we have apparently come to a point in the trade where its growth cannot be judged by the exports alone as it has been possible to do heretofore with a fair degree of accuracy. Fortunately the statistics now published by the Dominion Gov. ernment make a study of the subject quite easy. There has been another marked decline in the total value of cheese exported, the quantity shipped from Montreal being valued at only \$17.142,000, against \$20,941,000 in 1906, although the average price was the highest on record. In butter there is highest on record. In butter there is an improvement of about 50 per cent over the extraordinarily low figure of 1907, but even then we show exports valued at only \$1,266,000, as against \$7,400,000 in 1905. If we compare 1908 with 1903 the loss in value of dairy products exported is about \$8,000,000 however, we take into account the requirements of our greater popula-tion, an increased supply worth about \$9,000,000 is now required for home consumption. But this is not a suffi cient explanation, because the decline in exports has been as great since 1906 as since 1903. There is no doubt that it is also due in a large measure to the more lavish expenditure at hom the more lavish expenditure at home for all dairy products owing to our increased prosperity. The total value of the entire dairy product of Canada for 1998 is estimated at \$94,000,000. There are in Quebec 2,806 factories for making of cheese or butter, h, and in Ontario 1,284, while all the rest of Canada, there are but This comparison gives some idea the opportunity for expansion in this most valuable branch of farming No matter how great is the home con-

enough for our own good is another matter.

Ontario and Quebec.

the falling off in the supply of colon panies; 24 of these are regular shippers, and 15 are paying dividends, prices have been the high. est in twenty years, and, foreign butter makers being unable to supply the deficiency to any considerable extent, it has been supplied by various cheap substitutes for butter, doubtless to the disadvantage of our future trade in the real article.

Exports of apples have also been smaller owing to the prolonged dry weather. As against 630,000 barrels in 1907 we exported only 351,000, in 1908, the average for nine years being 430,600.

The market for horses has been sat-The market for norses has been satisfactory. Owing to the reduction in the herds on account of the lac' of food supplies in 1907, and the dry season of 1908, there is not the same improvement in the cattle of Ontario and Quebec as has taken place in the and a season or two of usually plentiful food supplies will be usually pientiful food supplies will be necessary before we have entirely re-covered. It is also regrettable that the Ontario farmers have for two or the Ontario larmers have lot three years paid less attention to hog raising than formerly, partly, of course, because of the scarcity of food; the effect has been to lessen the steadiness of our supply or pacon and to give our chief competitor, the Dane, a renewed hold on the market in Great Britain.

The stringency in money has affect d the lumber trade of Ontario and nucleo as elsewhere. Large trans-Quebec as elsewhere. actions for a time practically ceased but the manufacturers are as a rule able to hold their stocks, and are unwilling to make much concession in price. There are now signs, both in Great Britain and the United States. of some renewed interest, and this particular trade will doubtless recover its strong resition acqueble. its strong position as quickly as any other. There is naturally some low-ering of the cost of manufacture, although this will not have its full effect upon boards sawn this year

In almost all branches of manufacturing there has been a large falling off in output, causing a considerable number of people to be out of employ ment, and all shop-keepers and tributors of goods experience corresponding diminution in the vol-ume of sales and in profits. This inevitable result of the necessary ch which has come to the world's expansion is now gradually passing away, and we can look hopefully to the future, especially in view of the un usual growth of this country. In In many branches of manufacturing orders are now coming in quite satismany factorily, and many stocks which become low are being replenished.

Much the most interesting feature in the development of Ontario has been the Cobalt mining camp and the prospect of new areas of similar charprospect or acter. The actual silver shipments or 1997 have advanced us to the fourth position among the world's producers, as compared with the fifth position a year ago. We have passed Germany and we may pass Australia in the near future. Up to the close of 1997 near future. Up at aller produced at and we may pass Australia in the near future. Up to the close of 1907 the total value of silver produced at Cobalt was \$11,300,000; and of this about \$6,000,000 was shipped in 1907, the average value being about 65 cents the average value being about 65 cents per ounce. The quantity of ore shipped in 1908 was about double that of 1907, but the average value having fallen to approximately 52 cents per ounce the money result is only about \$5 500,000. Had the price of silver remained as in 1907 the value of the product of 1908 would have been about st2,000,000. The result is in any event very gratifying and is still due largely to development work. The most notable new areas are in the Montreal River district about 75 miles

ers are the examples upon which num erous companies are being created, most of which will not reach the dividend-paying stage. The total capital of the companies listed on the Exchange is about \$56,000,000 and their es are quoted as worth about \$58,-00. In addition to these there 000,000. are many companies whose shares are not listed. It is of course possible that this rich camp may as a whole justify these figures, but, if so, it will almost surely mean that a few have made larve approach. made large sums while a very large number of exceedingly foolish people have lost all that they had invested. While Cobalt can produce silver While Cobalt can produce silver cheaper than any mining area in the world except those where it is a by-product, the fall in the world's price for silver is disappointing. If the low price continues many mines in other countries must close down, and this would tend to a movement upward.

The total value of all minerals produced in Canada in 1907 was \$86 000,-000, against \$65,000,000. five years ago and \$10,000,000 twenty years ago.

While the smaller number of immigrants and other travelers, and the lessened imports, have been unfavorlessened imports, have been unfavor-able factors, Montreal as a port has done well during the past year. It now occupies the fifth place in North America, being surpaused by New York, Galveston, Boston, and New Orleans. The value of incoming and S129,009,009, and of the property of the ments of this great trade the Harbor Commissioners have made important Commissioners have made important improvements of the most modern improvements of character. The Marine and Fisheries Department have also for some years per steadily improving the lighting of the St. Lawrence, and it is claimed that during the last eight years the decline in insurance rates has been such as to make a saving to freight and vessel owners combined of about \$6,000,000

Manitoba, Saskatchewan, and Alberta

There is little to say this year about the prairie provinces that is not pleasant to hear. So far as agriculture is concerned the work of seeding was done under very good conditions, and with ideal weather in June, the san-guine hopes of early July, which went as high as 125,000,000 bushels for were not without justification. But July was too hot, and in August there was some frost. The total yield did not come up to the calculations of the most optimistic, but it is the largest ever secured in all kinds of produce. Both yield and grade, when the grain was not frosted, were good, and with prevailing prices the money rewere good, and turn is of course larger than in any previous year. Our estimate of the previous year. Our estimate of the total quantity of cereals is as follows: wheat, 106,040,000 bushels; oats, 103.200,000 bushels; barley, 23,380,000 bushels; or in all, 232,620 000 bushels, against 160,000,000 in 1907, and 32, 000,000 in 1900. The West has seldom had a season more favorable for the threshing and movement of the crop, and also for the preparation of the threshing and movement of the crop, and also for the preparation of the land for the following year. As a consequence it is estimated that the acreage for 1909 will exceed that of 1908 by 15 to 20 per cent., making a total acreage of 11.500,000, of which about 7.250,000 will be in wheat. With this housiful error fee 1908 and the this bountiful crop for 1908 and the not to forget such years as 1907. There are many avenues of economy and profit open to the Western farmer which because of the ease with which he acquires wealth, he is apt to neglicate the state of the same with the security of the same with the same with which he acquires wealth, he is apt to neglicate the same with the same with the same way to be same as the same as th No matter how great is the home consumption the growth of our dairy sumption the growth of our dairy business should be great enough to provide for it, and barring lean pastures, to increase annually the quannorthwest of Cobalt, where the general tity available for export. It is most unfortunate that at a time when there is a tobalt. It is too early seed it is to the day it may be unfortunate that at a time when there is a tobalt. It is too early seed any paper with the constraint of the countries of the countr

does not use fertilizers to any ream able extent, nor destroy noxi us weeds with sufficient vigor, nor does he prepare for a proper rotation of crops; and it is regrettable that the higher branches of farming, such as darrying, the breeding of good cattle, darying. the breeding of good cattle, borses, logs, and sheeps, and the raising of poultry, are not being more rapidly developed. However, the Manitoba Government is doing good educative work of this kind in its Agricultural College, and the Governments of Alberta and Saskatchewan have shown in many ways that they are alive to these most important questions. The example also of the well trained farmers who are the questions. The example also of the well trained farmers who are to be found in many districts must tell in time; indeed, there are many parts of the three provinces in which great progress in mixed farming is already

From the best information we can get the year just closed is regarded get the year just closed is regarded as an exceptionally good one in the cattle trade. Prices have been suis-factory and the European markets have been steader than at any time since 18½. The prospects for a con-tinuance of good prices seem particu-larly bright owing to the general larly bright owing to the general shortage of cattle in all exporting countries, and especially in the United States. Canadian herds from the Atlantic to the Pacific are now the Atlantic to the Pacific are now reported by Government experts to be entirely free from disease, and a most careful quarantine against foreign countries as to cattle, cattle products. countries as to cattle, cattle products, and horses, is being maintained. On the Western ranges the grass is excellent and well cured, and animals intended for next year's market should come through the winter in good condition. While it is difficult when the statement of the market in the second of the market in the second of the market with the second of the mar good condition. While it is difficult to obtain reliable records of the number of total movement of cattle in the West, the following figures will be of interest. The shipment for export for the last four years has been as

1905				64,287
1906				86,575
1907				
1908	(to	5th	December)	100,454

These figures indicate clearly the severity of the winter of 1906-7, and also the recovery from its effects. The total number of cattle, horses, and sheep in the three provinces is esti-mated as follows:

Cattle. Horses. 942.625 - 340,329 182,6161,944,598 682,919 304,5312,073,840 737 639 307,682 1906

Now that the slight check to the growth of the West, caused by the world-wide stringency in money, the oor crops of cereals, and the bad win poor crops of cereans, and the said wing ter for cattle, is passing, it may be well, if you are not already tired with figures, to give some of the evidence afforded by statistics of the rapid growth of the prairie provinces. We have already dealt with grain and cat-tic. In lumber the cut for the cat-In lumber the cut for the coun-between Lake Superior and the Rocky Mountains—a district not very important in timber areas compared with other parts of Canada—has grown from 119,000,000 feet in 1899 to 266,000,000 feet in 1907. In coal from mines in Alberta and Saskatchewan, the growth in the same period has been from 334,000 to 1,757,000 tons. The grain storage capacity, including terminal elevators, has grown from a little under 20,000,000 bushels in 1899 to 61,000,000 bushels in 1998. The milling capacity, of which we have no records for 1899, has grown from under 20,000 barrels per day in 1908 to over 40,000 barrels per day in 1908.

The railway mileage in the three provinces has grown from 2,000 miles in 1900 to 8,560 miles in 1908, and the mand for branch lines is still as essing as ever. The Premier of Aldemand for brainen lines is suil as pressing as ever. The Premier of Alberta has stated his views as to the necessity for greater transportation facilities in his province so urgently, that we cannot doubt but that his people and those of Saskatchewan are keenly alive to the advantage and necessity of being able to get their crops speedily to the seaboard. The movement of cars will illustrate the poorment of the control of the co ness of the crop of 1907 and the excel-lence of the crops of 1906 and 1908 and also the improved capacity of the railroads. For the twelve months end ing 31st August, 1907, the number of cars carrying grain was 80,507; for the corresponding period in 1908 63, 978, while for only three months of 1908, from September to November in clusive, the number to November in clusive, the number was 48,888. In southern Alberta and at scattered points elsewhere there have been strong complaints of car shortage, but as a whole the service of the railroads has been better than usual.

The number of homesteads and pre

emptions exceeds all previous records, partly because of the new Land Act, which came into force only on 1st September, since which time a great rush has occurred. The number of entries during the first nine months of the next three years has been detailed. the past three years has been as fol-

37.690 23,129 41,963

It seems safe to assert that the new policy of the Dominion Government regarding the desirability or other-wise of those who propose to settle in Canada is bearing good fruit, as th who have taken up land during 1908 who have taken up land during 1906 have been as a rule of a better class than in previous years. The number of settlers coming into the three provinces during the past year is estimated at 105,000 of whom about 40 per cent, were from the United States. The population of the three provinces has grown from 414,000 in 1901

Vinces has grown from 414,000 in 1901 to 975,000 in 1905; the value of goods entered at the Customs Department from \$8,200,000 in 1899 to \$25,000,000 in 1997; the number of branch banks from 29 in 1899 to 507 in 1909; the bank clearings from \$107,786,000 in 1899 to \$717,423,000 in 1908.

These figures abundantly illustrate the prosperity of the West, and we may fairly expect that Eastern business dependent on the West will now improve. Still it must be remembered that, owing to the poor crop and the cattle losses of 1907, the West, so far as its immediate buying power is concerned, is not very much ahead where it was at the end of 1906. It sincerely to be hoped that the desire to spend freely and to incur debt will not immediately return, and that some of the lessons in economy may remain permanently impressed upon the people.

view of the rapid destruction timber going on throughout the world, a correspondent of the London Times. in a recent article, draws attention to the quantities estimated as still standthe quantities estimated as still stand-ing in the Pacific Coast areas of North America, as follows:—Oregon, 225 bil-lion feet; Washington, 195 billion; California, 180 billion; British Colum-bia, 150 billion; Idaho and Montana, 100 billion; a total of 850 billion feet. Canada, as a whole, is credited with 500 to 600 billion feet. The deep interest of the European world in these last great stands of timber in North America should not be torgotten when we consider our own national future. We may see the forests on which we have placed so much reliance disappear with a rapidity which we have not supposed possible. The quantity and value of the lumber produced from the Doughas fir of Oregon and Washington, the sugar pine, the white was the produced from the Doughas fir of Oregon and Washington, the sugar pine, the white starting manner the depletion which is going on, and the enormous money value of these staples:

Feet Value America should not be torgotten when

production 1905—4,940,000,000 production 1906—6,080,000,000 production 1907—5,200,000,000

Taking all the varieties of lumber into account, Washington exceeds all other states in output, the product in 1907 being nearly 4,000,000,000 feet. The total product of the whole United States in 1907 was about 40,000,000,000 with an estimated value of \$666,-

Shipping Cheese to Great Britain

(Continued from Page 17) The firm handling those cheese must have realized a better profit than they could have done had they than they could have done had they paid the same price to our factory, sold to the retailer for the same price as they did, and besides have paid a Brockville buyer one-eighth of a cent a pound commission, a Montreal agent another one-eighth cent for his twolkle of valcesification. trouble of unloading, storing, inspecting and reshipping, besides paying for cartage and dock dues at Montreal.

The results of our commission sales

bring us to the question, whether the opportune lesson cheese cannot be sold right at home a credit system.

on a through shipping basis. on a through shipping basis. The importers will co-operate with us in eliminating this encumbrance of trade, the Montreal inspection) and buy our cheese right on their reputa-tion, and at home. In this way we should gain security, we should gain at least the major portion of the saving in transit, we would obviate the possibility of injurious speculation and sell our cheese to a certain extent on their merits. All these advantages are aimed at by this association.

CONCLUSIONS

Cheese can be exported from any railway station, direct without in any way hazarding the value of the cheese, if reasonable care is observed in box-ing and handling prior to shipment.

English firms will meet us either as purchasers at home or as agents sell on commission. Upon shipments for sale on commis-

sion there is no certainty of receiving either market prices ruling in England or better prices than are ruling at home. Like Montreal inspection, there is an uncertainty about it, as carried is an uncertainty about it, as carried on the past season, far from satisfy-ing. This, however, might be over-come; in the first place as to security, no doubt the firms would be willing to make a larger advance; then as to guarantee of fair returns of proceeds, it could be obtained we would suppose in this way: Visit our customers in Engthis way: Visit our customers in Eng-land (should we anticipate sufficient business in this to make such a pro-ceeding profitable) through a repre-sentative from ourselves, with a view of getting a special insight into the business, such as locating as far as possible the customer of each partipossible the customer of each parti-cular factory, and arranging with that grocer to furnish direct to each fac-tory secretary the season's account of all that factory's cheese purchased by him, thus auditing the account sales nim, thus auditing the account sales as rendered to us by the firm selling the cheese. In this way we would be placed right in touch with the retailer himself, as has already been pointed out, to the undoubted advantage of good factories. The sudden collapse of the wealthy firm of Willer & Riley, Limited, capitalized at 350,000 pounds, with unlimited credit with unlimited credit, points again to the lack of stability of the most apparently substantial and prosperous firms, and furnishes us a very apt and opportune lesson on the insecurity of



MARKET REVIEW AND FORECAST

*********************************** Toronto, Monday, January 25th, 1999.

The improvement in general trade continues. Everything points to a busy spring. The easing up in bank credits is helping the situation very much. A feature of the situation is the better meeting of paper by western houses. The pay-ting of loid accounts and the asking for less credit, is a hopeful sign and means western Ontario dealers are asking 5c to like a bush. more, quoting car lots of 3 ib. less credit, is a hopeful sign and means more money is seeking investment both from private and banking resources. Call loans rale at 4 per cent, and discounts rule at 4 per cent, and an employment of the properties of the season. New-laid at an an employment of the properties of the season. New-laid as an employment per large the polarity of the properties of the

WHEAT

WHEAT

The general wheat situation rules steady. Large shipments from Argentine and Australia and Au tion indicates that Europe will need a lot of wheat before the new crop is harvested but whether this will mean higher prices towards the end of the season remains to be seen. Locally the market is strong. Farmers are not marketing their wheat and the amount of wheat in dealers' hands is very small. Some look for a hands is very small. Some look for a shortage in Ontario wheat before the sea-son is over. The demand from millers just now is quiet, but the small receipts keep the market strong. There is very little exporting being done as prices are too high for profitable business. Deal-ers here quote wheat at 95½ to 97e as to quality at outside points. On Toronto farmers' market fall wheat sells at 96e to 90½e, and goose at 91e to 92e a bush.

COARSE GRAINS

The oat market, though quiet, owing to light deliveries, is strong. There is said to be plenty of oats in the country. On-atrio oats are quoted at Montreal at 45% to 45% a bush. Prices are higher here, side and 45% to 45% a bush. of 610 cut of a market. The barley market rules strong under light deliveries. Matting barley is quoted at Montreal at 63c to 56%, and Manitobs feed barley at 52c to 56%, and Manitobs red barley at 52c to 56%, and Manitobs red barley at 52c to 56%, and Manitobs feed barley at 52c to 56%, and Manitobs feed barley for mid-under the feed barley for mid-under the feed barley for mid-under the feed barley for the local market here. Feed barley at 56c to 56c outside, and 55c to 55c for the local market here. at market, though quiet, owing to

FEEDS

Mill feeds continue strong at about last week's quotations. Manitoba bran is quot-ed at Montreal at 821 and shorts at \$34, and Ontario bran at 821 to \$21.50, and shorts at \$24 to \$24.50 a ton in car lots, in bags. Bran is quoted here at \$20.50 to \$25 to \$25.50. in bags. Bran is quoted here at \$20,90 to \$24 aton in \$21.50 and shorts at \$23 to \$24 aton in ear lots outside. Corn is not so plential and the market is higher. American corn is quoted at Montreal at 70% a bush in ear lots. Prices here rule at \$000 to \$100 to \$ onto freights.

SEEDS

There is no change in the seed situa There is no change in the seed sivua-tion. Dealers quote prices at country points at \$6.50 to \$7.50 a bush, for alsike, \$4.50 to \$5.25 for red clover, which is a little higher; alfalfa \$7.50 to \$8, and im-othy at \$1.50 to \$2.10 as to quality.

HAY AND STRAW

HAY AND STRAW

At Montreal a break in prices of 50c a
ton has taken place, owing to large receipts and the light export demand. Baled
hay is quoted there at \$11.50 to \$12.50 for
No. 1; \$89.50 to \$10.50 for No. 2; \$8 to \$85.50
for No. 3; \$7.50 to \$8.50 for clover mixed,
and \$7 to \$87.50 for clover in car lots. The
market here shows no change. Baled
timothy is quoted at \$11 and inferior at
\$5, and baied straw at \$7 to \$7.50 a tom
ton false on track. Toronto. On Torton to false on track. Toronto. On Torton to \$1.50 t

POTATOES AND BEANS

The potato market rules steady and firm. common, \$3.50 to \$5.6 uebec potatoes are quoted in Montreal and canners at \$1.76

treal at 27c to 27/s. Receipts of the cheap-er grades have increased here during the week and the market for this kind is easier. Choice creamery and dairy rules casier. Choice creamery and dairy rules of the control stock at 20c to 21c a 1b. and inferior ners' market dairy perions sell at 20c to mers' market dairy perions sell at 20c to mers' market dairy prints sell a 30c, and solids at 25c to 27c a lb. at 28e to

UNION STOCK YARDS HORSE EXCHANGE

Trade in horses during the week was on the quiet side. While there seems to be desired the seems to be desired the seems to be desired to be d

LIVE STOCK

Live STOCK

Considering the large run during the week, trade has ruled fair. There is an overplus of unfinished light heiters and steers being marketed and prices for these fell off considerably towards the end of the steers being marketed and prices for these fell off considerably towards the end of the steers being marketed and prices for these fell off considerably towards the end of the steers and kinds are floored principles and kinds are floored to the steers were on ale. Prime quality steers were on demand, and more of them would have found ready sale. Dealers report after this week, styling the steers were on demand for export action of the styling principles are styling to the styling that the styling the styling that the styling that

RAW

Write for Weekly Price Lists. JOHN HALLAM

Shipments Solicited. TORONTO, ONT.

ur tie an sh

fro

3

K of Car Hal

ron o'el mee a. r due Tor

1909

HOI of fat 606.1

ford Fo Inka at 5 tion butt

Cli seve vale Own

ville

Inge Pri 15d.

lbs. 1 den's milk

Inge Inl 13d. 1bs. 1 399.9

soll, Pie

age. equiv

Ont.
Que
4d. of
fat
6376.4
den's
Jud
17d.
lbs. f
505.1

Sumr 22d. lbs. milk Folde

Que of as fat e 262.0 ford.

San 25d. c 1bs. f: 321.3 soll, c Miss of as fat e 296.1

2y. 3n 9.53 18

There was a fairly brisk trade in feed-ers last week, receipts of unfinished butch. \$5.75 to \$6, ewes as \$8.75 to \$8 and rame brought up for feeding my of them were at \$5 to \$8.25 a cet; hogs are quoted weighing from 80 lbs. up are in good de-mand, and prices rule steady to istrong for anything with quality. Quotations are as follows: Best feeders, \$0 to 100 lbs. each.

cwt. Hogs are quoted on the market here at Mogs are quoted on the market here at \$5.50 for selects, and \$6.25 a cwt. for lights, fed and watered. Prices are reported higher than this at many country points. Some dealers report having p.i.d \$6.25 to farmers for hogs and have the mogs and have the prices of the selection of \$6.55 and \$6.60, f.o.b. at countries them for \$6.55 and \$6.60, f.o.b. ing resold them for \$6.55 and \$6.60, fa.b. at country shipping points. There is certainly a searcity of hogs in the country, and packers will raise their limits frequently to get the supply. The Buffalo market is reported active. Heavy hogs are quoted at \$6.55 to \$6.55; light mixed, \$5.55 to \$6.50; hogs, \$4.75 to \$5.60; bulk at 10.50; hogs, \$1.75 to \$6.50; hogs, \$4.75 to \$6.50; hogs, \$1.75 to \$6.50; hogs, \$1.75 to \$6.75; hogs, \$1.75 to

The Wm. Davies Co., Toronto, will pay \$6.40 f.o.b. for hogs at country points this week. Although the bacon market shows considerable improvement, the advance in prices here for hogs is due to local con-ditions and the scarcity of hogs in the country. Unless the bacon market con-tinues to improve present killings will lose money. There are too many fat and over-done hogs being marketed. These kill out very well but do not produce sizeable bacon that will command the highest bacon that will command the highest price in the English market. Farmers seem to have held their hogs for higher prices and many hogs are being marketed to-day that should have been killed a few weeks ago.

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, January 33. — The
receipts of live hogs into the city were
very light this week and as there was a
fair demand, dealers had no difficulty in
large and the bulk of their offerlarge and their offerlarge and their offerprice obtainable. There is every prospect
price obtainable. There is every prospect
offersize are not likely to be heavy of the
complete of the complete of the complete of the complete of the
complete of the complete of the complete of the complete of the
complete of the complete of the complete of the complete of the
complete of the complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete of the complete of the
complete o

osipts are not likely to be heavy for some time to come, and they are barely sufficient for the trade at present. There is a good trade doing in dressed hops, and prices on these are well main-\$10.25. Quotations range from \$9.75 to \$10.25. Quotations a cwt., according to quality

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE
Montreal, Saturday, January 25. — The
duliness noted in the trade last week has
continued throughout this week. Bales
have been few and far between, consistbeen few and far between, consistpicked up at mail lines that could be
poked up at least a state of the conpicked up at line and the control of the
general asking prices for finest goods. One
tations are still ranging up to 13 5-46 for
finest goods according to section, but there
is no doubt that with an order in hand
to be the control of the control of the
trade of the control of the control of the
trade of the control of the control of the
trade of the control of the control of the
trade of the control of th

canadian bacon, \$\pi_0\$ to \$\pi_0\$ any annual state any absolute the content to take all Octoberrous UNION STOCK YARDS PRICES

WEST TORONTO, Monday, Jan, 25th—
There were \$2\$ cars at the Union Stock Yards this morning composed of 1971 varies this morning composed of 1971 when the composed of 1971 were active and really choice and the content of the



It is desi-able to mention the name of this pubcation when writing to ure. They have still considerable quanti-ties of unsold cheese on hand, however, and are anxious to see them cleared. The shipments have been small this week, not more than ten or 12 cars having cleared from this city, representing about 5,000 or the constant of the constant of the con-traction of the constant of the con-traction of the con

or 6,000 boxes of cheese.

There is a firmer feeling in butter. The receipts of fresh goods are very small, and there is a steady movement in held stocks at prices ranging from 26c to 27% acceptable to 20%.

HOLSTEIN FRIESIAN NEWS

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

Keep in mind the 26th annual meeting of the Holstein-Friesian Association of Canada, which will be held in Association that, corner Yonge and McGill streets, To-voice on Turneday, Feb. 4, 1996, at 9 voice of the Proquest Hold, and the Proposition of the Propos

HOLSTEIN-FRIESIAN OFFICIAL TEST, FOR DECEMBER

Lady Aggie DeKol (4127) at 6y. 5m. 29d. of age, soven days' production 21.81 lbs. fat equivalent to 25.46 lbs. butter, milk 606.13 lbs. Owned by M. L. Haley, Springford, Ont.

Four-time of the state of the s

ville, Ont.

Pride of Lindencourt 2nd (10128) at 6y.

4m. 29d. of age, seven days' production
13.86 lbs. fat equivalent to 16.17 lbs. butter,
milk 391.9 lbs. Owned by Andrew Dunn,

milk 331.9 lbs. Under Ingersoll, Ont. Princess Calamity Wayne (5142) at 4y. Princess Calamity Wayne (5142) at 4y. 54d. of age, even days production 1514 lbs. fat equivalent to 17.78 lbs. butter, milk 444.1 lbs. Owned by Walburn Rivers, Fol-

den's, Ont.

Hulda Wayne Johanna (5425) at 4y, 7m,
25d. of age, seven days' production 14.16
lbs, fat equivalent to 16.45 lbs, butter,
milk 401.5 lbs. Ont.

Ungersoll, Ont.

Inka Mercedes Posch (7206) at 3y. 3m.

Ingersoli, vie.

Inka Mercedes Posch (7206) at 3y. 3m.
13d. of age, seven days' production 14.10
1ba. fat equivalent to 16.46 lbs. butter, milk
399.9 lbs. Owned by Andrew Dunn, Inger-

soll, Ont.
Pietertje Floss (8471) at 3y. 6m. 28d. of
age, seven days' production 13.70 lbs. fat
equivalent to 15.98 lbs. butter, milk 361.7
lbs. Owned by Andrew Dunn, Ingersoll.

Ont.

Queen Abbekerk Wayne (7176) at 3y. im.

4d. of age, seven days' production 12.73 lbs.
fat equivalent to 14.85 lbs. butter, milk
376.4 lbs. Owned by Walburn Rivers, Fol-

76.4 ibs. Owned by Walburn Rivers, Fol-len's, Om. Juddy Pietertjo Maid (621) at 3y. 3m. 7d. of age, seven days' production 11.21 bs. fat equivalent to 13.20 he. butter, milk 65.1 bs. Owned by George Wm. Pallett, summerville, Ont. Duchess Christmas (61t (7278) at 2y. 10m. 24. of aws. awou daws' uroduction 10.94 17d.

22d. of age, seven days' production 10.94 lbs. fat equivalent to 12.77 lbs. butter, milk 278.8 lbs. Owned by Walburn Rivers,

Folden's, Ont. olden's, Ont. Queen Butter Baroness (7652) at 2y. 30d. f age, seven days' production 10.73 lbs. at equivalent to 13.10 lbs. butter, milk 62.0 lbs. Owned by M. H. Haley, Springford. Ont

ford, Ont.

Samanth a Faforit Keyes (8472) at 2y, 6m.
25d. of age, seven days' production 10.37
1bs. fat equivalent to 12.21 lbs. butter, milk
321.3 lbs. Owned by Andrew Dunn, Inger-321.3 soll. Ont.

soll, Ont.

Miss Sadie Pietertje (6700) at 2y. 8m. 20d.
of age, seven days' production 9.72 lbs.
fat equivalent to 11.34 lbs. butter, milk
296.1 lbs. Owned by Geo. Wm. Pallett,

254.1 bs. Owned by Geo. was.
Summerville, Ont.
Hasel Maiden Mercedes DeKol (fulls) at
Y. 3m. 24d. of age, seven day's production
9.53 bs. fat equivalent to 11.12 bs. butter,
milk 237.2 bs. Owned by P. J. Salley,
Lachine Rapids, Que.

Johanna Keyes (8425) at 2y. 7m. 2id. of age, seven days' production 906 lbs. fat equivalent to 1.037 lbs. butter, milk 28-9, lbs. Owned by Andrew Dunn, Ingersoll,

Ont.

Daisy DeKol Wayne (7277) at 2y. 6m. 17d.
of age, seven days' production 8.07 lbs. fat
equivalent to 9.41 lbs. butter, milk 244.1
lbs. Owned by Walburn Rivers, Folden's,

Out.

Queen Josephine Keyes (8424) at 2y. 7m.
3d. of age, seven days' production 5.01 lbs.
fat equivalent to 9.34 lbs. butter, milk
216.1 lbs. Owned by Andrew Dunn, Ingersoll, Ont.—G. W. Clemons, Secretary.

The cash prizes given by The Metal Shingle & Siding Co. for names of per-sons intending to build this year is well worth the small effort it calls for on the part of our readers. Read their advt. on page 13 of this issue.

The fountain pen I received from you, for obtaining a new subscriber to Farm and Dairy, is in every way satisfactory.—Thomas K. Grover.



ROCK SALT for Horses and cattle, in tons and carloads. Toronto Salt Works, Toronto.

JERSEYS

DON JERSEY HERD Can furnish you with young bulls sired y Golden Lad of Thorneliffe, who was fire of the ist prize herd at the Toronto ixhibition, 1907. If you want practical noney making Jerseys, secure one of hese well bred bulls. Exhibition.

Duncan Station, O. N. O. Ry. 04-09

HOLSTEINS

HOLSTEINS FOR SALE.—Thirty females from one to seven years. Six young bulls from advanced registered stock, Justice H. McLean, Inkerman, Ont., O. p. R. E-1-27-09

FOR SALE-30 HEAD of HOLSTEINS If you are wanting a choice young cow of eifer it will pay you to write me before making yourselection or better come and pick them out GORDON H. MANHARD 8-5-5-09 Manhard P.O., Leeds Co., Ont 7 miles sorth of Brockville on C.P.R. (Clark's Cressing)

SPRINGBROOK HOLSTEINS AND TAMWORTHS

32 Choice Young Tanworths, from imported sows and sired by imported Knowel King David. A few rich bred Holstein halls and several females. Bargains to quick buyers.

A. C. HALLMAN,

E-5-11-09

HOME-BRED AND IMPORTED

HOLSTEINS

We must sell at least ag cows and heifers at once, to make room for the natural increase of our herd. This is a chance of a lifetime to get a good bargain; we also have a few young bulls, Pontiac Hermes, Imp., son of Henderveld DeRol, world's greatest herd, Come and see them.

H. E. GEORGE, CRAMPTON, ONT.

Putnam Stn., 11/4 miles-C. P. R. E-4-8-09 **MISCELLANEOUS**

JOS. FEATHERSTONE & SON, Streetsville, Ont arge Yorkshire Hogs for sale, F-11-09 R. H. HARDING, Maplview Farm, Thorndale, Ont. Dorset Sheep a specialty. Telephone. E-3-17-09

J.A. GOVENLOCK, Forest, Ont., Herefords, Canada's greatest winners. Toronto and London, 1907-1908. Stock, all ages, for sale. E-3-10-09 HARRISON BROS., Mr. Albert, Hereford cattle, Oz

PONIES FOR SALE

Exmoor and Shetlands of all ages and sexes, broken and unbroken.
P. A. BEAUDOIN, .
0-6-2-99 107 St. James st., Montreal. BERKSHIRES AND TAMWOFTHS Choice Berkshire Boars fit for service and sows ready to breed, by imported sire. Choice Tamworths, all ages, by a Toronto and London prize winning boar. Prices low, considering quality.

AYRSHIRES

JAS BEGG, ST. THOMAS, AYRSHIRES, Standard for this herd is 40 lbs. milk per day. No culls. e-3-19-01

SPRINGBROOK AYRSHIRES

re large producer of milk, testing high in butter fat oung stock for sale A few choice bull calves of 1008 ready to ship. Prices right. Write or call or e-4-1-09 W. F. Stephen, Huntingdon, Que.

NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottawa, and Halifax. Long distance phone e-3-25-00 W. W. BALLANTYNE, Stratford, Ont-



STOCK FARM Ayrshires, Clydesdales and Yorkshires, Write for special prices on Bull Calves,

GEO. H. MONTGOMERY

SUNNYSIDE AYRSHIRES

Have been bred and imported with a view to combine quality with production. The herd contains some noted winners. Nether Hall Goodtime (Imported) now heads the herd. Young stock for sale. Address—

J. W. LOGAN, Howick Station, Que

SPRINGHILL AYRSHIRES Imported and home bred stock of al ages for sale. See our stock at the leading shows this fall. Write for prices.

ROBT. HUNTER & SONS

Maxville, Ont. E 6-23-00 Long distance phone.

JUST BULLS



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

HOLSTEINS

EVERGREEN STOCK FARM Holstein cattle and Tamworth swine, Bull calves for sale, with good official re-cords behind them; also Tamworth spring pigs. For particulars write THOMAS DAVIDSON, Spring Valley P. O. Brockville Station

SUNNYDALE HOLSTEINS

FOR SALE, two bulls, 9 months old, with official record dams, price \$40 each. Also makes the same price \$40 each. Also grade with the same price same price same learners with the same price same price same price of the same price of the breach, the only sire of two daughters with records of over \$2 lbs. butter in 7 days. Prices reasonable.

A. D. FOSTER, Bloomfield, Ont. Mention Farm and Dairy when writing. 0-9-8-09

AYRSHIRES

DAVID A. MACFARLANE, Kelso, Que. milkers, good testers and good lookers. Several young bulls for sale; prices right.

AYRSHIRES FOR SALE

A fine lot of young bulls and calves; also the famous stock bull, "Not Likely of Ste. Annes, 19740," Come and see his off-spring. Also Shetland ponies and Yorkspring. All shire pigs.

D. BODDEN, Manager, Riverside Farm, Montebello, Que Hon. W. Owens, proprietor. 0-6-16-09

RAVENSDALE STOCK FARM



Ayrshires, Clydesdales If in need of good stock, write for prices which are always reasonable,

W. F. KAY, Philipsburg, Que.

BURNSIDE YRSHIRES

Are in such demand I will mote another importation. Will attend great dispersion sale of the world re-nowned Barchesis Herd of Mr. And, Mirchel, Kircusbright, Scotland, where some poor the choice of Arpharse vero offered will be sold. Orders end Arpharse vero offered will be sold. Orders end of the control of the contro R. R. NESS, Howick, Que.

HUME FARM AYRSHIRES

On hand young bulls for service. Several very choice August, 1906, also heifers in ealf, young cows, and cows any desired age. Family cows a specialty. Orders age. Family cows a specialty. Orders porting or Torkshire pigs, orders for importing the property of the proper

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

STONEYCROFT STOCK FARM

Harold M. Morgan, prop., Ste. Anne de Belleuse. Choice young Ayrehire Bulls and heifers for sale. Yorkshire pigs from Imported Sires and Dams. February and March Hiters. Largest selection. High-est quality. Write for prices. E 5-26-09 E. W. BJORKELAND, Manager

STADACONA YRSHIRES THE CHAMPION AYRSHIRE COW

THE CHAMPION ATMINIER COW
Of Canada, for sulk, according to the last Head,
Book, is Daisy of Carthein, Reg. No. 11.34. She
Book, is Daisy of Carthein, Reg. No. 11.34. She
I own her yearing bull, which is for sale at a
reasonable figure. He is rigrounce, quite large for
massonable figure. He is rigrounce, quite large for
massonable figure. He is rigrounce, quite large for
another than the state of the company of the company
of the company of the company of the company
of the company of the company of the company
of the company of the company of the company of the company
of the company of the company of the company of the company
of the company of the company

STONEHOUSE STOCK FARM



Here may be seen some of the best Ayrshires in Canada, Imported and home bred. Record of performance cows and heifers Prices of stock quoted on application.

HECTOR GORDON. Howick, Que.

STOCKWOOD HERD OF AYRSHIRES stands for everything that is best in this Dairy Breed. Our success in the show yards proves the excellence of our herd STOCKWOOD HERD OF AYRSI in this Dairy Breed. Our success in the sho FOR SALE—Stock of both sexes. D. M. WATT, St. Louis Station, Que

IMPERIAL STOCK FARM Present offering 13 grandly bred Hol Sires dam, Mercena 2rd, 27.65 lbs. Butter in 7 days. D. Abuskers Mercena 2rd, 57.65 lbs. Butter in 16 days. D. Abuskers Mercena 2rd, 57 days. Sire G. D. Altig Posh 4th, 33(8 lbs. Butter in 7 days, a 19 kg. abusker 18 kbc) 13.81 lbs. Butter in 7 days, a 19 kg. abusker 18 kbc) 13.81 lbs. Butter in 7 days, a 19 kg. abusker 18 kbc) 13.81 lbs. Butter in 7 days, a 19 kg. abusker 18 kbc) 13.81 lbs. Butter in 7 days, a 19 kg. abusker 18 days abusker 18 days abusker 18 days 18 kbc) 13.81 lbs. Butter in 7 days, a 18 kbc) 13.81 lbs. Butter in 7 days, a 18 kbc. abusker 18 days 18 kbc. 2 kbc. 2

Harley Sta., G.T.R. W. H. SIMMONS, New Durham P.O.



Union Stock Yards---Horse Exchange WEST TORONTO, The Great Wholesale and Retail Horse Commission Market

has urfax whosteans and actual horse Commission market Auction Sales of Horses, Carriages and Harness every Mon-day and Wednesday. Private Sales every day. The largest, best equipped and most sanitary stables in Canada. Half-mile of railway-loading chutes at shable door Quarter-mile open track for showing horses. NORTH-WEST TRADE A SPECIALTY.

HERBERT SMITH

Prices low, considering quality.

J. W. TODD,

Bellico

Coristit, Out.

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

пессоловововососсос OUR FARMERS' CLUB

QUEBEC COMPTON CO., QUE.

COMPTON CO., QUE.

COMPTON CENTRE—A result that took off much of the snow. I bend the wells and springs considerably. Heling the snow, some have failed again. A farmer near here has a well that has been dry and the snow of the snow of

ONTARIO LEEDS CO., ONT.

GANANQUIE—At meeting of the Woodburn Cheese Fuctory patrons, January 14th, they decided in a whey-butter outfit and Mr. J. But in a whey-butter outfit and Mr. J. But in a whey-butter outfit and Mr. J. But in a whorehold of the warmen of the word of the warmen of the warmen outfit and warmen outfit and warmen outfit and warmen outfit and warmen outfit of the word of the warmen outfit of the warmen outfit of the word of the warmen outfit out

MASTINGS CO., ONT.

SIDNEY CHOSSING.—There has been a good deal of ea and not much snow on the fall wheat and meadows but they are although a substituted by the substituted of the subs HASTINGS CO., ONT.

DURHAM CO., ONT. BLACKSTOCK. — Good big horses are in demand; local buyers are offering around the 200 mark for good animals. There is not much land changing hands this winnot much land changing hands this wintor much land changing hands this winton much land changing hands this winmost farms being under one for we cannot,
most farms being under the control of the
pants. Enterprising farmers are overhauling harness, machinery, etc., in order
to save valuable time in the spring and
summer mouths. They are also making
summer mouths. They are also making
summer mouths. They are also making
summer on one on account of the
variety of weel new on acc

VICTORIA CO., ONT.

Oakwood.—On Thursday, 14th inst., a very second meeting of the Farmer's institute of the meeting which is the form Hall for the mea, the farmer of the church for the ladies. Both meeting were well attended. The evening session which was interspersed with music session which was interspersed with the session with the session was interspersed with the session was interspersed with the session was a session was a session with the session was a session was a session with the session was a session with the session was a session w



Black Watch

The Big Black Plug.

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.
WICKLOW-Recent rains have improved
the water supply very much, to the relief
of stockmen. Stock generally is wintering
well. Feed is not as scarce as anticipated last autumn. Those having silos
are fully realizing their benefit—B. H.
WHETLINGTON C., ONE, B. H. WELLINGTON CO., ONT.

WELLINGTON U. U. UNI.

MOUNT FOREST.—We had a good rain
recently that helped the springs somewhat; however, many are short of water
yet. Farmers' Institute and Women's Inwhat; however, yet, Farmer's institute and womens — yet, Farmer's institute and womens attention of our people. The attention of our people. The attention of our people the people when the people were seen a great benefit in the peat and there is a good work yet to be done. The great progress that the work of the people were institute has made should be a men's institute has made should be of the people when it is not the people when it is not the people with the people were the people when it is not the people with the people were the people were the people with the people were the people with the people were the people were the people with the people were the people were the people with the people were the done. The great progress that the Wo-men's Institute has made should a lesson to the Farmers' Institute to lesson to the Farmers' Institute to meetings monthly, or oftener, and to the pend more upon local talent for discus-sion and entertainment. Great good and accomplished in the present ser-ies of many of the series of the series of the majorets as any of the series of the series of majorets as a more favorable and weather seem to be more favorable and weather seem to be more favorable states this winter than last—C. 8. No.

BRANT CO., ONT.

BRANT CO., ONT.

FALKLAND.—Hogs are rising in value, shippers bidding 86.25 a cwt. now. The Western Ontario Dairymen's Association and held at Brantford on Jan. 13 and 14 and 14 and 15 and 16 and 16

cause for non-preduction—L. T. TEMPO.—I have for years back kept a correct account of the sales of our farm. The following are a number of prices resided for farm produce during 1873 and several control of the produce was sold on the years ago. The product was sold in 1873 and prices were received for articles sold at home or on the farm. To save space I'll and years ago. The years ago was sold in 1873 and 1874. (Clovers but all was sold in 1873 and 1874. (Clovers but all was sold in 1873 and 1874. (Clovers but all was sold in 1873 and 1874. (Clovers but all was sold in 1873 and 1874. (Clovers but all was sold in 1873 and 1874. (Clovers but all was sold and young special years on the years of years of the years

NORFOLK CO., ONT.

COURTIANN—The man with the portable engine is busy, either buzzing wood or cutting formation of the continuous co

ELGIN CO., ONT.

FROME—Stock are not doing as well as they should owing to the scarcity of water that are prevailed. Prices, however, are good for the stock. Feeling that they should own the stock feeling they are the scale of the stock. Feeling they are they are the scale of the s

BRUCE CO., ONT.

BRUCE CO., DNI.

WALKERTON.—The agricultural conditions of our country have undergone many
changes during but it or is years. We
were operating at but time quite a number of cheese and but not factories one
cheese factory in our
formal working as high as it town off
cheese. Now there is not one cheese fac-

IVE HOGS

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

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$6.60 a Cwt. FOR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, - HULL, - BRANTFORD

tory in the county making choese and very few, if any, butter factories making butter. One naturally asks why the great ator change? One reason is scarcity of help on the farm. Whired help will not milk."

It for a many consistent of the farm of BRITISH COLUMBIA

BRITISH COLUMBIA

NANAIMO CO., B. C.

DUNCAN.—The report of the Cowlehan Creamers and the courter of 15,433 line of butter sold for 3 courter of 15,433 line of butter sold for 3 courter of 15,433 line of butter sold for 3 courter of 15,433 line of butter sold for 3 courter of 15,433 line of 16,433 line of NANAIMO CO., B. C.

COMBINATION SALE OF STOCK FEB. 5th COMBINATION SALE OF STOCK FEE. 5th Messrs. A. A Morden & Son, of Wellington, Ont., in order that they may devote their whole attention to their extensive canning and other interests, have decided to offer to the public their entire herd of high-class productive Ayrshires. This herd has been built up by the personal attentions of the owners themselves, with a simple eye to high production and general tions of the owners themselves, with a single eye to high production and general utility and consists of eleven cows in calf their grand bull Prince Rob, bred by the constant of the constant

I foremost authorities on Ayrshires in Cang ada, from such well-known herds as Senator Wm. Owens, Montbello, Que, Jazstor Wm. Owens, Montbello, Que, Jazstor Wm. Owens, Montbello, Que, Jazstor Wm. Owens, Montbello, Que, JazJacobs, Jacobs, Jaco ost authorities on Ayrshires in Can

FREE TRIP TO CALIFORNIA

The Frost Wire Fence Company, of Hamilton, On Large always doing something unique the property of the property The Frost Wire Fence Company, of Ham

LAMENESS from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone or simi-

ABSORBINE

TO

I own. Name

A \$5,000 DAN PATCH STALLION FREE



THIS NEW PICTURE OF DAN PATCH IN SIX BRILLIANT COLORS

Mailed Free

This new picture of Dan Patch 1.55 is the Fines I have ever gotten out for framing. It is printed in als brilliant colors and is free of advertising. It is grinted in als brilliant colors and is free of advertising. It is given bia age and a list of the sax miles paced by Dan., Being made from a "Speed Photograph" it ablove has miles paced by Dan., Being made from a "Speed Photograph" it ablove his filelike as if you stood on the track and as an him in one of his marvellow as filelike as if you stood on the track and as an him in one of his marvellow as filelike as if you stood on the track and as which in one of his marvellow as a sever seemes flores Greaton and the Fastest Harness Horse the world has ever seemes flores Greaton and these Large, Beautiful, Colored Pictures of Dan Patch 1.55 free Wing Away a Splendid \$5,000.0 Dan Patch stallion if you will write me and

MAIL ME THE FREE COUPON PRINTED BELOW. Address, E. B. SAVAGE, International Stock Food Co., Toronto, Canada

A \$5,000 Ta Dan Patch Stallion FREE.

AN ABSOLUTELY FREE HAIR COUNTING CONTEST WITHOUT MONEY OR PURCHASE CONSIDERATION And Open To Any Farmer, Stockman Or Poulity Breedor. Cas a Count the number of hairs drawn in a picture of "Forest Patch," sired by Dicture of "Forest Patch," sired by Dicture of "Forest Patch," sired by Dicture Of Monaco by Reimont, Write For One of Abovy Dan Patch Pitch, Dan by Monaco by Reimont, while Fore of the Monaco by Reimont, and the County of the County of

E7 You may secure this \$5,000.00 Dan Patch Stallion Absolutely Free, "Forest Patch" might make you a fortune of \$25,000 to \$50,000 as a great stock horse for any community because he will make a 1,200 lb. Stallion with Great Style and Seautiful Conformation.

MUST	MAIL	INIS I	REE C	DUPON	TO-DAY	TO
E. B. SAVAGE International Stock Food Co.	N TO	7	E	. B.	SAVA	GE
TORONTO Will you please mail me POSTAGE PAID one of the BEAUTIFUL SIX	OUT OF	BLANK L	T	ORONTO	, GAN	IDA
International Stock Food Co. TORONTO TORONTO Fill pour please meals me PUSTADE FOOD TORONTO Fill pour please meals me PUSTADE Fill pour please meals me PUSTADE Fill pour please meals food to the BEAUTIFUL SIX FOOD of THE BEAUT	described in of GIV LLION.	ING I have	och IN 7	HIS PARK	COUL	45
I oron		Horses,	8	hoop	,ON	4
Postoffles	•••••	Pr	ovince			-

	- A A A I Ami	And a
WONDERFUL WORLD	FAMOUS MILES	BYDAN
1 Mile In	THE STATE OF THE PERSON	DI DAN.
	30 Miles averaging	

	30 Miles averaging 11574 45 Miles averaging 1158 47 Miles averaging 1158 47 Miles averaging 1159 48 Unpaced Record 1158 420 Miles averaging 2023 420 Miles averaging 2023 420 Alles averaging 1157 420 Alles averaging 1158 4
tremendous crowds drawn by Dan Pat	

DAN HAS BROKEN WORLD RECORDS 14 TIMES

The marvellous Dan Patch was faster than ever in 1908, although 12 years of age. His first fast mile in 1908 was in 2.00—his second in 1.584 his third in 1156 4—bis flith in 1156 4—Unequalled Other Years.

DAN HAS BROKEN WORLD RECORDS 14 TIMES.

The marvellous Dan Patch was faster than ever in 1908, although 12 years of age. His first fast mile in 1908 was in 2.0—his courch in 1,854—his fourth in 1159—his fourth in 11574—his fifth in 11564—Hequalled Other Years.

ACCIDENT ONLY PREVENTED 1.54 ON OCT. 11, 1908.

On Oct. 11, 1908, at Lexington, Ky., Dan Patch paced the greatest mile of his life and Only an Accident Prevented his having a record of 114 his paced the first quarter in 29 seconds—the second quarter in 27/4 seconds, his paced the first quarter in 29 seconds—the second quarter in 27/4 seconds, his paced the first quarter in 29 seconds—the second quarter in 27/4 seconds, his paced the first quarter in 29 seconds and was at the three quarters in 1153/4 and was finishing strong at 11 and salected upon the half in 50/5 seconds, a 1.53, clip—the third quarter in 29 seconds and was at the three quarters in 1153/4 and was finishing strong at 11 and salected upon the second of the se



\$5000. DAN PATCH STALLION

NY building good enough to be roofed right is too good by far to be roofed with wooden shingles. No building worth carrying fire insurance on deserves any roof less good than "Oshawa" Galvanized Steel Shingles. Simply because-

"Oshawa" Shingles, of 28-gauge semihardened sheet steel, make the only roof that absolutely and actually will be a good roof for a hundred years. If any "Oshawa"shingled roof shows the least sign of leaking in twenty-five years, this company will replace

that roof with a new roof, free. That's the kind of a written guarantee you get when you buy "Oshawa" Shingles-and there's \$250,000 back of the guarantee.

Thousands of "Oshawa "-shingled roofs cover farm buildings, residences, public edifices, churches, all over Canada. They make a roof

handsome enough for any building whatever-and it is the most practical of roofs-for the simple reason that an "Oshawa "-shingled roof can NOT leak.

It can't leak because, to start with, it is made of extra-heavy. extra-tough steel, special galvanized. The galvanizing makes these shingles wholly proof against rust-and rust is the only enemy steel has when it's used for roofing. That Pedlar



shingled roof. Long years of weather - wear won't show on these shingles. That one item of paint saved-of the need for painting entirely done away with-saves you the cost of an

"Oshawa"-shingled roof in the first few years it's on any of your buildings. And just remember-it will be a good roof for a hundred Such a roof is not only rain-proof, snowproof, and fire-proof, but it is wind-proof. It

makes any building it covers warmer in winter and cooler in summer-because-

The Pedlar four-way-lock-every shingle locked to adjoining shingles underneath, on all four sides-makes an "Oshawa"-shingled roof



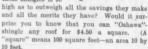
practically one solid sheet of steel, without a crevice or a crack.

but only "Oshawa" Shingles are sure to last a hundred years and are good for a century.

Another thing about these shingles:-They make a building lightning-proof-insulate it far better than any lightning-rod system ever could. Last year lightning destroyed over half a million dollars' worth of farm property. Not a cent of that loss could have happened if the buildings that were struck had been roofed

right, which means roofed with "Oshawa" Galvanized Steel Shingles.

Maybe you think the first cost of these shingles is so



SHINGLES

A new roof for nothing if they leak by 1934

That keeps out the slightest suspicion of moisture-it keeps out the winter winds and keeps in the warmth-and in summer it wards off the sun's rays-won't let them get through.

And "Oshawa"-shingled roofs are fire-proof as a matter of course. How could you set fire to a roof of solid sheet steel? The fireinsurance people will make lower rates on a building protected by "Oshawa" Galvanized Steel Shingles. That saving alone will pay for the roof within ten years.

Some think a corrugated iron roof is fireproof and about as good as an "Oshawa"shingled roof. That isn't so. We make corrugated iron roofing-and it's all right, for its kind. Nobody makes any better. But corrugated iron isn't the roof for a farm buildingnor for any building that is meant to stand a long while. It is a good enough roof for structures that are meant to last only a few years-

Just about the price of A1 cedar or cypress shingles-and they'll be rotted to dust before even the first ten years of the Pedlar guarantee have passed. An "Oshawa"-shingled roof will outlast ten wood-shingled roofs -and be a better roof every minute of the time, in every way a roof ought to be good.

Anybody can put on these shingles-a hammer and a tinner's shears are all the tools necessary. It is impossible to

get them on wrong-you'll see why when you send for a sample shingle and a beok about

"Roofing Right." Suppose you send for the book and the sample to-day-now. It will pay you to get at the real facts about the right roof.



Pedlar products include every kind of sheet metal building materials-too many items to even mention here. You can have a catalog -estimate-prices-advice-just for the asking. We'd like especially to interest you in our Art Steel Ceilings and Side Walls-they are a revelation to many people. More than 2,000 designs. May we send you booklet and rictures of some of them?

ST, JOHN, 'N. B.

THE PEDLAR PEOPLE of Oshawa

ADDRESS OUR NEAREST WAREHOUSE :

MONTREAL 321-3 Craig St. W. OTTAWA

TORONTO 11 Colhorne St.

LONDON 86 King St. WE WANT AGENTS IN SOME SECTIONS.

CHATHAM

WINNIPEG 200 King W. 76 Lombard St. WRITE FOR DETAILS.

OUEBEC 7-11 Notre Dame Sq.

MENTION THIS PAPER.

HALIFAX 16 Prince St