



NUMBER 40

RURATEOME

PETERBORO, ONT.

DECEMBER 9.



THE HILLS AS PICTURED ARE NOT SNOW-CLAD: THE WHITE AREAS ARE DRIFTING SANDS A characteristic scene in June on the Old Pine and Oak Ridge in Durham County, Ont. The area in this county A characteristic scene in some on the Old Pine and Oak Ridge in Durnam County, Ont. The area in this county and Northumberland that it is proposed to reforest, comprises hundreds of acres of just such land as this. Note the pile of cordwood, the material in which is too small to have much value, and which has been ruthlessly cut from this area, so badly in need of trees. Note, also, that trees are still growing even on these now desolate wastes. A convention is being held in Cobourg this week to formulate ways and means

of reforesting these areas. -Photo by the Editor of Farm and Dairy.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

# THIS IS WHAT DOES IT

The illustration shown is a sectional view of the important device which controls the free and easy running of the "Simplex" Self-Balancing Bowl. It is the



### SELF-CENTERING BEARING

It is situated immediately underneath the bowl. The weight is carried on this bearing instead of on the lower end of the spindle. This in itself enables the bowl to run much more steadily and evenly than were the bowl supported on the lower end of the spindle, as is the case in other separators. It represents the same difference as you find in spinning two tops, one with a long peg and one with a short peg. The short peg top spins easiest and longest.

This bearing also allows the bowl a free, unrestrained motion, letting it spin on its own axis. The bowl will not wobble when coming up to speed or when running down, or even if it should be slightly out of mechanical balance. The ball bearings run between two hardened steel rings which are interchangeable and so cannot get out of place. The whole thing is so simple that anyone can take it apart to clean it and have no trouble iu putting it together again. It is impossible to put the parts in wrongly.

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WE WANT AGENTS IN EVERY DISTRICT

#### Value of Second Growth Timber

Value of Second Growth Timber

The question of reforestation is a very live one at present in the united counties of Northumberland and Durham. A small lot of second-growth pine in Northumberland and Durham. A small lot of second-growth pine in Northumberland to the second second pine of the second second pine of the second pine of the sold \$500 worth, and has trees standing which will bring an equal amount. This second-growth timber was produced upon land that is not specially adapted to grain-growing. A resident in the vicinity of Erighton has a fine lot of second-growth timber, upon ground which Il years ago was a fine lot of second-growth timber, upon ground which the to four inches in diameter. One cash has a diameter of seven inches. Another farm has a fine wood lot of mixed trees upon ground which had a crop of wheat not long ago.

Practical results such as these are the things which appeal most strong-ly to farmers and Isad-owners, and all the waste lands were sent frees in seven as the proposed of the Pro-

would mean an immense increase in revenue to the farmers of the Pro-

#### Distribution of Seed

By instruction of the Hon. Minister of Agriculture distribution is being made this season of samples of superior sorts of grain and potatoes to Canadian farmers for the improve-ment of seed. The stock for distribument of seed. The score for distribution has been secured mainly from the Experimental Farm at Indian Head, Sask., Brandon, Man., and Ottawa, Ont. The samples consist of oats, spring wheat, barley, peas, Indian spring wheat, barley, peas, spring wheat, barrey, peas, Indian corn (for ensilage only), and pota-toes. The quantity of oats sent is 4 lbs. and of wheat or Larley 5 lbs., sufficient in each case to sow one twentieth of an acre. The samples of Indian corn, peas and potatoes weigh 3 lbs. each. A quantity of each of the following varieties has oeen secured for this distribution:
Oats:—Banner, Abundance, Danish (sland, Wide-Awake, White Giant, Island, Wide-Awake, White Giant Thousand Dollar, Improved Iigowoall white varieties.

Wheat:-Red varieties: Red Fife, (beardless); Marquis, Stanley Chelsea (early beardless); Pr Huron and Pringle's Unamplain (early bearded). White varieties: White Fife (beardless); Bobs (early beard-

Barley:—Six rowed: Mensury, Od-essa, and Mansfield. Two-rowed: In-vincible, Standwell and Canadian

Field Peas:-Arthu and Golden Vine.

Vine.
Indian Corn (for ensilage).—Early sorts: Angel of Midnight, Compton's Early and Longfellow. Later varieties: Selected Lemming, Early Mastodon and White Cap Yellow Dent. Potatoes:—Early varieties: Rech-Potatoes:—Early varieties: Rech-Potatoes:—Early

ester Rose, and Irish Cobbler. dium to late varieties: Gold Coin, Carman No. 1, and Money Maker. The later varieties are, as a rule, more productive than the earlier kinds

Only one sample can be sent to each applicant, hence if an individual receives a sample of oats he cannot also receive one of wheat, barley, peas, Indian corn or potatoes. Applica-tions on printed cards or sheets, or lists of names from one individual, or applications for more than one sample for one household, cannot be

sample for one household, cannot be entertained. The samples will be sent free of charge through the mail. Applications should be addressed to the Director of Experimental Farms, Ottawa, and may be sent in any time from the lat of December to the 15th of February, after which the lists will be closed, so that the samples asked for may be sent out in good time for sowing. Applicants should mention the variety they pre-

fer, with a second sort as an alter-native. Applications will be filled in the order in which they are received, so long as the supply of seed lasts. Farmers are advised to apply early Farmers are advised to apply early to axoid possible disappointment. Those applying for Indian corn or potatoes should bear in mind that the corn is not usually distributed until April, and that potatoes cannot be mailed until danger from frost in transit is over. No postage is required on mail matter addressed to the Central Experimental Farm, Ottawa.

## The Chicago International

The tenth International Live Stock Exposition was again held in Dexter Park Amphitheatre, Chicago, during the first week of December. This year weather was unusually fine which the weather was unusually fine which sided in making the Expositi no "Greatest Ever!" One of the greatest features of the Show this year, according to eminent stockmen is the great increase in steer showing. It is conceded to be Letter in quality and quantly than ever shown at any previous International. It is uncreating to International it is uncreating to the control of the co

HORSES

This year the classes or Percherons

Helgians contained many more
entries than last, Shires remaining
about the same. The Clydesdales
made a far better showing this
year than ever before. Last a far better
than ever before.
quarantine regulations
severe for horses,
are this year. As a
are Rros., of Clare vear thar more they are this year. As a result Graham Bros., of Claremont, Ont., maintained their former repu-tation by carrying off a great many of the most valuable wins. The Canof the most valuable wins. The Canadian exhibitors in hors were: Graham Bros, Claremont, Ont., and John Graham of Carberry, Man. Mr. Graham of Carberry won thrd and fourth in the 2-vear-olds.

"Gartly Pride (1297), formerly owned by Graham Bros., but now by Robt. A Fairbairn, Willow, any age, of the as This horse won first iverety can be considered by the control of the control

## Meeeeeeeeeeeeeeeee The Taxation Question

#### Assesment on Idle Land

Ed. Farm and Dairy,—The following from a Portland, Oregon, paper the Labor Press, might equally well be a note of warning to Ontario, for our gravest concern should be to raise the percentage of the rural and farm

the percentage of the suppopulation.

"Public sentiment in Oregon without any change in the laws can compel assessors and boards of equalization to assess idle lunds three times what they are now figured at on the assessment rolls. This will reduce their price and bring the suppopulation of the suppopu in turn will make demands of laborand labor's products. Timber landing for \$6,000 a quarter sacrossed for \$5 and under sacrossed for \$5 and the idle landholder. So the sacrossed for \$5 and the idle landholder. The proposed amendment to the Assessment Act granting municipalities the right to raise the rate on land values and lower it on improvements would be a perfect method of accomplishing this very desirable result. Over 225 municipalities have already signed it, including all the large cities save one in the province.

large cities save one in the province

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But, it is possible to g legumes or lands. On week I saw stubble whi been seeded with clover a sign of ele seen excer the hills. reason for t evident. Scr covering of manure coul nicely. I kr crop of cow

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Only \$1.00

Vol. XXVIII.

FOR WEEK ENDING DECEMBER 9, 1909.

No. 49.

## SOME ASPECTS OF AGRICULTURE IN NORFOLK COUNTY, ONT.

P. E. Angle, B.S.A., Agricultural Representative, Simcoe

## What Cooperation Has Done for the Farmers and Fruit Growers of the County. Much of the So-called Useless Lands Known to Exist in Norfolk can be Utilized at a Profit.

THE county of Norfolk in common with all other counties has its own peculiar problems to grapple with. Mr. E. J. Zavitz in his reports on Co-operative Forestry has told of the sand lands of the county which have been robbed of their forests of giant pines and which are now said to be so poor that you cannot raise your voice on them. Part of these lands are only suitable for reforesting, but a certain proportion of them, which are commonly considered to be worthless for farming purpose; and are being aban-

doned, are simply the result of a system of farming that is nothing less than robbery, and which is foolhardy in the extreme because of the fact that the robber robs himself.

In the great majority of cases on these lands, rye is grown year after year in many cases the owners have given up trying to seed the land grass because they say they cannot get a cascu. Of course they cannot get a catch when they Lurn their rye straw each year as soon as the threshing machine leaves the farm, and sell the rye at first opportunity; and this is done in very many

But, it is not impossible to grow the legumes on these Only last lands. week I saw a wheat stubble which had been seeded down with clover but not a sign of clover was seen except on the hills. The reason for this was

evident. Scattered over these knolls was a fair covering of manure and wherever a particle of manure could be seen the clover was growing nicely. I know of two farms where a splendid crop of cow peas was grown and plowed under this year on these light sandy lands. I know of different orchards which have been planted within the last two years on land that was considered to be blow sand, and they were growing nicely

last summer. Therefore, it would appear that many of these farms may, by judicious cropping, be brought to a fair state of fertility and made to yield profitable returns in certain tranches of agriculture.

IDEAL FOR POULTRY

Professor Graham tells me that the soil and climate of this section is almost ideal for poultry culture. Surely with cheap land and present high prices for poultry produce available, this should be a profitable branch of agriculture. Of course

these farmers there is being successfully developed a system of co-operation that has thoroughly convinced me during the half year I have spent in the county, that the salvation of the farmer lies in co-operation. Although the subject is becoming almost hackneyed I feel its importance warrants my mentioning briefly some of the things which it has done for the farmers of the county and for the county as a whole.

THE APPLE CROP AND CO-OPERATION

Six years ago the apple crop of the county was meagre in quantity and poor in quality. Although an occasional orchard was producing a small amount of fruit of fair quality and yielding perhaps a small profit, under moderate treatment, the average orchard was a dead asset to its owner. To such an extent was this true that many men were cutting their apple trees for firewood. Not

only was this true but slowly and steadily the farms of the county were being abandoned. All branches of agriculture were backward.

GROWE S (RGANIZE) In the winter of 1906 the Norfolk Fruit Growers Cooperative Association was organized with a membership of 17. The members began to co-operate to produce better fruit. Their old, unsprayed, unpruned, uncultivated. unmanured unprofitable orchards began to be sprayed, pruned, cultivated, manured and to become profitable. The membership increased to 52 in 1907, to 152 in 1908 and to 188 in 1909, and the quantity of apples in the county suitable for barrelling has been doubled in the same time. Then by co-operating to put up a uniform pack of fruit and by dint of diligent advertising, chiefly by putting



General View of Ontario Horticultural Exhibition in Toronto Last Month, showing Norfolk County Exhibit at Right.

No county in Ontario has come to the fore as a fruit growing district so rapidly as has Norfolk Four years are, Norfolk fruits were scarcely known; to-day, they have a Dominion-wide reputation and are well-known in Great Britain. This change is due chiefly to advertising. Norfolk Fruit Growers' Association, of which Mr. James E. Johnson, Simcoe, is manager, believes in letting people know that Norfolk fruit is good fruit, and that the association backs every package with its name and reputation. All over the exhibition, illustrated above, the word, "Norfolk" was prominent.

it will require a considerable amount of care and expense and time in order to obtain results, but with land at \$5 to \$10 an acre it surely is a practicable proposition.

The land in the county of Norfolk is not all like this and the farmers are not all farming in the way mentioned above. There is land in the vicinity of Simcoe worth \$150 an acre and men farming it who are experts in their business. Among

their fruit before the public, the price received for apples has been likewise doubled. CASH RETURNS FOR APPLES

As a result the 188 members of this Association will receive about \$60,000 for their apples this year. Orchards will net their owners from \$2.50 to \$6.50 a tree. I know of one orchard of one and one-half acres which will net \$440.00, and another of five and one-half acres which will net

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\$1,000. Orchards are not being cut down now but thousands of trees are being planted each year.

Less farms are being abandoned. The value of farm property has increased enormously, and outside capital is being quite freely invested in the farms of the county.

IMPETUS GIVEN TO OTHER LINES

But of far greater importance than all these is the impetus that this co-operation has given to other lines of agriculture and the effect it has had in extending co-operation among the farmers. The members of this Association and their neigh-

of a vile odour. This disease is more likely to occur in heavy horses, especially where the feet are large and weak.

#### TREATMENT

A novice should never attempt the treatment of a pronounced case of canker. It is the work of a professional man and even in such hands is often most difficult to manage. It is almost always necessary to cut away the whole sole of the foot and as the result of such an operation necessitates a protracted period of nursing as well as of professional attendance it will be found that in many cases the value of the animal would



Two Prize Winning Ayrshire Cows at the Alaska-Yukon-Pacific Exposition

'Heatherflower 1st of Bircheskie' and "Burnside Nellie Burns 4th," 1st in their respective classes, and grand champion and Reserve Senior Champion. "Willermoor Farm" is the owner of the former, and Mr. R. R. Ness, Howick, Que., of the latter. Judge W. F. Stephen stands between them.

bors outside have seen what can be accomplished by scientific methods and intelligent co-operation in orcharding (which by the way forms only a small part of the agriculture of the county, since only 10,201 acres of the 271,394 acres of cleared land in the county is devoted to orchard purposes) and they are teginning to awake to the need of a careful study of and the almost unlimited possibilities in any branch of agriculture in which they may engage.

It is not unusual to hear a Norfolk farmer say, "I have only been dabbling at farming till just lately. I am just beginning to farm and I want to learn as much from the other fellow as I can."

Last spring a farmer's club was organized at Simcoe with a membership of 100. They are just now resuming activity for the coming winter and in their outline of work is the perfection of a plan of co-operation in growing and selling potatoes. Thus the good work spreads!

ESSENTIALS FOR SUCCESS OF CO-OPERATION

Now I would not have you think that the way of the co-operator in Norfolk has been nothing but pleasantness and that co-operation there is perfect. The association referred to has had its drawbacks, chief of which have been the result of the old, old story of petty jealousies among members and a lack of faith in one another. These things are being gradually overcome however, and as each difficulty is surmounted it reveals once again the fact that for successful cooperation, a high sense of individul responsibilty among the co-operators and competent management of the busness are the prime esentials for SUCCESS.

## Diseases of the Horse's Foot-Canker

Dr. H. G. Reed, V.S., Halton Co., Ont. Canker is a diseased condition of the foot, much more serious than thrush and although it, like thrush, usually begins in the frog, it soon extends and involves the whole of the sole and sometimes even other parts of the foot.

#### SYMPTOMS

The frog becomes large and spongy and covered with matter of a cheesy appearance and of exceedingly offensive smell. Sometimes the discharge is watery but very abundant and always

not warrant the expense incurred and it would prove more profitable to destroy the patient than to treat him.

#### Attention to Horses Teeth\*

A veterinarian is needed to make a skilful veterinary dentist; it requires a man who thoroughly understands the anatomy of the mouth, and has the necessary instruments and skill to correct whatever is wrong. Few farmers have either and the so-called "veterinary dentist" who is not a veterinarian is usually an unscrupulous person who neither understands the proper arrangement and conditions of the teeth nor the proper manner of correcting faults, a man who lives by deceiving the horse owner. Hence, we think that it is better for the owner to get a qualified man to attend to his horses' mouths. There are few horses that have reached the age of six years or over (and often those of younger age) that would not be better if their teeth were dressed once every year. The reputable veterinarian does not tell all his patrons this and look in the horse's mouth and say that his teeth require attention. This looks too much like looking for a job, and horse owners are very apt to take it that way; and the veterinarian who has much respect, either for himself or his profession, is above it. He rightly thinks that if his services are worth having, they are worth asking for. All the same, the average horse will thrive better on the same food if his teeth are regularly dressed. There are many cases in which attention is not required, and the professional man who, for the sake of the fee, will dress a mouth that does not require it, is, we trust, rarely found.

WHEN THE FIRST TROUBLE APPEARS

The first trouble likely to result from the teeth appears in many cases between the ages of two and four years. At from two years and three months to three years of age, the first and second molar teeth in each row (which are temporary teeth) are shed and replaced by permanent ones. At from three years and three months to four years, the third molar in each row (also a temporary one) is shed and replaced by a permanent one, and the sixth molar in each row ap-

"In order that Farm and Dairy readers may be warned against the so-called "Veterinary Dentist," and receive i structions as to the requirements of borses' teeth, this excellent article is reproduced from Rider and Driver.

pears. It is not at all uncommon to observe a colt between two and a half and three or between three and a half and four years old to become unthrifty and have apparent difficulty in masticating. He does not appear sick, but becomes dull and listless and does not eat well. During the growth of the permanent melars, which are to occupy the space previously occupied by the temporary ones, the fangs or the roots of the latter gradually disappear by the absorption as the new teeth grow. In normal cases by the time the new tooth has reached the level of the gums the fangs of the temporary ones have become so absorbed that the crown drops off, but in many cases, on account of incomplete absorption this does not occur and the new tooth, continuing to grow, forces the temporary one above the level of its fellows, and, as a consequence, mastication becomes very difficult or practically impossible, and unless the animal be fed on food that requires little mastication he will fail in flesh and energy. When unthriftiness, without apparent cause, is noticed in comes or these ages, the molar should be carefully examined, and if any of the crowns are not shed, they should be removed with a forceps.

THE TROUBLE IN OLDER HORSES

In older horses, the trouble is usually the presence of sharp points on the outer edges of the upper molars, and the narrow edge of the lower ones. The lower jaw of the horse is narrower than the upper jaw, hence the rows of molars are closer together, and as the motion during mastication is lateral it can readily be seen that the molars in the upper jaw will be worn without inwards and upwards, leaving the outside of the teeth longer, and the lower molars will be worn from within outwards and downwards, leaving the inner side of the teeth longer. The teeth are irregular in outline in each side; thence, on account of the manner in which they are worn, and the degree of inconvenience or inability to masticate properly will depend upon the size and direction of these points, but in most cases, they interfere to some extent. Treatment, of course consists in removing with a rasp these points. In the performance of this operation, a mouth speculum to keep the mouth open and rasps of different shape; are required and care must be observed to not remove too much tooth. Special care should be observed to not rasp the bearing surfaces of the teeth. These surfaces are normally rough or serrated in order to grind the food, and if made smooth by the rasp, the horse will be in a worse condition than before.

In other cases, from various causes, one or more of the molars become longer than their fellows, the opposing tooth being abnormally soft and wearing more quickly or their roots decaying, and allowing the tooth to be forced further into the socket; the long tooth or teeth after a while attain such length that they come in contact with the opposite gums and render mastication impossible. In such cases the long teeth must be shorn and rasped down to a level with their fellows. A horse whose molars are in this condition, will, of course, never again have a good mouth, tut after the teeth are shorn he will be able to masticate fairly well.

REMOVE DECAYED TEETH

Decaying teeth are not uncommon in horses. This condition is usually indicated by a fetid discharge from the nostril or a fetid breath. In some cases difficulty is experienced in locating the diseased tooth, but when the disease has advanced to that stage in which it can be located it must be extracted.

Wolf teeth (those small, supernumerary teeth which appear in front of the first molars in the upper rows) are generally supposed to have an injurious effect upon the eyes. This is a mistaken idea. They seldom do any harm unless they are large and in such a position that they interfere with mastication; but being supernumerary and having no function they should be extracted. The off shot with a attenti a dollar a good harm th

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Some placed hives or and poo with the elbow. cook ste prospect shelves the floo don't to floor ab

One b our loca stocks 1 inch abe are two the cons them up especiall or after

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somewhat corumon habit of knocking the crowns off should not be followed. They should be drawn with a pair of forceps. We repeat that sufficient attention is not given to hors's' testh, and that a dollar spent for having them dressed is usually a good investment, while a bungling job does more harm than good.

Packing Bees in Winter Quarters R. F. Whiteside, Victoria Co., Ont.

Sometime during November bees should be placed in the cellar or provided with double hives outside. If your cellar is under the parlor and poorly ventilated or cold and mouldy, a small store may be used allowing the pipe to connect with the parlor store pipe by means of a "T" and show. If the cellar is below the winter kitchen cook stove and is well ventilated and dark, the prospect is better. The hives can be placed on shelves not less than three or four feet above the floor, the higher the better as long as they don't touch the joist and feel the jar from the floor above.

One bee keeper, Mr. A. Noble, the secretary of our local organization, lost as he thought many stocks by raising the hives in front about an inch above the bottom board. However, if there are two or three warm quilts on top of the hives, the consensus of opinion seems in favor of raising them up. All agree in having the cellar dark, especially during a long warm spell in winter or after the first of March.

OUTSIDE WINTERING

As to outdoor wintering with chaff or leaves for packing, except the clamps be absolutely mouse proof, bad results may follow, but if very dry sawdust is used, the mice do less damage. One inch of sawdust is as good a non-conductor as four or five of chaff or leaves. Two inches of dry sawdust in front and under the hive and three inches of the same material at the sides, back and top are ample. Where two or four or six or eight hives are placed in one clamp, an economy of heat, lumber and packing is secured, but this brings them to face both south, east, west and north, a serious consideration with some. If the clamps are mouse proof, large loose cushions about half full of sawdust are handier for the top covering than simply the loose dust poured over the hives. Bees usually winter fairly well when thus protected, if the clamps are not entirely covered with drifting snow. If it drifts over the top of them strong colonies are liable to get too hot and sometimes even the combs melt down. Those outside clamps should be placed on four stones six or eight inches thick and left either level or tipping a little forward (if the combs run lengthwise as in the Langstroth hive).

If the hives have no sawdust below them, close fitting banking boards should be used to prevent cold winds from circulating beneath the clamps. Long narrow clamps with fly holes all south or east prove clumsy and are usually soon discarded. A four-holed mouse trap for every eight or 10 hives should be provided for mice are almost sure to find their way into some of the clamps.

All fly holes should be at least five square inches, either one half inch by 10 or one inch by five. Some provision is needed for contracting these in winter. One way is to use a piece of tin an inch longer and one inch deeper than the fly hole and have this nailed at one end so that the other can be raised as needed. This tin should have a fly hole in the centre of it one inch deep and three-eighths wide.

Many evidences of great value of systematic selection of seeds on the farms of Canada are recorded in the office of the Secretary of the C.S.G.A. at Ottawa while the Annual Reports which are distributed also contain much information as to what is being accomplished and of the possibilities for future work.—L. H. Newman, Secretary Canadian Seed Growers' Association.

## Some Remarks on Corn for Silage

Henry Glendinning, Victoria Co., Ont.

Silos have never been so muca taiked about before as is common this fall. Those who have been opposed to silos and have been for years, now say, "Well, I guess we will have to come to a silo after all." Where winter dzirying is practised, we must provide winter feed. The silo furnishes the cheapest means of furnishing a large part at least of a winter ration.

Corn is the one crop that is enailed in this part of the country. I have had me opportunity of seeing the most of Ontario during this past summer. There is one mistake that the farmers, especially in Peterboro County, make in growing corn; that is in planting it too closely. They get lots of fodder, but it is not a good kind of fodder.

Corn should not grow thickly. It is not a fine stalk that is required, but rather a big, stiff stalk with two big cars each as big as one's arm. Such is the kind of corn that when ensileed and fed to cows will make them give milk. The rows should be 42 inches apart instead of 36 as commonly planted. The stalks should be about one-third less in thickness than commonly planted and then it would produce much better fodder. True, there are some ears on it as it is produced, but these are only nubbins. The cob on the ear is the most valuable part of the corn. It is the part that we want. We can get ears by growing the corn thinner. Corn is often grown in hills

36 inches square. This is all right provided there be not too many stalks in a hill. Six or seven stalks to the yard is about the proper thickness.

While some argue, and their contention is well founded, that it is better to plant in squares, we now plant ours entirely in drills. We never use a hoe on it and we get as clean corn as ever we did. We grow it 42 inches apart in drills planted with the disc seed drill. We harrow before and after it comes up. Part of this harrowing is done with a "Breed's" weeder which is very effective in killing small weeds. Cultivating, after this harrowing, is done with a two horse cultivator. After the third cultivation we put the mould boards; these force the soil up over the small weeds in the

row but do not damage the corn. The oftener one cultivates the better will be the crop of corn.

Corn gives us a succulent food for feeding cows in winter. We have had our cows stabled now for three months. They are being fed corn silage and alfalfa hay and they are giving most excellent results.

The doctors of Toronto say that there is a market in Toronto for certified milk at 10 cents a quart and that they would like 20,000 quarts a day to start with.—W. F. McLean, M.P., York Co.

Farm and Dairy deserves the support of every Canadian farmer. Its staff is to be congratulated upon the excellent matter and valuable information that Farm and Dairy brings with each issue.

—J. R. Hutchison, Thunder Bay District, Ont.

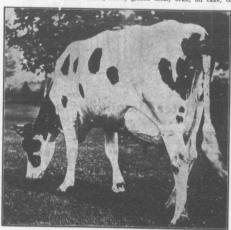
Winter Feeding of Dairy Cows

J. H. Grisdale, Agriculturist, C.E.F., Ottawa

By winter feeding of dairy cows one means, of course, the feeding of cows producing milk. In feeding cows to milk, the primary object is to get the cows to produce as much milk at as low a cost as possible. To secure such results, cows must be fed as much as their digestive powers will permit. The milch cow eating all that she can handle of the right kind of food is sure to be producing milk at a profit.

Certain foods are more particularly advisable on account of their wholesomeness or easy digestibility. As among the best might be mentioned clover, roots, bran and oil cake meal. Good entire to surpass. Roots of almost any kind stand unequalled. Animals receiving a fair amount of any of the above are practically sure to be making good use of their food and to be in a condition to consume large quantities thereof. The man who has learned that plenty of food must be eaten to produce much milk and who knows how to make his cows eat food in large quantities has come very near to solving the difficulty.

The fitness of the feed for milk production is an important thing. Milk contains a large percentage of protein or flesh forming material. The food destined for milk production should be rich in that element. Certain foods such as clover, alfalfa, roots, gluten meal, bran, oil cake, cot-



A Cow that is Milking 50 lbs. a Day at Six Months Since Calving

Daisy Pietertje Johanna 6190, a four-year-old Holstein, calved May 19, 1909, made 19.88 lbs. of butter in seven days. She has given 10,000 lbs. milk, of an average test of 1.54 per cent fat, in just six months since calving. She is owned by D. C. Flatt & Son, Millgrove, Ont.

ton seed meal, are rich in this constituent and these feeds should enter as largely as possible into the composition of the ration for the dairy cow.

The dairy cow should be persuaded to eat all she can. To this end succulence is probably the cheapest and most satisfactory aid; and if to such a succulent ration the additional good quality of easy digestibility and richness in protein be added, then the dairyman's problem is solved.

Concentrates for the dairy cow consist of bran, ground oats, barley and oil cake. All of these may be mixed or separate though it is preferable to feed them in mixture and to every four or five pounds of milk produced. The grain ration should be increased with any cow as long as she is increasing in her milk flow.—N. J. Kuneman, M.-A.C.. Winnipeg.

#### The Chicago International

(Continued from page 2)

(Continued from page 2)

(Montinued Irom page 2)

(I mipion stallion at the last Royal

Highland Show and also at Madison

Square Garden, New York, a few
weeks ago. In aged stallions Graham

Bros., also won second with Royal

Choice and fifth with "Borland Chief"

with "Coniston" they won second in 3
year-olds while "Abbey Gale" won

third in 2-vear-olds. In yearing stal
lions first and second was also award
ed Graham Bros., with "Penrith

Maid." Graham Bros., won first in

yearling mares. Many of the special prizes donated by the Clydesdale As-sociation were also won by Graham Bros.

Entries in Shorthorns, Herefords, Aberdeen Angus and Red-polled and Grade cattle outnumbered those of last year by far. The Grand Champion steer of the show was "King Ellsworth." a pure-bred Angus steer He was bred by Lyman Mitchell at Danvers, Ill., and 's now owned by Kansas Agricultural College. King Ellsworth is a 2-year-old and as a

In carload lots the Grand Cham-pionship went to yearling Shorthorns. The Champion Shorthorn Bull was a roan two-year-old weighing 1,760

lbs.
Catadian exhibitors were James Bowman of Guelph, Ont., in Angus cattle and A. A. Barber of Guelph, Ont., in Shorthorns.
Mr. Bowman won 5th in fat class with a pure-bred Angus yearling and class. A. A. Barber was awarded 4th and 5th in yearling Shorthorns. SHEEP

Less stringent regulations re quarantine permitted the Canadian exhibit in abee to be exceptionally good, both as to quality and quantity. Canadian exhibitors were: D. and D. J. Campbell, Woodville, Ont.; Hamner and Hodgoon, Brantord, Ont.; Lloyd-Jones, Burford, Ont.; A. and W. Whitelaw of Guelph; J. Earkinson, Guelph; Geo. Allen of Paris, Ont.; and Sir Geo. Drummond of Beaconsfield, Oue. Que

Geo. Drummond of Beaconsheld, Que.

The warmest competition was in the Shropshire and Southdown classes. Breeding Shropshires, in Aged Ram American Shropshire association special, Lidyd-Jones won first and Campbell, third. For yearling ram, Idoyd-Jones warded to Campbell in American Shropshire Association for the same class. Ram lambs under one year old, Campbell won third, while in the special prize for Sr. yearling ewes, Campbell won third, while in the special prize for Sr. yearling ewes, Campbell won third, while for ewe lambs under one year, special prize, Gampbell won third, while for ewe lambs under one year, special prize, Campbell won 2nd and 5th. For flocks, Lloyd-Jones won three thirds. Campbell won 1st in one flock class, and same place in special prize of same class.

same class.

In Suffolks Mr. Bowman of Guelph
was awarded all firsts and seconds in
various classes besides having champion Ram and Champion ewe of the

yearling last year won 2nd in his breed. John Rawling won first on a class. He is a steer of remarkable pen of four yearling Cotswold ewes, quality and smoothness and weighs Parkinson of Guelph, won several 1,750 lbs. He was sold at 18 cents per firsts besides several special prizes and hb. Judge Wm. Heap, of Manical State of Mational Lincoin Sheep lands.

hampion ewe. In Southdowns

Breeders Association Special for champion ewe.

In Southdowns Lloyd-Jones won thref for aged Ham third for Sr. yearling and third for Bock of four lambs. In Leiesters, Whitelaw Bros. won Awards for Champion Ram and champion ewe men to Whitelaw.

Canadian breeders made a very creditable showing in the sheep fat classes. Competition was exceptionally keen. Campbell of Woodville won 2nd on Sr. yearling wether and second for wether lamb. Campbell also won second on "pen of 5 wether lamb. In Oxfords, J. W. Lee of Simcewon second with Sr. wether, first and third with wether lamb and first for "pen of 5 wether lambs." In Cotswolds, Geo. Allen of Paris won second for Sr. wether; 1st and 2nd on wether lambs."

WHENE ST. WINDER ST. WINDE

SWINE

wether lambs."

"Quality was the outstanding feature of swine this year, parteularly among Berkshires. The classes were all well filled and competition very warm. T. A. Cox on Brantford was labeled to be considered by the constant of the

STOCK JUDGING TEAM

Exceptionally clever work was accomplished by the O.A.C. Stock Judgcomplished by the O.A.C. Stock Judg-ing team last week when second high-est standing in the judging competi-tion was awarded to Ontario. The Ontario boys obtained 160 points more than any previous second, being only a few points behind Iowa State-College team which won first. Prof. G. E. Day and Prof. Wade were the trainers. In general proficiency O.A.C. stood second in sheep and cat-tle, third in horses and swine. In

trainers. In general proficiency O.A.C. stood second in sheep and eattle; third in horses and swine. In individual standing, O. C. White, O.A.C., was second best man while W. R. Reck, O.A.C., stood ninh The Ontario Government would certainly be justified in donating more literal funds for succeeding teams, in order that a better acquantance may The Canadian judges at International were Prof. W. J. Rutherford, Winnipeg, Man., and Rolt. Miller, Stouffville, Ont.; Shropshire Sheep; Prof. G. E. Day, O.A.C., Guelph, Oxford Down; C. E. Wogd, Freeman, Ont.; Leicester; Herbert Lee, Highgate, Ont.; Shropshire Sheep; Leicester; Herbert Lee, Highgate, Ont.; Shropshire Sheep; Caremont, Ont.; burses (Clydes) in students contest.—R.B.C.

One hundred and eighty-six free mail delivery routes are in actual operation; 197 routes have asked for mail delivery; 3,328 boxes have been creeted and the totalled increased cost to the Postoffice Department is \$13,-

Very Satisfactory.—The pure bred pig which Farm and Dairy sent me from Mr. W. T. Elliott of Coleman, for securing a club of seven new sub-scribers, is very satisfactory. I am well pleased with it. I wish Farm and Dairy much success.—D. C. McGreg-or, Lambton Co., Ont.





Peterborough

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and every picture shows the Ring of all Horse Creation as palarly as if you stood on the track and actually saw Dan Patch 158 in one of his thrilling speed exhibitions for a full mile. 3600 mile was the same of the picture states every second all of the way around the onlier mile tracked on the track was the way from the picture states every second all of the way around the onlier mile tracked may not an early second all of the way around the onlier mile tracked may not an early second all of the way around the onlier mile tracked was the same of the same of the same state of the s

Ontario

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

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Reseas Skim I Would

we have colts? Wit, say, that mos that most horses for How m to give grain whyon adviceluding a New West Skim colts pro and alw

it sweet of any l Letter u except i the colt pound of is probab gain not com of age n 15 lbs. sk be wise ever to stities. F Less grai ting skir A good winter w hay, what oat straw

of one of Grisdale. Carrie While fill

mangels milk 10 1

attachment that the li the way w liked) were but were observed cobors' silos the blower, cob, althou than mine. nels of cor of the nutre corn lost the you prefer ment to the The mor ly will the

mentation in all prob of the en being strip the most p perfect dig the ensilar the rest of palatable, age-palata most desir qualities o is torn inte to be much silage. Co proaches in of the shr

Turnips I I wish to

the feeding Last season did not find in the butte have this fla did. We hav products and idea that ro-beneficial effect

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The Feeders' Corner The Feeders' Corner State St prompt attention.

## Skim Milk and Ration for Colts

Skim White and Ration for Cotts
Would it pay to feed skim mills of which
we have an abundance, to ordinary far no colts? Would a colt make better use of
it, say, than calves or pigs? I am told
for the say, than calves or pigs? I am told
however the say that the say of the say
How much skim milk would it be safe
to give them? Would it not need less
grain when feed on skim milk? Would
grain when feed on skim milk? Would
that the say of the say of the say of the say
we we say the say of the say of the say of the say
New Westminster Co. B. S.
New Westminster Co. B. S.
New Westminster Co. B. S.

Skin milk is an excellent feed for colts provided it is fed in moderation and always care being taken to have it sweet and free from contamination of any, kind.

A colt would not be likely to make letter use of it than calves and pigs except in this that it would likely be as effective.

except in this that it would likely be as effective in inducing gains in the colt as in a calf or a pig and a pound of increase in the colt's weight is probably worth more than a pound of gain in either calf or pig. It is not common to feed shim milk to colts. Colte three to six months of age might safely ta-\$\tilde{o}\$ from 10 to 15 lbs. skim milk per diem. It would be wise and probably necessary however to start with quite small quantities. Feed in three feeds per diem. Less grain would be necessary if getting skim milk.

Less grain would be necessary if getting skim milk.

A good ration for a colt the first winter would be as follows:—Clover hay, what it will eat; say 6 or 7 lbs.; oat straw; 2 or 3 lbs. bran; 1 lb. oats; mangels or carrots, 2 lbs; skim milk 10 lbs. This would be for a colt of one of the larger Lreeds.—J. H. Grisdale.

#### Carrier vs. Blower Ensilage

Carrier vs. Blower Ensilage
While filling my silos we used a blower
attachment on the cutter and I observed
that the kernels of the corn (which by
the way were softer than I would have
liked) were not only knocked off the cob,
but were either bruised or broken. I
observed corn that went into my neighobserved corn that went into my neighthe blower, was not ever knocked off the
coo, although the corn was even greener
than mine. In the smashing of the kernels of corn by the blower is there any
of the nutriment or feeding value of th;
you prefer the carrier or blower attachment to the cutter?—J. & D. Eigin, Ont.

The more finely cut the more clossly will the material pack, the less fementation will occur and the better, in all probability, will be the quality of the ensilage. The corn kernels being stripped from the cot and for the most part broken up means more the most part broken up means more perfect digestion of the grain part of the ensilage. The smashing of the cob and the mixing of the grain with the rest of the material means more palatable, hence more valuable, forage—palatability being one of the most desirable and most valuable qualities of a food. Shredded corn ensilage where every part of the plant is torn into small pieces is considered to be much better than cut corn ensilage. Corn cut by the blower ensilage.

The Feeders' Corner and autoritative—J. B. B. Summerside.

P. E. I
Turnips fed to cows are sure to
have more or less injurious effect upon the flavor and aroma of the milk
and butter produced. A small proportion of turnips mixed with other
feed may often be given without any
very objectionable effects Leing noted.
The amount likely to have no serious effect will depend upon the quality of the turnips the individuality
of the cows and the method of feeding.

of the cows and the method of feedoff, the Swedish turnip is much more
line.

The Swedish turnip is much more
liable to affect the flavor than the
white turnip. Some pays, for physiological reasons I suppose, for physiological reasons I suppose, for the
corporate considerably more than
turnip flavor into the milk than no
turnip flavor into the milk than no
turnip flavor into the milk than no
turnip flavor into the milk than
turnip flavor into the flavor
quantities immediately after milking
are not so likely to affect the flavor
of the milk or butter as if fed only
a short time previous to milking.
Hence it is often found possible to
feed turnips without injuring the
unall feeds a day immediately after
milking. Turnips are an excellent
trage for milk production and are
tra

## Balanced Ration for Cows

Would you be good encyls to give me a balanced ration for mitch cows, from the following product, via, corn meal, white niddlings, bran, cottonseed meal and not be to the control of the control of the oats which I have also mixed hay and oats which I intend to cut up with hay out-

which I lifend to cut up what any cut-ter.

Kindly give me what proportion to use, and quantity to feed to best advantage for milk as I am in milk business, and want to feed in such a way that it will pay. I forgot to mention unat I can get brewers' grains also.—A. D. B., North Bay, Ont.

I would suggest the tollowing as suitable ration for your cows in milk. The following amount for an average sized cow in 24 hours.

| Brewer's grains (wet) 20      | lbs. |
|-------------------------------|------|
| Corn meal                     | lha  |
| Bran                          | bs.  |
| Cottonseed meal               | lb.  |
| Oil cake meal 1               | lb.  |
| Pea and oat hay cut and mixed |      |
| in with brewer's grains 3     | bs.  |
| Mixed hay 12                  | bs.  |

Mixed hay ... 22 lbs.
Straw, what they will eat, say 6 lbs.
For cows in full heavy flow of milk
a somewhat larger amount of meal
would be necessary while less would
do for cows not giving very much
milk. The best plan would be to
mix 200 lbs. corn meal, 200 lbs. bran,
100 cottonseed meal and 100 lbs. oilwate meal then feed at the rate of
also mean the produced. The brawer's
grains if kept sweet are excellent
feed.—J.H.G.

#### Feed Silage After Milking

"A good roof adds materially to the value of your building especialy if it is fire and water-proof."—The Philosopher of Metal Town.

## 100 25 Years of Actual Use is the guarantee behind "Eastlake" Steel Shingles. We do not ask you to accept a paper guarantee, but simply point to the roofs that were covered with

## "EASTLAKE" METALLIC SHINGLES

25 years ago. They are in perfect condition today, have never needed repairs. "Eastlake" Shingles are made of the best sheet steel and can be laid in one quarter the time that it takes to lay any other metal shingle. They are so different from the four-lock shingle which only overlaps 1½ inches, the "Eastlake" has a full three inch overlap, absolutely preventing the drifting snow and rain reaching the wooden sheeting.

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Metallie Roofing Co MANUFACTURERS

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Write for Particulars

the stable before feeding, then it will receive no such taint. There is neverany complaint about mist when silage complaint about mist when silage control of milk sold and used is produced from which are regularly feed silage. May not a summer when pastures become dry and at all times when a big flow of milk is desired.

To avoid the silage taint on milk it is wholly a question of 'feed it at the right time.' Silage is here to stay, and were it not for it there would not be near the quantity of milk and butter available to meet the demand of the markets.

## Feeding Dairy Cows

Feeding Dairy Cows

J. F. Clark, Victoria Uo., Ont.

Farmers in our locality that have silos, feed silage, hay and roots to their dairy cows. Those who have alfalfa use it in place of hay. Many of us have no silos and for the most part, we feed corn, roots and chop, also straw and hay. In my own practice, as I have no silo, I cut the straw and coru and pulp the turnips. This is mixed together 24 hours ahead of feeding time. The corn is allowed to heat, which seems to make it more palatable and the cows like it better. The feed is mixed by putting it into alternate layers. A handful of sail is sprinkled over each and then the whole is mixed over with a fork. The cows are fed twice a day, morning and evening with this mixture and some chop sprinkled on it. We have no set amount for each cow as some require much more than others, so each gets just what it will eat up clean.

For their noon feed, they get straw

the ensilage. The smashing of the cob and the mixing of the grain with the rest of the material means more palatable, hence more valuable, for ago-palatablity being one of the most desirable and most valuable qualities of a food. Shredded some ensilage where every part of the plant is too be much better than eut corn ensilage where every part of the plant is been into be much better than eut corn ensilage. Corn cut by the blower ensilage content of the shredded article—J.H.S.

Turnips Flavor Dairy Product

I wish to make enquiries rearding the feeding of turnips to mileh catter. Sate season I fed quite a numler, and did not find any turnipy taste or around do not wish and the shredded article—J.H.S.

Turnips Flavor Dairy Products

I wish to make enquiries rearding the feeding of turnips to mileh catter. Last season I fed quite a numler, and did not find any turnipy taste or strong the feeding of turnips to mileh catter. Last season I fed quite a numler, and did not find any turnipy taste or strong the feeding of turnips to refer the content of the shredded article—J.H.S.

Turnips Flavor Dairy Products

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The time to feed silage with being milking time.

The time to feed silage safter milk; and the atmosphere during milking time.

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THE FARMER'S SCHOOL

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MUIR CO., LIMITED BRANTFORD, - CANABA

## HORTICULTURE

## Killing-Back of Fruit Trees

W. T. Macoun, Central Experimental

W. T. Macoun, Centron 257
Farm, Ottawa

Killing-back is the indication of inherent tenderness of the variety or inherent tenderness of Plants which innerent tenderness of the variety of immaturity of wood. Plants which need a long season in which to matthe their wood will go on growing so late when cultivated in a climate having a shorter season that their wood is not a shorter season that their wood is not matured and the young wood or the whole trees may be killed. When the wood of a tree which would otherwise prove tender is well ripened it will often survive, but there are fruits and carricties that will stand only certain maintaining tappagating after which

minimum temperatures, after which are apparently hardy will survive until after a heavy crop vive until after a newy crop followed by a severe winter when, owing to lowered vitality, they will be destroyed. The Ben Davis apple is an example of this. As has been said, killing back may be due to the immature condition of the wood or it may be due to the death

imrsature condition of the wood or it may be due to the death of the protoplasm.

When winter killing is due to iamaturity of wood it may be prevented to a large extent by methods of cultivation. From experiments conducted at Ottawa by the chemist, Mr. Frank F. Shutt, it was found that varieties of apples which were known to be tender had usually more moisture in the twigs in more moisture in the twigs in winter than those which were hardier, partly owing, no doubt, to the fact that they were more immature than those of trees which were hardier. When trees of certain varieties are killed after heavy bearing, thinning of the fruit should be practised

the fruit should be practised rein order to prevent the loweringing of vitality. The injury to branches of suruls or herbaceous plants can often be prevented, as is well known, by thawing them out gradually, when the sap which, on being frozen is withdrawn into the intercellular spaces, will return to the cells, whereas if thawed out quickly the cells might break down.

#### Plum Trees Not Fruiting

I have some plum trees five years planted that have not yet borne fruit. Last spring they were loaded with blossoms, like bunches of snowballs, but no plums came.—T. L., Grey Co., Ont.

Your plum trees may be self-sterile; that is, they may not be susceptible to pollination by pollen from their own flowers. It will depend upon to pollination by pollen from their own flowers. It will depend upon the variety, It is very common among plums. Send the name of variety and we will suggest another variety to plant alongside as a pollenizer. The trouble may have teen due also to wet weather at time of blossoming which would prevent the transmission of pollen. Insect pests may have had something to do with it.

#### **Protecting Trees**

What is the proper way to put building paper around young trees? Should there be one lap or two? Should it be bound tight? How high up should it come on the tree? Should they be banked with earth around bottom of paper? Should manure be put sround trees before or after the ground is frozen? The property of the proper

Over-lap the building paper about one-third. Bind it closely but not too tightly. It should be about 18 inches high from the ground. Bank with nightly. It should be about 18 inches high from the ground. Bank with earth to prevent entrance of pests from below. Manure need not be put around the trees until after the ground is frozen. It makes not frozen, the trees or not provided that it is

removed or worked into the soil as white washing the trunks before put-ting on the paper, will not aid in the protection against mice or sun scald but will help to destroy eggs of cocoons and insects. White wash-of cocoons and insects. White wasning the trunks and branches of trees in winter always is more or less beneficial, particularly on trees that are infested with the oyster-shell scale.

### White Grub in Strawberry Bed

White grubs destroyed many of my trawberries last summer. How can they rawberries last summer. Ho-controlled?—A. W., Brant Co., Ont. In its mature form the white grub May betle or "June

is the common May Leetle or "Jun-bug." It is troublesome only in straw berry beds that have been planted on sod and sometimes on the edges of old patches that have sod near them. This beetle lays its

scale. Thoroughness of spraying is necessary, and it will be easier for you to do a complete job after the trees are pruned than before. Also, pruning helps to put vigor into that part of the tree which remains.

#### Grewing Mushrooms

Please give some information on the ulture of mushroom3.--A, S., Peel Co.,

In the growing of mushrooms strict attention to all details is necessary. English brick spawn commonly is used and can be purchased from any seedsman. There are different meth-ods of culture. The following is one

ods of culture. The following is one of the simplest:

Mushroom beds may be made any time in fall. Prepare the compost in a shed. Use fresh horse manure and



Some of the Apples at the Ontario Horticultural Exhibition, at Toronto, in November In the foreground of the illustration is shown the nee Experimental Fruit Station, and in the backgrahibit from Leeds-Grenville counties. Both of play of the St. Lav an the foreground of the indiration is shown the sping of the St. Law-rence Experimental Fruit Station, and in the backgreat on same table is the exhibit from Leeds-Grenville counties. Both of the and staged by Mr. Harold Jones of Maitland, who is director of the St. Law-rence Station. They contained some of the best applies at the exhibition.

eggs in sod land and requires two years to come to maturity. It is wise, therefore, not to plant strawberries on sod land unless other land cannot be secured. When these grubs are pre-sent about the only thing to do is to dig them out from below the plants when the latter commence to wit.

#### Propagating Spruce Trees

Are young spruce trees propagated by seeds or slips?-S. T., Huron Co., Ont. seeds or slips?—S. T., Huron Co., Ont. Spruce trees usually are grown from seeds and sometimes by layers or grafts. The Norway spruce and the balsam fir make good stocks to graft on. Veneer grafting under glass in winter succeeds better than any method of outdoor work in this

#### Fall Spraying and Pruning

A number of requests for informa-tion in regard to fall spraying and fall pruning reached Professor H. A. Surface, State Zoologist of Pennsyl-vania recently. The following reply vania recently. The following reply to one of the letters received will be of interest to owners of orchards

"It is not necessary to spray in the fall for scale insects, but if your trees are much infested, it is better to spray both fall and spring. If my trees were not badly infested, I should spray only in the spring when the the spring w buds are swelling. I consider this the best time of the year to spray, and, of course, the based lime-sulphur wash, either commercial or homemade, my choice of material.

"In regard to fall pruning I can ay that this is as good as spring pruning, the pruning being done at any time when the leaves are off. If you will prune your trees this fell, you can then spray them at any time during the fall, winter or spring,

eggs in sod land and requires two turn it over every second day for 8 years to come to maturity. It is wise, or 10 days, when it should be dry, therefore, not to plant strawberries on I f difficult to dry, add a little dry sod land unless other land cannot be loam. Take care that the manure

When the compost is in a suitable condition, prepare the bed in the cel-lar. The latter should have a minilar. The fatter should have a mini-mum temperature of 50 degrees, and a good, dry bottom. Place a 10-inch plank in the desired position and fill in with manure. The bed must be made in successive layers, such being spread thinly and thoroughly packed to prevent injury to the spawn from the control of the property of the part of the most control of 12 inches and the part of the sufficient. sufficient

It is safe to spawn when the tem-It is safe to spawn when the tem-perature does not exceed 90 degrees. Should it go above 100 degrees, the manure may be cooled with water. Break cakes of brick spawn into pieces the size of a hen's egg, and place the same two inches deep in

and have good results in killing the the bed at intervals of eight inches

the bed at intervals of eight inches cach way. Smooth the bed with a spade and add a thin layer of loam if d-sired. In a week or 10 days the bed may be sprinkled with water, not much being necessary until the crop begins to show.

The bed should be kept at a normal temperature of 70 degrees. If it becomes dry, apply tepid water to the dry spots; but do not saturate the bed. Should the heat decline apply a covering of hay or other material to keep up the warmth.

#### Small Fruit Culture

The history of small fruit culture in Ontario during the past 50 years was told by Mr. A. W. Peart of Burlington at the convention of the Ontario Fruit Growers' Association. Fifty years ago there were few strawberries grown in Upper Canada and altogether only about 50 or 75 acres of small fruits. The speaker referred to some of the old varieties that have gone out of date. There is no part of the province where some varieties of small fruits cannot some varieties of small fruits cannot be grown. Mr. Peart reviewed the history of small fruit culture by periods of 10 years. The most recent decade has been marked by much progress. Canning and jam factories absorb thousands of cases. They consume one-third to one-half of the strawberries and raspberries grown in the province. Mr. Peart's estimated acreage in 1909 is: strewberries, 4,500; raspberries, 2,000; blackberries, 1,000; currants, 1,000; gooseberries, 500; to-tal 9,000 acres and a value of \$3,-

The following varieties were recommended by the speaker: Strawberries, Bederwood, Splendid, Warfield, Grenpeacrwood, spiendid, warned, drein-ville, Williams, Sample, Saunders, Irene, Buster; red raspberries: Hil-born, Older, Gregg, Smith's Giant; purple raspberries: Columbian, Shaf-fer; white raspberries: Golden Queen; red currants: Fav. Cherry. Pomena. red currants: Fay, Cherry, Pomona, Red Cross, Wilder; white currants: White Grape; black currants: Victor ia, Champion, Lee, Naples, Saunders; blackberries: Agawam, Snyder, Kittatinny; gooseberries: Pearl, Downing, Red Jacket. The adaptability of some of these varieties is very lead.

"Many questions are pressing for solution," said Mr. Peart. "These include varieties best adapted to certain soils and localities; proper care cultivation and pruning; how to dispose of injurious insects; lowering the cost of production; and finding good markets. The outlook is promising, however. Better systems of distribution, the increase in population and tion, the increase 'n population and the advancing tide of immigration into the northwest are creating a demand for our fruits, both fresh and canned, the potentialities of which are unlimited."

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## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* POULTRY YARD

#### neseseseseseseseseseseses Seasonable Poultry Notes

S. Short, Carleton Co., Ont., in Canadian Horticulturist

in Canadian Horticulturists

Frequently the question arises as to which are the best females to keep for winter laying. In weeding out to sometimes it is either the hens or pullets that have to go for lack of room. Experience has taught the writer that the best winter layers are yearling hens that have moulted earwarding hens that have moulted earwarding hens that have moulted early-hatched pullets. Next comes early-hatched pullets are arrived the preceding real that the preceding that the preceding that the preceding that the preceding real that the preceding that the provent is provent, if yearing hens two and three years old sometimes prove exceedingly profitable of such breeds as the Minorcas, Legborns and Andalusans.

Care should be exercised not to

such breeds as the Minorcas, Legihorns and Andalusania.

Care should be exercised not to
overfeed the laying stock when they
are first shut in their winter quarters
or in fact at any time. Enclosed fowl
will not get the exercise they have
been enjoying when running at large
and are more susceptible to crop
binding and going off their food. Keep
them fairly hungry for the first week
such then increase allowances. By
and then increase allowances. By
the crops at night, a good
dea may be crops at night, a good
dea may are exting the comparence
or not they are getting one of the fowl
much. When feeling in the morning,
a general inspection of the fowl may
be made and any birds that appear
mopish and indifferent about eating
should be caught and the crops felt
to see if they have indigestion. If
so, they should be put in hospital for
a day without food and plenty of water. If no change has taken place,
ter, If no change has taken place,
tent are soft and the fowl returned
to the hospital for another day. Usually one treatment of this kind will
effect a cure.

CURTAIN FRONT HOUSES

CURTAIN FRONT HOUSES

Government authorities and others Government authorities and others advocate the outrain front house as leing the best adapted for this climate. Descriptions and plans tell us they are easy and cheaply built and results from fowl so kept are better than any other method. They so made with one thickness of boards and results from fowl so kept are better than any other method. They are made with one thickness of boards so do not cost much. The curtain front is cheaper than glass and the large statements of the control of the cost of of first-class matched lumber so that there are no cracks or crevices for the cool wind to get through. The fowl go out into these whenever they are disposed to scratch and dust themselves. On the whole the arrangements are good and comfortable and beter than some of the old time double boarded houses almost hermetically scaled and which admit no fresh air and are damp and deadly. These curtain houses seem especially suited, to small combed fowl. I have not

seen Minoreas or Leghorns kept under these conditions nor do I think the scratching room would be warm enough for them in zero weather for their large combs easily freeze and frost bites will stop hens from laying.

#### Early Pullets for Fall Eggs

Prof. F. C. Elford, Macdonald College About the middle of July we put about the middle of July we put into laying pens a few extra early pullets of the following breeds: Bar-red Plymouth Rocks, white Wyan-dottes, Rhode Island Reds and white dottes, knode Island Rees and while Leghorns. These pullets were all hatched from the 24th of May to the end of the month and were, therefore, between four and five months old. The first egg laid was from a Rock pullet, that celebrated the day she was five months old by laying her first egg. The first Wyandotte egg was laid on August 4, and the first egg received from the white Leghorn was August 10. No egg was received from

August 10. No egg was received from the Red pen until August 25. Into each pen was put 25 pullets, or 100 in all. Up to the lat of Nov-ember only 68 of these have laid as follows: Rocks, 19; Wyandottes, 15; Reds, 12; Leghorns, 11. The egg yield to the same time with the aver-age number laid by each pullet that was laying is: Rocks, total 482 eggs, averane 25 ergs: Wyandottes total was laying is: Rocks, total 482 eggs, average 25 eggs; Wyandottes total 208; average 14 eggs. Reds to tal 189, average 16 eggs. Leghorns, total 142, average 18 eggs. The best individual records for the pen is: Rocks, 46; Wyandottes, 34; Legrons, 33; Reds, 27.
For the 68 pullets that laid, the total eggs laid was 1021 or an average of 15 eggs for each pullet. At 25 cents a dozen it weaken.

25 cents a dozen it means that each 20 cents a dozen it means that each pullet gave 30 cents worth of eggs in the three months. In reality they paid better for new laid eggs being so scarce the price was much higher but for one who wants a constant supply the experiment may be worth

The Rock pullet that laid the 46 The Rock pullet that laid the 46 eggs is the pullet that laid first, commencing the day she was five months old. By the time she was six months old she had laid 28 eggs. She then quit for five weeks, and started in again and laid 18 eggs during October and 5 eggs up to the 6th of November. This was a little experiment. We wanted to see if we could get eggs from early nullest during get eggs from early pullets during the fall months, when eggs are us-ually low. Just how these pullets will lay during the winter remains to be

#### Profitable Pure-Bred Poultry

C. Murray Smith, Brant Co., Ont.

C. Murray Smith, Brant Co., Unt. With eggs at 40 cents already and going up (likely as bigh as 60 cents before long) the wise farmer will be likely to sit up and take notice if never before of the profits to be made in the egg industry. The cold storage houses in the height of the egg season paid 23 cents a dozen, a record write for them. price for them.

millions of eggs are shipped from Millions of eggs are shipped from Russia to England. There they are desiccated, canned up, frozen and thence shipped to New York where they are used by bakers and confectioners. There is no danger of eggs were becoming them. ever becoming cheap again if only on account of the ever-increasing demand for their use in the Arts and Trades to say nothing of the growing con-sumption for table use.

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bring the fancy prices that a lot of uniform size and color does. The same applies to marketing poultry, the poorest specimen lowers the price on

The better way would be to grade them all, fat hens in one lot will sell on sight, poor hens and late chicks will not bring good prices at any time

This uniformity in eggs and birds is only one of the many advantages in keeping a flock of pure-bred poultry. Now it is a curious fact that many farmers who would be ashamed to have monred satile, sheep or swine to have monred satile. many farmers who would be assumed to have mongrel cattle, sheep or swince will cheerfully tolerate mongrels in the poultry yard. The time for contempt of "chicken raisin"," has gone by. It can be proved that fowls pay better and pay quicker than any other farm stock; an account book showing expenses and receipts will soon con-vince anyone of that.

Blooded birds cost no more to raise Blooded birds cost no more to raise or keep than the mixed flock does and there is this difference that there is always a demand for settings of eggs at a good price from them, themselve cockerels and pullets find a ready sale at one dollar spice and upwards.

#### Peterboro Poultry Show

Peterboro Poultry Show
The officers of the Peterboro Poultry
Association have issued the prize list
for their forthcoming exhibition to be
held in the market hall, Peterboro,
on Jan. 4, 5 and 6. The exhibition
of this association last year was a decided success, and the one this year
plantes to surpass it in every way.
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## FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Comof Park

FARM AND DAIRY is published every Thursday. It is the official organ of the British Columble Manitoba Eastern and Western Ontark. and Bedford District, Quebec, Dairymen's Associations, and of the Canadian Holstein, Ayrabire, and Jer-sey Cattle Breeders' Associations,

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#### CONTROL SOW THISTLE

Farm and Dairy readers, from their own experience, as well as through the timely articles and discussions that have been featured in these columns in recent months, are more or less familiar with the nature of that great farmer's foe, sow thistle. The need for checking the spread of this pest is generally and freely admitted. The well known agricultural authority and Farmer's Institute speaker, Mr. Henry Glendinning, at the recent annual convention of the Dominion Grange, said that in Wellington County he had seen fields of grain so infested with sow thistle that had he been offered the crop free with the taxes on the land paid by the owner, he would not have accepted it.

When conditions on a farm, even although such conditions are exceptional, have reached such a climax, surely it is high time to curb a foe that could be the means of bringing them to such a pass. Unless a systematic effort is put forth to improve the sitution, thousands of other farms will be been received this past year in better commended for having undertaken to is needed.

fore long be equally as badly infested. Mr. Glendinning advocated a campaign of education as a means of checking this pest. Farm and Dairy believes with Mr. Glendinning that a campaign of education in regard to sow thistle will, and has already proved, in part, effective in checking sow thistle. But the educational campaign as suggested needs something to back it up if it would have that efficiency needed to effectually check the spread of sow thistle. That something needed is a stringent weed law in the province of Ontario which will make provision for having all sow thistle prevented from seeding.

Manitoba has enacted such a law. That province finds it decidedly beneficial. Mr. I. J. Golden, Deputy Minister of Agriculture for Manitoba. when writing to Farm and Dairy in regard to the advantage of their stringent weed act, said, "We find this 'Act, while of course not enforced in 'all cases on account of lack of ma-'chinery, to be very beneficial. It re-"sults, not so much on account of its "being stringent in compelling the 'cutting of weeds, but because it 'helps the farmers to realize that 'sow thistle is dangerous. They are 'more alive to the necessity of de-'stroying weeds than they were before this Act came in force. If it 'does no more than make our farmers 'more careful, the Act has accom-'plished much good for the district."

When such results have followed the passing of a weed law in Manitoba, we may expect that similar benefits would be derived from a law seeking to check sow thistle in Ontario. The Ontario Legislature can rest assured that such a law is in the best interests of Ontario agriculture, and that it would have the support of the greater proportion of our Ontario farmers. This matter should not be further delayed. It should be dealt with effectively at the forthcoming session of the Legislature.

#### FOR A CLEANER MILK

The Milk, Cheese and Butter Act in force in Ontario provides that all dairy instructors appointed under the Act shall have free access and admission to the premises of all pers ns supplying milk or cream to any cheese factory or creamery, or for sale in cities, towns or incorporated villages. A large part of the work performed by dairy instructors of both Eastern and Western Ontario is in visiting cheese factories and creameries. Any milk producer who neglects to take proper care of his milk is liable, however, to be called upon at any time. Possible embarrassment, not to mention the imposition of penalties, can be avoided by keeping premises in such condition as one would like the instructor to find.

In view of the instruction that has been given through the agricultural bulletins, farmers' institutes and other mediums, there are few, if any, who do not know how to obtain clean milk. Cheese makers and dairymen generally report that milk has

condition than ever before. Much of this improvement is due to the work of horses. of the dairy instructors in visiting patrons. The last report of the Chief Dairy Instructor for Eastern Ontario, Mr. G. G. Publow, snows that in a single year, as many as 500 patrons had been visited by one instructor This was in the case of Instructor R W. Ward, of the Peterborough District. Other instructors made as many visits as 300 in one case, down to as few as 20, and even to 11.

Since this latter form of instruction has proved so beneficial, it would be be well to extend it still further. Visiting patrons should be more generally practised by many of the instructors. Patrons who send poor milk to a factory lower the price paid to their brother patrons for their milk. These offenders need to be hunted out and persuaded and, if necessary, forced, to make the needed improvements in their methods.

#### FRENCH-CANADIAN HORSES

Our warning to those who are interested in French-Candian Horses that it would be well for them to exercise much care when buying or breeding animals of this breed, on account of their composite breeding, has brought forth a letter from a breeder in Quebec. This breeder says: "You are perfectly right in your contentions that breeders should be very care-'ful in buying French-Canadian horses. A few days ago a farmer "of St. Anne de Beaupre offered for 'sale a so-called French-Canadian horse, registered, he said by The "Canadian Horse Society. He ack-'nowledged that the sire of that 'horse was an Anglo-Norman, 'Malto, 'sold some years ago, by Mr. R. R. "Ness, and owned before he died by one Cloutier in Montmorency coun-'ty. In other instances, the sires of 'so-called French-Canadian horses "will be a Clyde, or a Thoroughbred, "or a horse of some other breed. "The registration of these horses is in many cases, the greatest humbug that I ever saw. These horses 'are mostly half-breeds."

The commission that was appointed by the Dominion Government to establish a standard for the French-Canadian horse has accomplished much good work in their efforts to standardize this breed. The commission has visited the different counties in the province of Quebec, and has inspected all the French-Canadian horses presented for inspection, and for registration in the new record book that has been started by the Dominion Government. Last year about 4,000 horses were examined by the commission. Only about 1,500 were accepted. A lot of horses that previously had been registered, were culled out and refused registry in the new book.

The French-Canadian breed is not a nonentity as some people suppose. In view of the incidents cited, however, it is apparent that it is well to be exceedingly careful in buying or breeding from animals of this breed, The Dominion Government is to be

improve the standing of this breed

#### NATIONAL COUNCIL OF AGRICUL TURE

A movement has been started in our western provinces, favoring the for mation of a National Council of Ag riculture. Its objects as given are, in part: "To organize the farm popula 'tion for the study of social and economic problems; to collect and disseminate such material from scientific and literary sources....a are necessary for the proper information of our people; to formulate our demands for legislation, and present them....to the notice of Parliament and our different legis lative bodies; to encourage the en try of our farmers into active mem bership of one or other of the political associations....as a means to make the political parties responsive to and representative of the demands of the people who form the bulk of the population; to urge the adoption of co-operative methods by our members (but outside our Associa-'tion) in the purchase and sale of commodities...."

It is hoped that the proposed Nat ional Council will unite the farmers of Ontario, Manitoba, Saskatchewan and Alberta in one body and thereby have the weight necessary to make itself felt on all questions of importance to farmers and for the good of the country as a whole. A national organization, such as is proposed, might accomplish much for the bene fit of agriculture, and Farm and Dairy therefore views the proposition with commendation, although we are conscious that there are great inherent difficulties in all movements of this kind.

It is patent to all that in the past farmers have had very little to say in matters of legislation, notwithstand ing the fact that the rural population forms the major part of the population of Canada. This is due to the fact that while strong in numbers, we have exerted our influence only as individuals. Through a National Council of Agriculture, the machinery would be provided that is needed, and without which united action is im possible.

In the West there are three provin cial organizations. The Grain Grovers' Association of Manitoba, Grain Growers' Association of Sas katchewan and The United Farmers of Alberta. These three organizations are already linked together in an inter-provincial council. Here in the East, we have the Grange. A linking of these four bodies would give a national organization.

This National Council of Agriculture, it is expected, will be completed in the first months of the new year. The movement deserves support, but it will have to be managed with great care. Its management will be expensive, and there will be many local jealousies to be overcome. The difficulties, however, should not be in surmountable. Such an organization

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Creame

A most pro Milk Creame recent dairy boro. Mr. E tated that creamery in invested about and now age an extent the little whole in exy. He beli three miles o arators should use it was it quality of butter of a uniter of a uniter of the control of the con

Publow at the said that at parator agen should have they and thei hould be th that time, agents," said washing once н

"There is up in front it hit you," ton. "There whole milk of Eastern O ering creame stay and we best of it. In readily than fore, from the cream gamake a bette trouble is th enough care take it too take it too on the averwill only tes still lower. is a great lo readily, the when you ge less water made from it is not like c more water the quality makes not amount you corporate t you do not e cent. set by SEP

"Fifty per are in barns credit to the business, and them. The more conven work in car the skim mi they should room situate where an ou The room sh in order the milk. I has set up on st see separ stall and to machine, its horse blanke ing been u objectionable

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and to suggest subjects for theusistics.
Address letters to Greanery Department,

#### Cream Gathering vs. Whole Milk Creameries

Milk Creameries

A most profitable discussion relative to "Gream Gathering versus Whole Milk Creameries" took place at the recent dairy meeting held in Peterboro. Mr. E. Hawthorne of Warsaw stated that their factory ran as a creamery in winter time. They had invested about \$800 in a separator and now agents were going through the country selling separators to such an extent that there would soon be little whole milk coming to the creaming the country and the country had been and the country that the country and the country had been and the country and

HERE TO STAY

"There is no use of one getting up in front of the train and letting it hit you," continued Mr. Single-more in the single in the you, continued Mr. Single-more in the single in the you, continued Mr. Single-more in the single in the young the single in the young the single in the young is not like cheese. With cheese, the more water you put in, the poorer the quality will be. With butter, it makes not so much difference what amount you put in as how you in-corporate the moisture, providing you do not exceed the limit of 16 per cent, set by Law.

SEPARATORS IN BARNS

"Fifty per cent. of the separators are in barns. Some of them are a credit to the barn, to the dairy business, and to the men to the barn is more convenient. There is much less work in carrying the milk to it and the skim milk to where it is to be fed. When separators are in the larm they should be placed in a separate room situated against the outside wall where an outside window is available. The room should have a cenent limit. It have seen separators rooms stuted to the second that in the control of the second that is the second that i

THE PEOPLE KNOW BETTER

"Too many separators are washed only once a day in summer and less in winter. People know better than this. The women of the house know to Farm and Dairy.

better. They will not leave their pails without washing. It is 10 times mori important that they wash their separate that they wash their separate that they washed only once a day or less. Some explain that their separators that 75 per cent. of them are washed only once a day or less. Some explain that their separator has a self emptying bowl, therefore it does not need washing, others that they leave water standing in it, etc. One cannot get over the need of washing the separator each time it is used.

All the dirt contained in the milk is sticking in it," concluded Mr. Singleton, "and it will stay there, where it will contaminate the milk and cream that passes over it unless such be removed by actual washing."

#### Creamery Co-operation in the Winter Season

"There is a splendia chance for co-operation in the creamery business where the creamery is run in the win-ter and cheese is made in summer," said Mr. Hy. Glendinning at the Dairy meeting recently held in Peter-boro. "The creamery business requires and MI. Hy Grendmining at the Darry meeting recently held in Petersboro. "The creamery business required to the control of the

A Tribute to the Creamery

The following tribute to the creamery is going the round of the press:
Butter worth 30 cents a pound is made from the same milk that grease worth 4 cents a pound is made. It takes as much milk to make the one as the other. The one is the result of ignorance, the other of intelligence. The one goes begging in the market, and brings poverty upon the producer, the other is everywhere in the constant of the constan The following tribute to the cream-



# "The O.A.C. No. 21" Mandscheuri Barley

is a new strain of barley that has been yielding several bushels more per acre, is free from rust, has a much stiffer and longer straw, stands up better, and in every way it is superior to the common 6-rowed or to the common Mandscheuri variety from which it was derived.

A brief history of the "O.A.C. No. 21" Barley was published in FARM AND DAIRY for Dec. 2. You should read it.

FARM AND DAIRY has an option on a quantity of this special strain of barley and makes the following most liberal Premium Offer for New Subscriptions to FARM AND DAIRY:

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CIRCULATION DEPT. FARM AND DAIRY PETERBORO, ONT.

## Cheese Department

Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest superes for discussion. Audress letters to The Cheese anaker's Department.

#### ractory Meetings Successful

Through the advice and influence of Messrs. G. A. Giliespie and Henry Glendinning, the district representaties, respectively, on the board of the Eastern Untario Dairymen's Associacion, the annual meetings in connection with a large number of cheese factories in these counties have been addressed by Mr. Geo. H. Barr, as-Ottawa, sistant dairy commissioner, Ottawa, and Mr. Jos. Burgess of woodstock, Ont. Mr. Barr has given his highly inscrucive illustrated address on "The Care of Milk for Cheese Making.

Mr. Burgess who has charge of the cow testing work for Ontario has aduressed these meetings on matters per-

taining to the cow testing work.

Mess,s. Barr and Burgess, while
in Peterboro last week, called on
farm and Dairy. The meetings have
proved popular and have been exceedproved popular and have oven exceedingly well attended, the lowest attendance at any one place being 40. At an evening meeting heid at Roseneath, fully 250 were in attendance, while at Westwood, over 100 turned out to take advantage of the instruction of said.

tion offered

As a result of their efforts, the membership in connection with Cow Testing Associations in Peterboro County has been fully doubled. The means adopted of getting this instruction to patrons of cheese factories, namely, that of having these addresses delivered at the annual factory meetings is a most commendable one. The work of Messrs. Barr and Burgess in this connection should result in a nis connection should result in a reat up-lift to the dairy industry in Peterboro and Victoria Counties. This week, Messrs. Barr and Bur-ess are attending meetings in the

Lindsay district.

## Dairying in Western Ontario

Frank Hern, Chief Instructor. London

In Western Ontario we made 394 tons of cheese more in 1908 than in 1907, or 17,221 tons. The returns are not yet in for 1909, but indications point to a larger make this year. The returns for the amount of butter made this year will be in shortly and a larger make is expected, although a larger make is expected, although considerable cream is being shipped to Port Huron from sections West of and near London, 390 more patrons sent milk to cheese factories this year than in 1908, or 16,985, and 1162 more patrons have been engaged in supplying cream to the various creameries, or 15, 307 making a total of 32,292.

Eight new factories were built at a of about \$19,000, A number of ries pasteurized the whey this, with very good success. Some factories year, with very good success. Some factories have not done the work properly. The majority however have done excellent work and have sent home the whey with an average acidity of .37 per cent. and an average per cent. of fat of .204, while the factories not pasteurizing the whey sent home the whey with an average.

> Seldom See a big knee like this, but your horse may have a bunch or bruise on his Ankle, Hock, Stiffe, Ence or Throst.

ABSORBINE

ores. Allays Pain. Book free.
, P.B.F., 123 Temple St., Springfield, Mass.

necessassessessessessesses acidity of 1.12 per cent., and an average fat of only .1 per cent. These figures confirm those of last year and it is well established that by proper pasteurization of whey and a reasonable amount of attention given the whey tanks, comparatively sweet clean whey in good condition for feed-ing can be sent home from our cheese factories at a very small cost for pasteurization compared with the fits derived. The patrons seem t fits derived. The patrons seem to appreciate the effort that is being made in trying to send them home sweet,

One of the difficulties in regard to One of the difficulties in regard to securing effective results from pasteurization lies in the custom of some factories to allow the wash water to 20 into the whey tanks. This should not be, even if the whey is not pasteurized. Many of our factories not having natural drainage are begin-having natural drainage are beginning to see this and are arranging to put in septic tanks to handle this wash water. Several have already wash water. Several have already been put in and more are to follow is a movement in the right direction, and the cost is not great. One of the main points for success in operating these septic tanks is that they should be large enough to handle all the wash water easily. I would suggest a tank for an average factory to be built of cement 15 feet

factory to be built of cement 15 feet long, five feet deep, and six feet wide, with three compartments. Then tile away the wash water after it has been treated in the tank. Since January 1st, up to October 31st, some 145 annual and district meetings have been held, with a total attendance of 10,037. These meetings are reaching a large number of pa-trons. Some of the District Meetings that were held during November were very well attended, while others were not.

The Instructors are attending some Farmer's Club meetings in their respective districts and good attendance. Applications 'are already coming in for speakers to attend annual meetings during the

coming winter.

The Dairy Exhibition for the coming convention to be held in St. Thomas, Jan. 12th and 13th, promises to be large as a good list of entries are already in. Some entries are also in for the Dairy Herd Competition which is held in connection with the convention but not as many as we had hoped would take advantage of the fairly liberal prizes.

#### Factories that Pay by Test

J. F. Singleton, Kingston Dairy School

Out of 1,177 cheese factories that are Out of 1,177 cheese ractories that in operation in Ontaria, only 107 pay in operation in Omaria, only 10° pay by test—less than 10 per cent. The advantage of paying by test is that each patron gets what he is entitled to. It prevents dishonesty. It has been said that the proper way to deal with crime is not to punish, but to prevent it. The method of paying by test is within the reach of every fac-ters.

tory It has been found that where milk is paid for by test it is given better care. Where paying by test has been adopted, ice houses become more com-mon and greater care is given to the milk in order that it will be delivered in the best possible condition.

#### Dairying in Woodstock District

The annual report of Dairy Instructor Hart as read by him at the recent district dairy meeting at Woodstock showed that there were 26 factories in the Woodstock and Ingerfactories in the Woodstock and Inger-soll section, with a total of 2,000 pa-trons. The past season saw a great improvement in the milk supply. Despite the cool, backward weather there was a fine quality of milk. A large number of patrons good rid of their rusty cans, and also made improvements in their tanks.

Twenty-one factories have gone into

pasteurization of whey. were also more patrons cooling their milk than ever before by using water ice in cement and wooden

and ice in cement and wooden tanks. The makers have also used better judgment than ever before in the selection of their milk. The factories should all stand by one another and when milk is rejected by one factory it should not be taken in by another. From the cheese standpoint there

was also a marked improvement. The spring cheese was all good, but in the hot weather some of the factories had a little trouble with their curd.

Regarding factory equipment, the report stated that all the proprietors ad made considerable improvements during the past season.

After reading the report, Mr. Hart gave the makers present some advice. He urged them not to use old wire curd knives at they make poor cuts. He recommended a quar-

re rich knife for the cutting of curd.

Regarding whey tanks he advised the makers not to use a cement tank as in time they crumble away. He said that in this section there are a number of cement and wooden tanks and one steel tank being used. He said that they are quite an expense at first, but are cheap in the long

#### Dairy Instruction in Brantford District

R. H. Green, Dairy Instructor, Cayuga

During the season of 1900, I spent 100 full days in the factories and made 106 call visits. There are 28 made 106 call visits. There are 28 factories in the group. I made 23 d curd tests, found 62 of these samples tainted; and I visited 80 patrons.

The average per cent. of fat in the muk for season was 3.45 per cent. The average loss or fat in the whey for season was .22 per cent; the nignest .32 per cent.; and the lowest .18 per I always find the higher loss cent in the whey when the curd is cut with the coarse one-half inch knife, cut several times, and raked with the common rake. The lowest loss of fat in the whey I find where the curd is cut twice with the quarter inch knife with the ordinary knife, and one raked with a McPherson read advised with agitators. Would strongly advise the McPherson rake to outsed where there are no agitators, out would always prefer agitators. Sixteen factories have agitators; seven use McPherson rakes, and five the course McPherson rakes, fighteen factories have agitators; five use the manual hay rake. Eighteen factories have a five use the common hay rake. Eighteen factor-ies use ¼ wire knife, five use the 3-8 inch wire knife, and only five now

use the ½ inch knives.
Sixteen factories pasteurized Sixteen factories passed whey, 11 more than last year. The majority have done a good job, while a few have not. Where poor work s seen done in the pasteurizing of the whey the tanks have not been cleaned often enough.

All the factories now nave elevated whey tanks and only four with the old pumps. Two of these are going these are going old pumps. Two of these are going to put up elevated tanks next sea son. Five years ago there were 18 factories with tanks in the ground, only very seldom cleaned and with the old hand pumps. A great improvement is shown here so far as the whey

tanks are concerned.

I made 6014 lactometer tests and 155 Babcock tests. Seven patrons were fined from \$10 to \$50 for sendwere fined from \$10 to \$50 for send-ing deteriorated milk to the factory. One patron appealed the case to the county court but the magistrate's conviction was sustained. Only factories, make whey butter, the factories use the acidi-ity. All the factories use the acidi-ity. All the factories also use a pure culture. Five years ago only three were using a pure cutture. Would suggest however that the mak-

ers do not entirely discard the

iron and rennet test but use them along with the acidimeter.

The improvements amount to \$'.00" consisting of new boilers, engines, vats and elevated whey tanks with

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other small utensils. There has been a great improvement this year in the quality of the milk and also in the less cheese being rejected than

cheese, loss cheese being rejected than in any former year. We have had less trouble with gas-sy and greasy flavors particularly where the whey was properly pasteur-ized. I can see also improvement in the milk at the factories where speak-ers have been able to attend the annual meetings and give the patrons a short talk on the care of milk factories pay by test, and two and two tories are equipped with a sufficient number of cups to make curd tests of all the patron's milk at one time. Would consider it would be a good plan for all factories to have these curd test cups.

A. Sanderson of Oxford, Ont., has been re-elected by acclamation a director (for Grenville county) the Eastern Ontario Dairymen



December

The

W ERE to geneous mas ut to make farm woman to the people atest the gre lization. Yet so com

so often recu that the sens ed to it. T its presence, formers in it they play. thing that has it borne that neither members of her crushing

But this t us take a lo were a create and, therefor of a first im tive of a ha jacent town husband. It rattle of the heard in the beginning to barley, and and the farm and we are asks us to d invitation. We see th

first time. I

as she passes we wait in t catch the da back and kn co dress falli and tied abo a slim think. when we com er is thirty knowing the riages, the younger. Ye the prime of thinness is ounce of stooped and are no signs cies to adorn vestige lef that go to woman to r he is intens other—a look and a hangi stranger wh of the outside

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THE things that annoy you and make you feel sad, You scarcely would notice at all when you're glad; So when you are crossing Life's uneven ground, Look pleasant and wait till the bright side comes 'round.



## The Tragedy of the Farmer's Wife

(From The Delineator)

the greatization.

yet as of the second property of the second p her crushing.

her crushing.

But this typical farm woman! Let
us take a look at her as though she
were a creature seen for the first time were a creature seen for the first time and, therefore, seen with the vividness of a first impression. As representa-tive of a hardware dealer in the ad-jacent town we have called on her husband. It is spring and soon the rattle of the mowing-machine is to be heard in the land. The fields are just beginning to show the tassel of the hardy, and the seen of the con-traction of the control of the hard of the control of the con-trol of the con-trol of the control of the con-trol of the con-t

asks us to dinner and we accept the invitation.

We see the farmer's wife for the first time. It is but a feeting glance as she passes an open doorway, while we wait in the bare sitting-room. We catch the dark hair combed straight back and knotted, then the blue calling the straight of the straight that the straight that the straight of the s Such a slim and gaunt figure, we think. We look at her more closely when we come to the table. This farmthink. We look at her more closely when we come to the table. This farmer is thirty-five years of age, and, knowing the manner of rural marriages, the wife must be two years younger. Yet she looss a woman past the prime of life, and broken. He thinness is appalling. Not her man the prime of life, and broken. He was the prime of life, and broken. He was the prime of life, and broken the was the prime of life, and will be a properly and the was the prime of the form the present of the prime of th

ERE the six millions of farmer's seen her in the railway trains where wives in the U.S. placed in a two seats were turned together and many children sucked striped sticks of candy. We have seen her with the out to make one woman—the typical farm woman—and were she depicted to the people as she is there would be the greatest tragedy of American civilization. same children about the counter in the country grocery. Swarms of her lend a somber element to the gay throngs that turn out in rural com-munities on circus day. Come to think of it, our mothers looked like this when we first remember them in the boyhood days when we were so happy and care-free back on one farm. How thin she has always been! There is a lot to be found out about

this woman, and it is vital to know of

they are not. The consensus of op-inion of the greatest authorities in this country upon farm conditions is to the effect that probably ten per cent. of the farmers are grasping their opportunities for better living in so far as the home is concerned, and that the condition of but ten per cent. of the women is improved. Strange to say, with the vast majority there has come a worse condition with the devel-opment of the farm and the advent of prosperity. The Country Life Com-mission, appointed by the President, has travelled the country over and found this to be a fact. The practical found this to be a fact. The practical men of the Department of Agriculture

nound this to be a rack. It me practical men of the Department of Agriculture state the condition as a fact, it is the simple state of the development of the farm. A young farmer and his wife, for example, went west twenty years ago to carre out for themselves a future in a new land, or moved on to a new farm adjoining those on which they grew up. They were young and strong and courageous and laughed in the face of the difficulties they met. They staked out their farm in the forest primeval and felled the trees and built themselves a cabin. The man labored in the clearing all day and the wife sang merrily about the house. isbored in the clearing all day and the wife sang merrily about the house. Her inside duties were, however, simple and easy and she found plenty of time to make a garden, care for the chickens and often nend a hand in the work of the field. Her task was lighter than her husband's in the fight

ignter than her husband's in the fight against the pioneer conditions.

The husband worked poersitently and the clearing grew. As the years passed, the crops covered a greater and greater acreage, and the harvests brought more money. A large house was built and its care required more

they are the conditions of the average prospectus farm home. The woman's lot is better where there is less prosperty, and is quite simple where there is posently, and is quite simple where there is poretty. But the increase in the production of the farm, in its size, in its wealth, all tend to make the burdens heavier on the woman. This matter of work—toilsome, tedious, monotonous, never-ending work, is the down-crushing burden of the woman of the farm. Setting down the program of the woman's day at her duties may show the work more graphically than anything else. Here it is:

From 4 to 6 a.m.—Breakfast for the men and getting them of to work. they are the conditions of the average

From 4 to 0 a.m.—Dreakfast for the men and getting them off to work. From 6 to 8 a.m.—Washing dishes and milk-buckets and putting away

From 8 to 9 a.m.—Getting child-ren off to school, churning, working

the butter.

From 9 to 10 a.m.—Getting in vegetables, dressing poultry and odd jobs.

From 10 to 12 a.m.—Getting a boiled dinner for the family and hired

From 12 to 1 p.m.—Serving dinner

From 12 to 1 p.m.—Serving dinner and cleaning up.

From 1 to 3 p.m.—Sweeping, cleaning house and making beds.

From 3 to 4 p.m.—Ironing, secubbing and odd jobs.

From 4 to 5 p.m.—Gathering eggs,

care of poultry.

From 5 to 6 p.m.—Getting supper for family and hired men.

From 6 to 7 p.m.—Serving supper

From 7 to 8 p.m.—Serving supper and cleaning up. From 7 to 8 p.m.—Straining milk, washing utensils, preparing for break-

fast.

From 9 to 10 p m.—Mending clothes for children and men folks.

This practically completes the woman's eighteen-hour day, when there are no extras. Interspersed with the other tasks are those of taking care other tasks are those of taking care of two or four small children. There is often extra work, as the washing must be got in some place, the clothes of the children made, fruit in season put up, and extra lunch for the men in the harvest-time prepared, and councies other such possibilities. The countess other such possibilities. Ine-baby may break the mother's rest in brief respite of sleep. There is often-illness in the family, and the burden falls on her. The illness peculiar to women sap her strength, and the bearing or calidren undermines it. Yet the husband, with his man's strength and none of these drains upon it, does not realize that she is doing more than her share.

than her share. Her tasks must be performed three hundred and sixty-five days in the year. The family and the hirred men must be fed on Sunday and holidays. There is no variety in the work as there is with that of the men outside, with the change of seasons. It is the same andless reportors, the with the change of seasons. It is the same endless monotony, the same tasks to be done in the same way. Even the boasted health opportunity of the country is denied her. There is no running water in the house and no sanitation. The refuse decays on or near the premises, and the wife lives always among its odors. Another of the current mistakes about farm life is the belief that it is far healthier than that in the cities.

It is healthy only in proportion to the number of hours that are spent in the fields away from the house. in the fields away from the house. The farm house is a breeder of disease. Dr. Stiles, of the Public Health and Marine Hospital Service, has just made an exhaustive study of rural conditions in the South and reports that there are five million farm people in that section who are physical wrecks from disease caused by lack of avoidable. sanitation.

sanitation.

As a general rule, there are no women who can be employed for work
in farmhouses. Who ever heard of a
farmer who would pay a girl more
than three dollars a week? His mind
is made up to the effect that she is
worth no more, and he will pay no

#### \* Remember Your Friends

Remember Your Friends

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

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

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

her. It is a he who bears the brunt of feeding the multitude for which he farmer is the state of the farmer is a to show the farmer is the shown. It is a useless martyrdom, for it is easily preventable, and for this reason it is especially important that her condition and the causes of it should be known. In the first place you will be told that it is all bosh about the unfavorable conditions on the farm; that the farmers last year raised seven billions of dollars' worth of produce and that they have given themselves the uplift. Conditions are not at all like

able conditions on the farm; that the farmers last year raised seven billions of dollars' worth of produce and that they have given themselves the up-lift. Conditions are not at all like they used to be on the farm, you are told, for these men are now riding in automobiles and running water has been put in the house.

There is a lot of truth in some of your statements, for the farmers have made a great deal of money, and in some communities there are hundreds of conveniently arranged and ideal)

some communities there are hundreds' old, draws the line very closely in of conveniently arranged and ideal, homes on the farms. We are glad you mentioned these ideal homes and that there are so many of them, for they prove the possibilities of farm life. They should be provided for all the farms, and they may be provided, but in the when the fields of California. Yet

the business of keeping the house in order, and the additional burdens had order, and the additional burdens had come so gradually that there was no realization of their increase. Anyway, there was no hired help to be had, for there were no women to hire, of course, it was not the man's work, and the farmer, like the warrior of old, draws the line very closely in

Who ever knew of a girl who would put up with the monotony and isolation and long hours of farm work for three dollars a week when she could get six dollars a week for the asking in town, for less work, where she may have abundance of opportun-

ity for association with her kind! Then there is a sentiment back of it which the women themselves hold and which militates against them. Their mothers ahead of them have handled the tasks of the home, and they are sacred to the wife. She feels that they are hers alone and rather resents the presence of a hired woman in the house. The farmer girls who hire out are young and strong and buxom, while the wife is thin and worn and unattractive. An instinct forbids the presence of the other woman in the

In addition to these naturally accumulating hardships on the farm woman, there are peculiar character-istics of the farmer himself that greatbeen seen, he is averse to turning his hand to anything in the house. In the pioneer was closely days · the line drawn between man's and woman's

(Concluded next week.)

## Resessassassassassassassassas The Upward Look

"If ye then, being evil, know how Tye then, being evil, know now to give good gifts unto your children; how much more shall your heavenly Father give the Holy Spirit to them that ask Him?"—Luke 11; 13.

When we ask God for the gift of His Holy Spirit we should do so erently. We should realize that are asking for the wonderful gift of "power from on high" and we should make certain that make certain that the impulse leads us to ask for it is a worthy one leads us to God. If it that will be pleasing to God. If it is a selfiish motive that impels us then God will not listen to us nor grant our requests

grant our requests.

The one point that we must never lose sight of is that God has promised to give us this great gift if we will but ask Him. It is something that we may all have if we will but do our part and ask for it earnestly and in the right we.

the right way.

What is the gift of the Holy Spirit? It is the gift of power from God to accomplish things that ordinarily accomplish things that ordinarily would not be possible to us. In most cases the Holy Spirit gives us power to lead others to Christ. But! it

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Tone is the most

works in other ways as well for "there are diversities of gifts, but the same Spirit. \* \* But the manifesta-Spirit. But the manifesta-tion of the Spirit given to every man to profit withal. For to one is given by the Spirit the word of wisdom, to another the word of knowledge by another the word of knowledge by the same Spirit. To another faith by the same Spirit. \* \* \* But all these worketh out that one and the self-same Spirit, dividing to every man severally as He will.—(1 Cor. 12:

If we desire to serve God as Christshould and to make our lives ians should and to make our lives fruitful in good works, (we are to be judged by our fruits), then we should ask God for this gift of His Holy Spirit for without it we cannot accomplial anything for His glory. In the spirit of the spirit o give their testimony unto others. (Luke 24: 49). Paul had to wait several days before he was given this power. We should wait and be this power. us to do for Him before we under-take to serve Him even in the most humble way.

We must desire this power in order

We must desire this power in order that we may use it for God's glory. It is a power that even after it has been granted to us, we will lose the second we permit sin to enter our second we permit sin to enter our lives. There are certain definite steps that each of us must take before we can obtain this power. These are described fully in the Bible. We can all take them. What they are will be take them. Wha told later.—I.H.N

. . . About House Furnishing

M. C. Bell, Peterboro Co., Ont.

(Concluded from last week)
Why is it that our boys have no such rooms? Some boys very likely rooms? Some boys very likely, but their number is so small the exception proves the rule have, that a boy is not considered as worth having a room of his own. Ur, if that is putting it rather strongly, that he doesn't care enough about one to make it worth while to fix it up for

Boys are unlike girls in many ways but they like something "all their own" quite as much as their sisters We do not fully realize this fact, do. We do not runy realize this fact, because we take it for granted, from our superficial way of studying our children, that boys have no such desires. We train them to think they must go without any place of their own except one to sleep and keep their clothes in. We treat them very their clothes in. We treat them very much as the farmer treats his cattle, in this respect. We provide a shel-ter for them at night, and the rest of the time they must get along as best they can, on the principle that "anything'll do for a boy."

Now, this is all wrong. If parents were to study their boys a little more,

they would make the discovery that they are not the careless, indifferent creatures they have supposed them to be. They seem to be that because they have been given to understand that they are not considered of much that they are not considered of much account, and this cultivates in them a habit of repression which leaves us in importance of their real natures. The fact is, most parents and the boys of the household, are to a great extent, strangers. It is worth while for fathers and mothers to make an affect the house accounted. effort to become acquainted with them. If we were to make ourselves familiar with their thoughts, we would discover that, in many respects, they are not so unlike girls as we have been in the habit of considering them, and we would speedily arrive at the conclusion that they are entitled to as much consideration as the of the family.

I know of boys who have rooms of their own, and who take much pleas-ure in them. Some of them are fit-ted up in a manner that speaks well

for the taste of the owner. You may not find in them the little feminine atas, and the strumming of cake walktouches which make a girl's room so charming, but there is neatness, orderliness, and an expression of indiverliness, and an expression of individuality growing out of the idea of ownership. There are times when a boy likes to get away by himself to think about some of the little problems of his young life, and with such a room to go to, he feels independent, in a way. It's his room where he intuition are not as the such a trudes on no one, and gets in no one's

Such a room every boy in every home ought to have. But there is another kind of room that ought to be provided for the boys of the family—a workroom, in which a thousand and one things can be done that can-not be taken into the dwelling to do.

... An Attractive Farm Home

We are able to publish in this is-ue, ground plan of the home of Mrs. rank Webster, Victoria Co., Ont. Irs. Webster writes us, as follows,

regarding the plan.
"I like my kitchen very as everything is so convenient. I have no real 'work' pantry, although the no real 'work' pantry, although the closet under the front stairs and off the dining room are nicely shelved, as is also the cellar way from the kitchen. One side of the kitchen is all taken up with drawers for flour, from the

Grand Bleev Pharmer Wateris Co. oatmeal, etc. Above these

drawers, are two shelves for dishes, which are all inclosed. This keeps which are all inclosed. This keeps everything in the culpboards, free from dust. Over the south table in the kitchen, is another cupboard, very handy. I am able to do all my cleaning much easier than if there were eparate pantry.

I have also taken much comfort out I have also taken much comfort our of our down stairs bedroom. I think such a room saves the busy mother a great many steps, especially where there are small children in the family. We have a Happy Thought kitchen

We have a Happy Thought kitchen range. My opinion is that every model farm home, should also have a large sized range boiler attached."
We are pleased to publish the interior arragements of Mrs. Webster's home, particularly her kitchen. We would invite other housekeepers to

send us plans of their homes, together with descriptions of their conveniences .- (Editor).

. . . Study of Music at Home

Marion Dallas, Frontenac Co., Ont. All through the country, in villages and towns, there are young girls and women improving their spare time by the study of music.

Many of these have a teacher com once or perhaps twice a week to guide and inspire them in their work, but sometimes, owing to bad weather, poor roads, or other reasons, weeks elapse between the visits of the teacher. To in such times as these, and to p and enthuse the girls who are help and enthuse the girls who are nobly struggling alone, without the counsel and advice of any teacher but purely for their love of music, this article is written.

The study of music should be under taken with an intelligent comprehension of its beauty and wealth of mel-ody. It should never he studied in ody. It should never be studied in the listless fashion, adopted by so many young people. By that, I mean the careless playing of airs with variaatas, and the strumming of cake walks and popular songs. The object of all study of music is to give ple only to ourselves, but to others.

It must be from the heart. I player must study thoughtfully an earnestness which convinces the listener. Even the simplest times be rendered to give pleasure, but only as the player throws her soul into her music, will she influence her audi-

To thoroughly enjoy the practice music I would recommend the student to master, first, Cumming's book on "Rudiments, and then to turn to Stainer's "Harmony." A study of hamony, although it may seem uninteresting at first, gives an insight into music which can be derived in no other way. It is a great help in memory work. It is not an easy study alone, but many of the teachers and professors in our colleges of music will for a very nominal fee correct exercises (by mail) and give a great deal of

help in that way.

STUDY MUSICAL HISTORY

The study of musical history gives
a glimpse into the inner life of the
maat musicians, and enables one to great musicians, and enables one to interpret some of their thoughts and ideas. Following this, the history of music will teach the student to appreciate music as a great art and especially is this needed in home

study. It opens up a new world, and might inspire the young to make some musical history for Canada themselves, for we know our musical and nationa history is only in its infancy

Whenever great artists Whenever great artists come to your town or near you, go and hear them. Don't be discouraged if they play some of the pieces you are learning better than you do. Remember, although we can not all be artists, we can all do our best. Let the great player be an incharge to work harder and centive to you to work harder and more faithfully.

Set apart so many hours for practice every day, and allow nothing to interfere with your plan. Divide your practice hours. Practice technical expractice hours. Fractice technical exercises, but even in these watch the rhythm or accent. Make a study of time. Practice your pieces slowly. Slow practice is the foundation of all good piane or organ playing. Learn to practice not long, but thoroughly, and keep the mind and fingers under

Learn to memorize each piece thoroughly. When the first piece has been mastered, you will find the second much easier. It is really distressing to spend an evening in company with perhaps twenty young ladies (many of whom you know are paying out hard earned money to colleges and teach ers), when a request is made for some ers), when a request is made for some music, to hear one girl after another refuse, saying, "Oh, I can't play with-out my music." After hard coaking some girl is prevailed upon to play "something," and it is usually just a "something."

Play every time you get an oppor-tunity; play for father and mother—study some of father's old favor--study some of rather's old favor-ities and play them as carefully as if you had a large audience. Seize every chance to play before an audi-ence. Much of our poor music is largely the result of nervousness and lack of memory training. cure for nervousness is constant appearance in public. An excellent way for a piano player to gain confidence is by duet playing and playing ac-companiments. In this way you feel you are not alone, but unless you do your part well the performance will be a failure.

Another thing in your practice, include the study of simple hymns. The other night I heard of a meeting of seventy-five people, when the chairman asked for a volunteer pianist No one responded. He repeated his request three times, and finally started

the devotion was spoiled. cumstance to sent, she sai bothered do require st times we fin Surely it pa giving a litt for the time Love your self. What ure can be forte while y lost to all els dies and harr

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the hym. Of course, the result was, the devotional part of the meeting was spoiled. In speaking of the circumstance to one lady who was present, she said, "Well, I never could be bothered studying hymns." They do require study, and in many of our tunes we find a wealth of harmony. Surely it pays. The satisfaction of giving a little pleasure amply repays for the time spent.

Love your work and believe in yourself. What a satisfaction and pleasure can be derived from the pianoforte while you pursue your studies, lost to all else save the beautiful melodies and harmony. The sense of growing power gives us keenest pleasure as we study the compositions of the masters. New beauties gradually mission of mission o

"Let knowledge grow from more to

But more of reverence in us dwell,
That mind and soul according well,
May make one music as before."

—Tennyson.

## \*\*\*\*\*\*\*\*\*\* OUR HOME CLUB

THE MONEY QUESTION

"Aunt Faithie" has spoken of the money question. I have made observations there, too. I know a family where the soms, though nearly between the soms, though nearly where the soms, though nearly where the soms, though nearly where the soms, though nearly the content of the content of the content of the content of the question. The content of the question of the que money and take time for the necessary refinements to broaden one's nature seem almost impossible and conditions such as we see around us every day cannot train boys to help make those ideal homes our Women's Institute women are trying to prepare their daughters for,—"DoL."

THE SPIRIT OF CHRISTMAS

All the members and readers of the Home Club are wishing away down in their hearts for the wealth of King Midas as we realize that Christmas is fast approaching. We think of all the people we could make happy with gifts. Many of us can only wish. Because we cannot give costly things, are there not other could be compared to the could be could

We are richer than we think. If
the truth were known, we all possess
something for which others crave. I
do not mean money—money without
the love of the giver is far from the
spirit of Christmas.

In the hustle and preparation for
Christmas we often forget the little
things that give a sweetness to life.
If you have a sympathetic nature,
all around there are hearts aching
for sympathy. Given to one of these,
many are longing to be someone's
friend. Perhaps you always find sun,
shine in your life. Many think their
sky forever overcast. Turn on the
lights for some of these.
You know just when to say the
right word. Say it out firmly and
kindly. Men have gone under for
the lack of encouragement at the proper
time. This may not be the right
word in the right place, but I am
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again.

We may not have money, but we have looks others would like to read. Let us share our blessings. We will be happier, we need not wait till Christmas but begin to practise right now for Christmas, keep it up—all next year.—"The Pastor's Wife."

THE SECOND WIFE

next year.—'The Pastor's Wife.'

THE SECOND WIFE

I have read with much interest the different letters in our Home Club column from week to week and after each perusal have determined to write a few lines, but so far have failed. The different questions have a few lines, but so far have failed. The different questions have all been the failed of the different questions have a few weeks ago brought quite vividly to my mind the unevenness of the material things of this life. Why should a husband have the sole right to dispose of the property money, etc., which his wife has helped earn and save? Take for instance a farmer; he begins with very little in life, explain and save together leave with the same a nice farm clear and a little money in the bank. The wife takes sick and dies without being able to say, "Distinct our boy." She has no power to will it thus. But let the husband dewithout being able to say, "Distinct our boy." She has no power to will it thus. But let the husband distillation of the distinct of the wife departs first, the husband will as soon as it seems seemly, choose another life partner and unless she is a just woman, the first wife's hard earned money win not be seen by her children.

I man children and will be if we women insist on it. It is a very unjust law to be in force in this enlightened age.

Perhaps when the "Doctor" becomes Premier and the "Father" a member of our Dominion Parliament, we will look for great advantages to the weaker sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex. Hasten the day!—"Worther" in the search of the warder sex.

Use cast-off suspenders for making weather strips for doors and windows. They may also be put to economisal use by sewing them across the ends of carpets, matting, or rugs, which will keep them straight and firm at the same time protecting the ends from

# **CLUBBING OFFERS** THAT WILL INTEREST YOU



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Designs illustrated in this column will be furnished for 10 common will be furnished for 10 common will be furnished for 10 common will confer a favor by writing the second of the furnishing for same possible after request is received.



ce. Both the pointed sections, for the bib, the centre section extends above the waist line. The round agrons are made in one piece each, and agrons are made in one piece each, and cated lines. Ties and a belt finish the upper edges of all.

The pattern 6480 is cut in one size only and will be mailed on receipt of 10 ets. aprons are cut in

with trimming



ign for an embroidered border suitable for large collars, frills, cushion covers and decorative objects of the kind, especially adapted to a sailor collar.

Three yards and six corners are given, four of which are especially suited to the sailor collar of May Manton pattern 6266, two of which are right angle corners suitable for the cuffs and for any corners of the sort. The scallops are designed to be padded and buttonholed and the dots to be worked either in solid embroidery or as eye-



Space Saving Cupboard

For a good cheap kitchen cupboard this design was carried out at a total cost of one dollar and eighty cents. We have a small kitchen and require every inch of available space, hence the necessity of having something that could be built up against the wall in some corner, taking up a space or only about ten inches by three and one half feet. In this case there were already two common shelves up, fast-



ened to the wall about five feet from the floor and draped with curtains. The cupboard was built directly beneath them, the curtains coming down and covering the top shelves of the cupboard. It a little care is taken in the work, you will have a sightly piece of furniture that has the appearance of solidity and of being built with the louse. The bottom compartments are large and give a good space for the unsightly utensils, such as frying and dish pans, coal-oil and gasoline cans, etc., which are always hard to find a suitable place for.

## A Boy's Bad Temper

The boy with a temper is the boy who has had rough handling at home. He is like a horse that has been in the care of a stable-boy.

The boy with a temper is the boy who has been fretted There is the type of child with a temper who has been spoiled by indulgence; who learned before he was two wars old that he could be the was two years old that he could have things that he wanted if he cried with enough persistency and with good vocalization. In extreme cases he held his breath. But such a boy has always abandoned this policy for public service long before he reaches a second

What he needs is an association, steady and cool, which will serve him as a lightning conductor. He needs to see others keep cool when times are hot. He will learn one habit, as he has the other, from the people with whom he is. "Children," Mrs Wiggs would say, "are like bastings. You take out what you put in."—The New Idea Magazine.

N N N Have you won any of our new pre miums? If not, better send for Premium List at once.



Price \$0.50—delivered at any railway ation in Ontario or Quebec. Write for free booklet.

Dowswell Manufacturing Co. Limited.

## \*\*\*\*\*\*\*\*\*\*\*\*\* THE COOK'S CORNER

Our New Cook Book free for only two new subscriptions,

### The Baking of Bread

In the baking of bread, you want a very hot oven, about 400 degrees. When you open the oven door, you want the air to feel hot to you, The want the air to feel hot to you. The yeast plant has to be killed, and if your oven is not hot enough (as sometimes in the summer) it will be sour in the middle. The bread wants to continue rising about 15 minutes after you put it in the oven, until it is about two inches above the tin, so that you will have a nice, rounding loaf. The loaf wants to rise about its bulk before you put it in the oven. It is better before you put it in the oven to prick it with a silver fork, so that it will rise evenly.

so that it will rise evenly.
After being in the oven about five
minutes, if you find it is not rising
perfectly smooth and nice, turn it
around. If it begins to brown too
quickly, check your heat. It should
not begin to brown before 15 or 20 minutes.

COOLING BREAD

Always take bread out of the pans to cool at once, for if you don't it will sweat. Cake racks are very nice to cool bread on. Never put bread on boards. If you don't happen to have a cake rack, simply turn over a couple a cake rack, simply turn over a coape of your bread tins, and stand the bread against the edge. Spread a lit-tle butter on the crust, not enough to make it greasy, but to keep the crust nice and smooth.

SCALLOPED HAM

Chop fine two hard boiled eggs. Chop fine cold lean boiled ham; there should be one half cupful. Roll common crackers—there should be two thirds of a cupful-and add two thirds of a cuprul—and added three tablespoonfuls of butter, stirring lightly with a fork when mixing, that the crumbs may be evenly coated and light rather than compact. Then have at hand one and one half cupfuls of white sauce. Sprink-le the bottom of a buttered baking dish with crumbs, cover with one half the eggs, eggs with one half the sauce, and sauce with one half the ham; repeat, then cover with re-maining crumbs. Place on the cen-tre grate of the oven, and bake until the crumbs are brown.

For the white sauce, put three tablespoonfuls of butter in a granite tablespoonfuls of butter in a granite-ware sauce pan, and stir until melted and bubbing; then add three table-spoonfuls of flour, and stir until well blended, Pour on gradually, while stirring constantly, one and one half cupfuls of scaided milk, using the little wire whisk of whoch I so often write. Bring to the boiling point, and season with one fourth of a tea-spoonful of salt.

APPLE MULD

Simmer 1½ lbs. sugar with 3 lbs. sliced apples and the juice and grated rind of 3 lemons. When thick pour into a wet mold, and let stand till cold. When ready to serve, turn it over and serve with cream.

CODDLED APPLES

The early apples are best for this. Pare and core them, allowing to each 1/2 pk a scant pt of brown sugar, and 1/2 pt of water. Cover and simmer till tender.

... Most cakes, sponge cake especially, are done when they stop "singing." Place your ear close to a half-baked cake and listen, and you will soon de-

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* The Sewing Room

Patterns 10 each. Order by numer and size. If for children, give next for adulta, give bust measure or address all orders to the Pattern Department.

BLOUSE WITH VEST 6488



The blouse gives a vest effect is gives a vest effect is always smart. The essential feature is found in the cut of the front and the vest effect. The rib-bon bow is fashion able but not essen-tial.

Material required for medium size is 4 yds 24 or 27, 3% yds 32 or 1% yds 44 in wide with 12 yds of

banding.

The pattern is cur
for a 32, 34, 35, 35 and
40 in bust and will be ailed on receipt

BOY'S BATH ROBE 6504.



This bath robe simple, roomy and satisfactory, and can be made of such ma terial as bordere flannel, a blanket, from flannelette of from other material The robe is made in one piece. It is fin ished with hems at

the front edges and is laid in one plais at each side of the front. Material require for medium size (14 yrs) is 4 yds 27, 3 yds 44 or 21/4 yds 52 is

wide The pattern is cur for boys of 10, 12, 14 and 16 yrs of age and will be mailed on receipt of 10 cts

STRAIGHT PLAITED SKIRT WITH POINTED DRAPERY 6487.



Short draperies are fashionable just not and this one is ex tremely becoming. I is arranged OVE plaited skirt and plaited skirt and the skirt is attached to smoothly fitted yoke. It can be made either with a slightly raised or the natura waist line.

The skirt consist of the founds or

the foundat or the plaited portion and the drapery. The foundation is gored and snugly fit-

for medium size is 6½ yds 26 or 27. %; yds 44 or 57 in wide, with 1 yd 27 is wide for the bands.

The pattern is cut for a 22, 24, 25, 3 and 30 in walst and will be mailed on receipt of 10 set.

GIRL'S KIMONO 6497



Simple kimonos ar always the This one can made with or out a seam at back and e th back and either short or long as liked. One of the Japanese crope trimmed with ribbot makes the one illustrated.

Material require for medium size
for medium size
yrs) is 5¼ yds 24
27, 3% yds 32 or 44
wide with 1¼ yds
any width, or 4 of ribbon 4½ in of for bands.

The pattern is for girls of 6, 8 and 12 yrs of and will be ma be

December

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NO COLCHE LOWER TRUI a peculiar fay was for and July. ; root see germinate ed up and yield was turnip crop bushels to t this province avorable years, specess here. Nover the fact of all kinds so

The Ho COLLEGE ST., STORONTO.

REMEMBER ents Cannot ment is Treat

The Hospital ar in its cots



TWO CLUB FOOT IN PLASTER se unable to If you know any child in neighborhood v is sick or has deformity send to the Secretar

Sick Children is local but a g Provincial Cha for the sick chi the poor man in



Just think o straightening t

Please Send Robertson, C Davidson, Se for Siek Child

THIS APPEAL

INTO HEAD PEAL

STORY ONLY

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The Hospital for Treatment is Treated Free.

The Hospital for Treatment is Treated Free.

The Hospital for Sick Children

The Hospital for Treatment is Treated Free.

The Hospital for Sick Children had lawyer in its cots and beds 1,159 patients. Sick beds and states are to take their proper to many only the proportion of the single single

Since its organization the Institution TWO CLUB FOOT CASES has treated 15,613 in PLASTER. children; 11,550 of these unable to pay and were treated free if you know of

within the

were 69

If you know of any child in your neighborhood who is sick or has any

deformity send the name of the parent to the Secretary.
The Hospital for Sick Children is not

a local but a great Provincial Charity for the sick child of the poor man in any GOING HOME IN A WEEK

part of Ontario has same claim upon its help shadow of its walls in Toronto.

cases of Club Feet treated in the Hospi massaging a Patient. the Hospital last year and 67 had perfect correction.



Just think of it—Your money can help the Hospital to do the good work of straightening the crooked limbs and club feet of little children. Please help us.

Please Send Contributions to J. Ross Robertson, Chairman, or to Douglas Davidson, Sec.-Treas., The Hospital for Sick Children, College St., Toronto.

ONTARIO

DURHAM CO., ONT.

DURHAM CO., ONT.
BLACKSTOCK.—Winter seems to hvvo one more than the property of the property o

NORFOLK CO., ONT.

NORPOLK Co., ONT.

SOUTH WALSINGHAM—The passing of November, left our level-headed, up-to-date farmers with their farm work in good condition. Corn is busked and put away late witter storage. Clever thresh ways in the storage of the passing of th

WELLINGTON CO., ONT.

ELORA—The rain and ice storm was one of the most destructive in the memson of the most destructive in the memlage has been a week without electric light. The telephone, both urban and rural, has been a week out of business, and the loss to the company must have been great. In the country, the loss to

## LIVE 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

\$7.75 a Cwt. FOR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH, - HULL, -

farmers will be considerable, many of the

farmers will be considerable, many of the farms having their front adorned with large maples, and three have suffered gests the advisability of planting young trees between, and then removing the larger and unsightly ones. Most of the cattle suitable for the Christmas marand this state of things has encouraged feeders to invest in dear stock, which after a month or two may not look like a profitable investment—G. W. on Monday, November list, did great harm to trees, also to the telephone lines. There are a great number of auction sales this fall, some of which are due to the number of the state o

MIDDLESEX CO., ONT.

MIDDLESER CO., ONI.

BYRON.—Much labor is being expended on the roads in cutting down hills, and filling up the lower places. Several concrete and steel bridges are also in course of construction. These needed improvements will add greatly to the value of the propetry and add to the convenience of the propetry and add to the convenience of the people.—J. E. O.

snee of the people.—J. E. O.
TEMPO.—More than 100 years ago, Sir
Rhomas Talbot, an old country gentleman, secured a grant of land from the
man, secured as grant of land from the
strength of the secure of the secure of the
cluded Middlesex and Elgin Countes. Now
Sir Thomas brought from his old home,
"Malahide Castle." Ireland, among many
other things, some small apple trees
the shores of Lake Brie, an ideal situation, and, of course, some began to produce fruit. When the carly settlers went
up there to secure their lost, or later on
a few apples. He also gave them explicit
instructions to save, and plant the seeds.
The settlers did so, and thus saw their
orchards blooming and bearing fruit,
from 50 years down, there has not been
any scarcity of apples all around here.
The first fruit produced was only natural
varieties, but on account of being grown
large and juley. These old orchards are
all gone and have been replaced by the
newer and more up-to-date varieties, the
ord varieties were in their day.—J. E. O.

GREY CO., ONT. TEMPO.-More than 100 years ago, Sir

DISPERSION SALE OF HOLSTEINS

DISPERSION SALE OF MOISTEINS
We would call attention to the Dispersion sale of Holstein cattle of Mr. Andrew
Boa of Genoa, Argenteall Co., Province
of Quebec, who is disposing of a firstclass lot of well bred Holstein on Thursday "December Erd, 199. The foundation
Bryce of Tillsoburg, Ont., who is a well
known and reputed breeder of Holsteins.
Mr. Boa has been a breeder of pure-bred
stock for the past ten years, and a successful competitor at the Central Canada
Exhibition and the local
Cows of any breed at the best six
cows of any breed at the Argenteuil
Fair of 1999.

won the sweepstakes for the best six cows of any breed at the Argenteuil Fair of 1909.

BUYING A DAIRY BULL
It is an old saying that the buil is half the nerd, and the saying and potency into the property of the saying that the buil is half the nerd, and the saying and potency into the saying the

varieties, but on account of being grown on the rich virgin soit, the applies grown large and juley. These old orchards are newer and more up-to-date varieties, though no more appreciated than the old varieties were in their day.—J. E. O.

GREY CO, ONT.

MAPIGE LAKE—Although October was very fine and gave good opportunity to get plowing and Lef rape had good customer of the properties of the p

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1900

888. SH 6488 ouse that est effect is nart. The feature the cut of t and the t. The rib-is fashion-not essen-

required m size is 4 27, 3% yds g yds 44 in 12 yds of tern is cm 4, 36, 38 and and will be receipt of 504.

th robe is comy and y, and can of such maof such ma-bordered blanket, or nnelette or r material. s is made in It is fin h hems at edges and one plait side of the

l required im size (14 ds 27, 5 yds yds 52 in of 10, 12, 14 ors of age, be mailed t of 10 cts

T WITH are very e just now one is ex-ecoming. It ed over a irt and this made eit a slight the natur

irt eor foundation d portion drapery. snugly fit

l required or 27, 4% l yd 27 in 1, 24, 25, 3 ailed on re-

imonos are the can d or am at the

long as vith rib one illu

m size yds 24 32 or 44 11/4 yds or - 4½ in v

tern is cut of 6, 8, 16 rs of age be mailed of 10 ets.

Tronto, December (th. 1996. — Trade as the vinter ports are open. The local generally continues to assume its steady and healthy character. Wholesale houses report a fairly active business, although at this season it usually takes on a quiet at this season it usually takes on a quiet holiday appearance, when stock taking opholiday oph at this season it usually takes on a quiet holiday appearance, when stock taking op-erations are in order. In many lines some they have ever had and prices have been well maintained. The retail trade over the country is every active just now and a splendid holiday business in in prospect. Money keeps in fair demand for mereantile purposes. Banks seem to curity is good timels, so long at the se-curity is good timels, so long at the seis good.

WHEAT There were some sharp fluctuations in the speculative wheat market during the week, Chicago dropping four cents from the week previous. But one cannot gauge the situation by the antics of the specu-lator alone. Conditions are magnified one the situation by the antice or the speculator alone. Conditions are magnified one way or the other to suit his purposes. At better, owing to firmer challenges of the news of the rainy weather in the Argentine. The big railway strike in the United States has been somewhat of a factor, as it has prevented as much wheat the strike of the s ments before navigation closes. Locally there is not much change in the situation and quotations here rule at \$104 to \$1.65 for Ontario winter wheat outside. On Toronto farmers' market fa'l w'ert sells at \$1.06 to \$1.07 and gorse at \$1.04 a

COARSE GRAINS

COARSE GRAINS
The oal market has a firmer tendency. At the end of the week western oats were firm at \$25\circ to \$3\circ to talk on the contrade and \$3\circ to \$3\circ to talk on the contrade and \$3\circ to \$3

FEEDS

There is a firmer feeling in bran though quotations show little chenge from a week ago. At Montreal Manuitobs bran is quoted at \$19 to \$20 and shorts at \$21 and shorts at the most of \$20 to \$20 to \$20 and shorts at \$21 and shorts at them \$25 to \$4 to nin bags in car lots on track Toronto. The corn market rules steady. American corn is quoted at Montreal at 705 to 72 in car lots. Desires here quote American corn is quoted at Montreal at 705 to 72 to 12 and 72 to 72 to 72 to 73 and 74 to 75 to 75

HAY AND STRAW

The hay market keeps active under good local and export demand. At I treal the export trade is rather qu At Mon owing to the close of navigation, though things will likely pick up again as soon

PIGS. PIGS. PIGS.

Pigs Given Away"

Any standard breed you like. For a few hours' work

Send us 7 New Yearly Subscriptions for Farm and Dairy at \$1 each.

Write Circulation Department FARM AND DAIRY PETERBORO - ONT.

to 89 a ton.
POTATOES AND BEANS The Dominion Government's estimate of 99,087,200 bushels as this year's yield of potatoes, as compared with a yield of 25,297,200 bushels more than in 1908, shows, that there are plenty of potatoes in the country, and that potatoes are not likely country, and that potatoes are not likely to go much higher. Prices to day are from 20e to 25e a bag lower than at this time last year. At Montreal Ontario and Quebec potatoes are quoted at 50e to 55e and New Brunswicks at 55c to 60e a bag in car lots there. The market is dull here under a weak demand and large receipts. Ontarios are quoted at 45e to 56e a bag in car lots on track here. On 70r a bag in car lots on track here. a bag in car lots on track here. On Toronto farmers' market potatos sell at 56 to 75c a bag. The demand for new Ontario beaus, all Montreal is somewhat limited and are quoted at \$1,82%, to \$1,85 a bhushel in car lots there for three pound pickers. Dealers here quote beans to the trade at \$1,75 to \$1,80 for primes and \$1,95 to \$2 a bushel for hand picked.

to \$2 a bushel for hand picked.

E665 AND FOULTRY
The egg market continues very firm. Receipts continue light with few new land
finding their way to market. What receipts are arriving in Montreal are quoted
at \$26\$ to \$56\$ a dozen wholesale. Fresh
gathered stock, which must not be classed
at wholesale way and the set of \$56\$
in a wholesale way and the set of \$56\$
in a wholesale way and the set of \$56\$
in a wholesale way and \$56\$
in a wholesal 30c to 35c a dozen.

Receipts of dressed poultry are reported december of dressed pointry are reported light at Montreal and the market rules firm at 17c for turkeys; 13c to 14c for chickens; 19c to 11c for fowl; 13c to 14c for ducks and 12c to 13c a lb. for ge-se for ducks and \$2c to \$16c a. bh. for genes in a wholesale way. Trade here is on the slow side owing largely to the character of the receipts coming in. They are for the most part of poor quality. Wholesale the slowest part of poor quality. Wholesale as 1b; ducks, 1b to \$12c; see \$1.0 \text{c}\$ could be a big ducks. It to \$12c; see \$1.0 \text{c}\$ could be \$1.0 \tex

APPLES

Canadian apples continue to bring good orices in the Old Country market, and shippers are well satisfied with the re-turus, which have in some cases netted \$4.35 to \$4.35 for straight No. 1s, and \$5.50 for other quality. Apples sell on Toron'o 'armers' market at \$1.59 to \$5.36 a bbt. DAIRY PRODUCTS

The cheese market rules quiet but firm Business as usual is quiet at the close c' navigation and as most of the stocks are Business as usual is quiet at the close c-vanvigation and as most of the stocks are now out of factory men's hands, things are quiet. About all the local cheese boards have closed down for the seeson. Novembers sold at some of the markets during the week at 19% a 1b. Dealers here quote cheese to the trade at 12% of the control of the control of the control of the There are the control of the control of the prices are firmer and higher. Fresh made creamery is quoted at 25% to 25% and summer makes higher. Good cream-

made creamery is quoted at 28%c to 25 and a summer makes higher. Good cream cry prints are in demand here. Larg drivy rolls are in larger supply. Whole drivy rolls are in larger supply. Whole 25c: choice dairy prints, 26c to 28c: separator prints, 26c to 28c: choice dairy prints, 26c to 28c: choice dairy prints, 26c to 28c: choice dairy prints, 26c to 28c: large rolls, 26c to 28c: large rolls,

HORSE MARKET

HORSE MARKET
While the horse market continues on
the dull side, there is every prospect that
the winter's business will open up earlier
than last year. There is an improved
than last year. There is an improved
trade is more active and any
trade is more active and any
trade is more active and of 1300 to 1400
lbs. each. Quotations at the Horse Exchange. Union Stock Yards, are about as
change. Union Stock Yards, are about as
the active change. The presence, 1810
to 1810; expressors, 1810
to 1810; expressors,

to \$200; drivers, \$100 to \$160, and service-ably sound horses, \$15 to \$60 each. LIVE STOCK.

Live stock receipts keep up well for this season of the year and are ahead of last year at this date. Many common and or-dinary cattle continue to find their way to market and comparatively few of the godd kind. Trade, however, continues good and everything last week sold read-

godd kind. Trade, however, continues good and everything last week sold read liy though receipts were large. The export cattle trade is practically over for this season. What few are a riverse of the export cattle trade is practically over for this season. What few are a riverse count, though some western cattle count, though some western cattle continue to go forward to the Old Country, (Unutations hold steady at 8575 to 85 for good to choice steers, 85 to 85.05 for fair common. Export heifers sell at 85 to 85.05; cows at 84 to 84.50, and export bulls at 83.50 to 85 acut. The big trade is in butchers, cattle and The big trade is in butchers, at the and The big trade is in butchers, at the and the export bulls at 85.05 to 85.05; medium at week. At the city market on Thursday picked butchers sold at 85 to 85.55; medium at 95 country of good cattle at 85 to 85.55; medium at 95 country of good cattle at 85 to 85.55; medium at 95 country of good cattle at 85 to 85.55; medium at 17 rade in stockers and feeders continues. Practice of the stockers and feeders continues. The best steers, 900 to 1000 lbs. cach, are quoted at 84 to 84.05; best steers, 800 to 900 lbs, at 83.75 to 84.15, best steers, 800 to 900 lbs, at 83.75 to 84.15, best steers, 800 to 900 lbs, at 83.75 to 84.05 and cach, are quoted at 84 to 84.05; best steers, 800 to 900 lbs, at 83.75 to 84.15, best steers, 800 to 100 to 700 lbs. cach, are squared at 82.00 to 83.00 cannot continue to 900 lbs, at 83.75 to 84.05 and 1000 lbs. cach, are quoted at 84 to 84.05; best steers, 800 to 100 to 700 lbs. cach, at 83.01 to 83.01 cannot cannot cache at 82.00 to 83.00 cache. The property of the

There is a keen demand for milk cows. and the top prices of the season were reached at the city market on Tuesday, when a grade Shorthorn sold for Stol There is a demand from Montreat, Quebec There is a demand from Montreal, quebec and other points east which keeps up tie price. On Thursday milch cows soid at \$35 to \$75 each, and all went off quickly. Hogs are higher than a week ago. On Thursday dealers quoted the market firm at \$7.69 to \$7.575, fed and watered on the market firm, and \$7.60 to \$7.55 f.c.b. at market here, and \$7.60 to \$7.55 f.c.b. at Condon cable of Dec. 2nd, quo bulletin's London cable of Dec. 2nd, quo bulletin's London cable of Dec. 2nd, quo bulletin's a follows: "The market is uncha sped, and quotations range from 65s to \$9s."

SEED MARKET

SEED MARKET

J. A. Simmers, Toronto, Ont., quotes the seed market as follows: Red elever, steady at 47.75 to 88.29 a hush, for good to choic esced. There is considerable seed offered the past few days and more is in sg. 1. hin was apparent a while ago. Alsiko, quiet, at 86.25 to 86.75 a bish, and or-fering freely. Timothy seed, none offered at present.

MONTREAL HOG MARKET

Montreal, Saturday, December 3rd.—The market here for live hogs this week has een steady with prices practically un-manged from last week, dealers paying 825 to 8850 a cwt. for selected lots veighed off cars. The offerings were fair-ty of the company of the c Dressed hogs are meeting with a fair demand at good prices which are steadily maintained at \$11.25 to \$11.50 a cwt for fresh killed abattoir stock.

EXPORT BUTTER AND CHEESE With navigation from Montreal closed for the season a statement showing the shipments to all ports from Montreal and Quebec for 1999, as compared with 1968, should be interesting:

CHEESE

Bristol

786,824

| Newcastle            | 15,070    | 6,848      |
|----------------------|-----------|------------|
| Leith                | 47,836    | 57,497     |
| Huil                 | 5,134     | 2,474      |
| Dundee               | 4,428     | 1.685      |
| Belfast              | 6,525     | 1,575      |
| Aberdeen             | 1,345     | 2,181      |
| South Africa         | 1,083     | 1,051      |
| Liverpool via Quebec | 13,960    | 62,202     |
|                      | 1.889,140 | 1,847,898  |
| BUTTER               | 100212-10 | 210.111020 |
|                      | 1909.     | 1908.      |
| Liverpool            | 2,401     | 6.677      |
| London               | 7,572     | 26.371     |
| Bristol              | 25,220    | 53,476     |
| Glasgow              | 3,376     | 5,294      |
| Manchester           | 700       | 0,024      |
| South Africa         |           |            |

39,505 93.416 These figures show an increase in the total shipment this season of about 42,000 boxes, and as the output in Canada this season shows an increase to the extent of about 50,000 boxes, the stock still in

THE BEST LINIMENT OR PAIN KILLER FOR THE HUMAN BODY

Gombault's Caustic Balsam IT HAS NO EQUAL

ing, soothing and healing, and for all old the Sores, Bruises, or Wounds, Felons, Exterior Cancers, Roile Human Corns and GAUSTIC BALSAM has Body no equal

We would say to all who buy it that it does who buy it that it does not contain a particle of poisonous substance and therefore no harm can result from its external use. Persistent, thorough use will cure many old or chronic allments and it can be used on any case that requires an oetward as plication with perfect safety.

Sore Throat Chest Cold Backache Neuralgia Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism all Stiff Joints

Perfectly Safe

Reliable Remed

REMOVES THE SORENESS-STRENGTHENS MUSCLE COTNILL, Ter\_-"One bottle Gaussie Beissem did my rheumstem more good than \$120.00 paid in dector's bill."

OTO A. EKVER.
Price \$1.60 per bottle. Said by druggiste, or sen by us express prepaid. Write for Bookle R.
The LAWRENCE-WILLIAMS COMPANY, Tercente, Can

store on this side is practically the same last year.
The export trade in butter is rapidly

The export trade in butter is rapidly disappearing, as witness the shipments as compared with last year. In 196 w: shipped from Canada to Great Britain 351,400 boxes of butter. All this butter is now required for the consumers in Canada, the consumption of butter in thi country having increased enormously during the past few years.

HOLSTEIN-FRIESIAN NEWS

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

RECORDS OF HOLSTEIN-PRIESIAN COVS

In the last issue of the American official reports, special attention is called on la reports, special attention is called on la reports, special attention is called on the latential reports of the showing made by the Holstein-Priesin breed with the latential reports of the showing made by the Holstein-Priesin breed with the latential reports of the latential RECORDS OF HOLSTEIN-FRIESIAN COWS

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER MANUFACTURING COMPANY wants man to sell direct to farmers. Quick seller. Every farmer wants one; 70 per cent. profit. Experience valuable but unnecessary. Postal to-day brings particulars. G. Olarke, Sarnia, Oct.

.898

O. CHARTAN, CHARTAN, COLL.

AGENTS make big money selling "Vol-Pock." Granite Gement. Mends holes in Graniteware, Iron, Agate, Tinware, etc. Mends a hole in one minute. Every housewife buya. Greatest seller on the monates. Agente make over 100 per cent.

Profits.—M. Nagie, Westmount, Que

FOR SALE.—Seven months old registered Shire stud colt, by imported stock.—M. W. Sexsmith, Ridgeway.

FOR SALE.—Tron pipe for water and steam, all sizes and lengths; also pileys, belting, shatting, etc., cheap; write for free list, stating what you need. Imp. Waste and Metal Co., 11 Queen St., Montreal.

als was 2 dbs. of b of milk, No breed Holstein-F The cows in orable me r 18 lbs. o De Kol, milk; W fat from k, 18.671 lb hanna De l fat from 2nd's Free milk, The Pietertie M fat from 511.4 ery 2nd, 17.047 ding secon or-year class Mechthilde, 16 milk, with Ca lbs fat from Sixteen poun steemed a go ow: and the s sue have thr mount: Mutu ng 16.843 lbs. Princess of O

Decemb

DI ( Andrey DAY, DEC Holstein-F

Parties come to t previous t AND.

Of 4

On T Twenty lls, Sir butter Caledo omas E

To wh J. W

Dis Implemen HESPELE

Among side. REG days; Cot ada, dam' ing over ' Canada, n day, 63 lb bull in C best day's strains wi ity to bu ers can g

TERMi interest Farm stations. logues on JAMES

MENT

40.5 lbs. milk and Velox Overlooper, 16.163 lbs fat from 497.8 lbs. milk. The Junior three-year-olds have in the lead Maggle Diantha De Kol, 15.733 lbs. fat from 375.1 lbs. milk, and Mabel Johanna Pieterio De Kol, 15.194 lbs. fat from 40.2 lbs. milk; while the best showing among the service while the best showing among the service will be the service of the servic

giimals was 2,4446 lbs. of milk containing 2 46s. of butter-fat; equivalent to 81.5 lbs. fat from 97.2 lbs. milk. The Junior to No breed of dairy and the fatter per late. No breed of dairy and the fatter per late. No breed of dairy and the fatter per late. No breed of dairy and the fatter per late. No breed of dairy and the fatter per late. The fatter per late is the follation-friend and sever been also show such averages.

He follation-friendan, has ever been also shows such averages. The cows in the full aged class gaining the mortion by a production of the follation of the fatter per late. The follation of t

PAMWORTH AND BERKSHIRE SWINE,— Roars and sows for sale. J. W. Todd, Corinth, Ont. Maple Leaf Stock Farm.

SUNNYSIDE STOCK FARM Chester White Swine. Shropshire Sheep and Mammoth Bronze Turkeys of the choicest breeding for sale at all times. Apply to W. E. WRIGHT, O.3.3.10 Glanworth, Ont. Proprietor

#### AYRSHIRES

AYRSHIRES, — Becord of Performance work a specialty; young bulls from E. of P. cows, and cows that will go on at next freshening. Milk reports of dams, for everything.

JAMES BEGG, Box 88, St. Thon

### FOR SALE—AYRSHIRE BULLS

From one month to two years old; all bred from large, good-milking stock. Also Yorkshire pigs. Apply to DANIEL WATT OR TO HON. W. OWENS, Manager, Proprietor, 8-5-19-10 Riverside Farm, Montebello, Que.

"La Bols de la Roches" Stock Farm

Here are kept the cholest strains of ATRIBURES, imported and home bred. ATRIBURES imported and home bred. The strains of ATRIBURES AND A

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

ROBT. HUNTER & SONS
Maxville, Ont.
8-7-1-10

Long Distance Phone.

HAVING JUNE AND AVESHIRES
HAVING JUNE LANGE STATE AND AVESTIGATION OF THE STATE AND AVESTIGATION R. NESS, Howick, Que.

AYRSHIRE CALVES FOR SALE

RECORD OF PERFORMANCE COWS

PRICE: \$35 when one month eld

GUS. LANGELIER
Cap Rouge, Que.

CHERRY BANK STOCK FARM CHERRY BARK SIUUR FARM
FOR SALE.—Bulk calves, sired by Netherhall Milkman, the champion ball of
Canada. One bull calf two weeks old,
sired by Morton Mains Queechy, Junior
Champion at Toronto. 1988, and by NethChampion at Toronto. 1988, and by NethChampion at Toronto. 1988, and by Nethsired Champion at Toronto. 1988, and by Nethsired Champion at Toronto. 1988, and by Nethsired Champion at the Champio

P. D. McARTHUR, North Georgetown, Jowick Station (-6-23-10

### HOLSTEINS

## MAPLE LEAF STOCK FARM GORDON H. MANHARD Manhard, Ontario Breeder of Choice Holstein-Friesian Cattle.

At present I will sell 20 young cows, due to freshen in the early part of the winter. Also a few young bulls. E-11-3-10

FOR SALS, HOLSTEIN BULL CALF
Born, Dec. 31. Dam's official record at
three years of the state of milk and it
be of butter. Bull calf of milk and it
be of butter. Bull calf
am Canadian Champion of her children
field record at two years, 44 bb. of milk
and 20 bb. of butter. Also my two year old
stock bull, grandson of Sarcasto Lad, Btf DAVID CAUGHELL, Yarmouth Centre, Ont

RIVERVIEW HERD
FOR SALE, 2 Bull Calves, sired by Sir Asagria Beste Segis, son or King Segis, world; greatest 5 year old sire, dam Asgrie Lilly Pietertje Paul, champion Jr. 4 year old-25.56 lbs. butter 7 days. Dam of calves a 20 bb. 2 year old and 23 lb. 4 year old. Price reasonable considering breeding. P. J. SALEY

P. J. SALLEY Lachine Rapids, Que.

LAKEVIEW HOLSTEINS

LAREVIEW HOLSTEINS
Herd headed by Count Hengerveld's Count
De Kol, son of Pietertje Hengerveld's Count
De Kol, who has five daughters averaging
over 30 lbs, butter in 7 days, and whose
dam (53.0 lbs. in 7 days) has a daughter
with a record of over 35 lbs, butter in 7
down, from this site for last of Grand
down, from this site for last of Grand
Hamilton Radial close to farm. Visitors
met by appointment. met by

E. F. OSLER, Bronte, Ont.

### SUNNYDALE

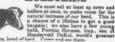
Offers Heigerveld De Kol Keyes. His dam is now under yearly test; his two nearest grand dams have 7 day butter records averaging over 23 lbs., in 7 days. dividual choice breeding. Write for particulars.

A. D. FOSTER Bloomfield, Ont. LYNDALE HOLSTEINS

Head your Herd with a son of Sara Hengerveid Korndyke whose sara Hengerveid Korndyke whose head was to have a son of Sara Hengerveid Korndyke whose his barrier was to have a son of the same fact that the same has been son of the same fact that the same has been son of the same fact that the same has been son of the same

BROWN BROS, LYN, ONT.

#### HOME-BRED AND IMPORTED HOLSTEINS



head of herd. Come and see them.

H. E. GEORGE, CRAMPTON, ONT.

nam Stn., 11/2 miles,—C.P.R... E4-21-10

HOLSTEIN CATTLE If you are thinking of buying a choice young cow or hafter in calf, come and see young cow or hafter in calf, come and see doesn beautiful heliers are in calf to share Hill, Choice Goods (imp.), who has five sitters averaging 5%, ib., butter, it shares averaging 5%, ib., butter, it shares averaging 5%, ib., butter, it will enter the court of the control of the con

D. C. FLATT & SON, Millgrove, Ont L. D. Telephone 2471, Hamilto

## HOLSTEINS

WINNERS IN THE RING Gold Medal Herd at Ottawa Fair

and

WINNERS AT THE PAIL See Our A.R.O. Records

Just the kind we all want. They combine CONFORMATION

PRODUCTION

Bull and Heifer Calfs for Sale from Our Winners

"LES CHENAUX FARMS" Vaudreull, Que.

Dr. Harwood, Prop. D. Boden, Mgr.

## DISPERSION SALE Of HOLSTEIN CATTLE

Andrew Boa. of Lachute, Que., will sell by public auction, on THURS DAY, DEC, 23RD, 1999, his entire herd of 21 head of High-Class, Pure-bred Hoistein-Frieslan Cattle, and the remainder Grades-30 head in all.

Parties coming by train will obtain excursion rates. Parties intending to come to this sale will be met at depot by notifying proprietor a few days previous to sale. Descriptive circulars on application.

Lachute is situated 40 miles west of Montreal and 80 miles east of Ottawa, on C. P. Ry. and the Canadian Northern. Catalogues on application.

AND. BOA, Prop., Genoa P.O., Argenteuil Co. M. SMITH,

Box 10, Lachute, Que. Licensed Auctioneer

## AUCTION SALE Of 45 HOLSTEIN - FRIESIAN CATTLE

AT RIVERSIDE FARM, CALEDONIA, ONT.

On THURSDAY, DECEMBER 27th, 1909

Twenty-eight females, all ages, 15 bulls, including the two great stock bulls, Sir Pictertje Posch De Boer, whose two nearest dams average 25.67 lbs butter, Prince De Kol Posch, dam 72.2 lbs, butter in 7 days.

Riverside Herd represents several of the greatest families of the breed, Johanna, Sarcastie Posch, Wayne, Ormsby, Aaggie, etc., etc., Catedonia is on Buffalo and Goderich, Hamilton and Pt. Dover, St. Thomas Branch of G. T. R. Trains stop at farm. Reduced Rates. Sat at 1 p.m., under cover. Time up to 10 months on approved notes at 6 per cent.

ST. ALMOS, Brantford, Ont. E. J. WIGG & SON, Cayuga, Ont.

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# Dispersion Auction Sale

40 HEAD REGISTERED HOLSTEINS, also Horses. Pure-Bred Poultry, Implements, Barn and 47 Acres of Land, situated within the Corporation at HESPELER, ONT., Waterloo Co.

THURSDAY, DECEMBER 23rd, 1909

THURSDAY, DECEMBER 23rd, 1909

Among the Holsteins are 20 cows and helifers in milk; ten with calves at side. RECORD OF MERIT COWS, with records from 12 to 22 lbs butter in 7 days; COUNT CALAMITY MERCEDES, the most prepotent lying side in Canada, dam's record, 4 years, butter 7 days, 25.5 lbs.; airc's dam, 22.1 lbs., tening over 4 per cent. He is the sire of the champjon two years old helifer of days, 63 lbs. He is sire of the two highest testing two year olds sired by same bull in Canada. Their records at 2 years, average butter 7 days, 12.59 lbs, best day's milk, 50 lbs. Twenty cows and helfers bred to him of the leading strains with good official backing, their calves will be valuable. An opportuners can get evening trains home.

TERMS—Time up to ten months on approved notes bearing 6 per cent.

TERMS.-Time up to ten months on approved notes bearing 6 per cent

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Farm within the corporation; five minutes walk from C. P. R. and G. T. R. stations. Good hotel accommodation three minutes walk from barn. Catalogues on application.

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# You Cannot Afford Any Roofing Which is Not Guaranteed for Twenty-five Years

Oshawa-shingled roofs are guaranteed for twenty-five years. No other roofing guaranteed for five minutes.

So put it squarely up to the next fellow who

SO put it squarely up to the next fellow who tries to sell you some roofing "us good as Oshawa Steel Shingles." Ask him to agree in writing to replace the roof free if it gives any trouble within the next quarter-century. Then watch him dodge. See him evade, Hear him tell about Mr. Somebody, of Somebace, who roofed a barn with his roofing in 1884 and it's a good roof yet. Hark to him ask if that doesn't make you feel safe.

Tell him it doesn't prove what the Pedlar Guarantee does prove. Because that guarantee is your absolute protection against roof troubles for twenty-five years to come.

There is a buding promise to give you a new

There is a binding promise to give you a new roof entirely free, to put it on the building for you tree, and to guarantee it for another twenty-five years, if your roof of Oshawa Gal-vanized Steel Shingles gives any roof trouble

vanized Steel Sningles gives any Fron Frontier within twenty-five years from the day it's on. There is \$250,000 capital back of that guar-ntee. There are 48 years of honorable repu-tation back of that guarantee. And there is the biggest business of its kind in the British

the biggest business of its kind in the British Empire back of that guarantee. So it is plain common sense for you to refuse to buy any roofing that is not guaranteed. And the only kind that is guaranteed is this kind we make — Oshawa Galvanized Steel Shingles. Guaranteed for 25 years. Actually good for a century.

This is the Roofing For Your Money

Oshawa Galvanized Steel Shingles make the roof you can best afford for any building. They cost but five cents a vear per square. (A square is 100 square feet). They are stamped from heavy sheet steel—28 gauge steel. Then they are thickly galvanized. That means they are coated with zinc—the rust defying metal—in such a way that the zine is driven right into the steel. It cannot flake off, as it would if this galvanizing were done the ordinary way. Thus these Oshawa Shingles require no painting. They will not rust. They cannot nossibly leak.

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possibly leak.

So you are sure you will have no bother with your Oshawa-shingled roof, once it's on the building. You can depend on that; and you can doubly depend on it because you have the guarantee. Hand it to your banker or lawyer to keep for you; and know that it is good for a new roof right up to the last day of the twenty-flith year—if the first one gives any trouble whatever.

#### Cost Far Less Than **Wood Shingles**

Wood Shingles
You must pay about the same price per square for ordinary wood shingles. They will cost you more to lay, because it is a quick and simple job to roof with Oshawa Steel Shingles—and it is no easy job to lay wooden shingles right.
And the wood-shingled roof will need repairs every year or two. Probably it will leak from the start. And it will be no real roof at all at the end of ten years, at the most.
You can be certain that an Oshawa-shingled roof will outlast, a wood-shingled roof ten to one. Thus it costs but one-tenth as much.

#### This is the Roof That **Really Protects**

Oshawa-shingled roofs are not merely weather proof roofs. They are fire-proof roofs. They are wind-tight roofs. They keep buildings cooler in summer and warmer in winter.

cooler in summer and warmer in winter.
And the building covered with Oshawa Steel
Shingles is safe against lightning—far more so
than it would be if it fairly bristled with light-

ning rods.

Put these Oshawa Shingles on a building, following the simple, plain directions that come with them, and you have a roof that is hand-some enough for a city hall and that absolutely precedent.

Practically an Oshawa-shingled roof is one seamless sheet of tough galvanized steel. Not a crevice for moisture to get through. No way to set fire to it. No chance for the wind to worry it. Dampness cannot gather on the under-side of it. It needs no painting. And you need not worry about it needing any re-pairs, for twenty-five years at least.

Isn't that kind of a roof the roof for you? Isn't that kind of a roof worth more than it costs? Isn't it the only roof you ought to consider?—since it is the only roof of which all these things are true.

#### Get Your Copy of This Free Book

Send your name and address to the nearest Pedlar place. Tell them you want your free copy of "Roofing

Right."
When you have read that book ing than a good many experts know. gives you facts, proofs, figures. Get it and read it. Get it even if you

don't expect to do any roofing for some time yet. It will put you right on the whole roofing question.

With the book will come a copy of our Guarantee. Study that, too, and see how fair and square and straightforward it is. See what positive protection it gives the man who buys Oshawa Steel Shingles.

#### Sample Shingle Free

WITH the book will come a sample of the Woshawa Shingle itself. It will interest you to study it. You will see the actual construction. You will see the actual construction. You will see that the Pedalar Improved Lock, on all four edges of the shingle, makes it certain that moisture never can get through any Oshawa-Shingled roof. You will see how the Pedalar process of galvanizing drives the zinc right into the steel so it never can flake off. You will be in no doubt about which roofing after you have studied this shingle. Seal for it and the Book and Gurantee —Sean one. Send for it and the Book and Guarantee-Send now.



know, of course, that some salesman for some other roofing material is liable to tell you there some "catch" about Pedlar's guarantee.

And you can't wonder at his saying so. How else could

he meet the great, big, dollars-and-cents value that guarantee has for the man who buys Oshawa Shingles?

But you know right well that a concern cannot stay in business unless it does business strictly on the level. Our business was founded by my father in 1861. To-day this is the biggest factory of the kind in the British Empire. Our capital is a quarter of a million. You can easily find out our business standing.

So, seriously, do you imagine for a minute we would dare issue a guarantee that wasn't square?

Take my personal word for it—the Pedlar guarantee is exactly what this advertisement says it is.

Send for a copy of it and see for yourself. You won't doubt its good faith

then. That is certain.

## It Will Pay You to Pedlarize All Your Buildings

"To Pedlarize" means to sheathe your whole home with handsome, lasting and beautiful steel-ceilings, side-walls, outside, roof. It means to protect yourself against cold; against fire; against much disease; against repair-bills. Ask us and we will tell you the whole story. Just use a postcard and say: "How about Pedlarizing my house?" State whether brick or frame. Write to-day.

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