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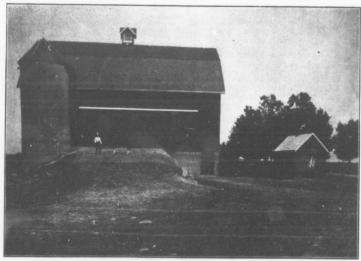
NUMBER 51

# RURALATOME

PETERBORO, ONT.

DECEMBER 23.

1909



A NEAT WELL-KEPT LOT OF FARM BUILDINGS IN PRINCE EDWARD CO., ONT. One would need to travel far to find a more progressive farming centre than is situated in Prince Edward County, especially in the vicinity of Bloomfield. Dairying is generally practised. Some exceptionally fine dairy herds have been developed there, and many others are embarked on the high road of dairy improvement which most surely must lead to success. Everywhere the farmers of Prince Edward are wide awake, eager for information, and seek to make the best of their opportunities. The barn illustrated is on Mr. E. P.

Stanton's farm, located in the Bloomfield district.

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BETTER FARMING AND GANADIAN GOUNTRY LIFE

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will run smoothly and perform its work even when out of balance, because it is fitted with a Self-Balancing Bowl, which allows the bowl free running action on its own axis.

When purchasing a Cream Separator you expect to get one that will do the work, and at the same time last long enough to pay for itself, and be a Profitable Investment for you. We have the Separator you want and will only be too pleased to explain all the exclusive features of the Simplex.

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1st Because they will save you more hard and disagreeable work than any other machine you can invest your money in.

money in.
2nd Because they are the best machines
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Let us tell you what, they will do and
why they are better. We also build Cow
Stanchions, Steel Stalls, Hay Carriers,
Forks and Slings.

BEATTY BROS., FERGUS

### Eastern Townships, Que., Notes

The season just closing is about an average one. Hay was a light crop but the shortage is largely made up by the big corn crop which is now put in the silo to be used for winter fodin the silo to be used for winter fodder. This crop boasts the largest acceage in the history of our province and with hardly up to that of 1908 in yield may be termed a good crop. Hundreds of new silos have been erected, both cement and stave (the latter most numerous) and a large tonnage of silage will be fed this coming winter. This is essential owing to increased winter darying, providing milk and cream for Montreal and Quebee and other growing cities also for the condensaries and cream-cries.

The Payne tariff now makes it possible to ship cream to the States at a profit, therefore many of States at a prone, therefore many or our creameries are shipping their whole output to American cities. Of course this refers to only those creameries situated near the border or with-in easy reach of some railway operating in both the United States and Canada. The price realized is about 30 cents a lb. of butter fat. This is curtailing the output of cheese to a considerable extent.

Cattle have gone into the winter in good condition as the fall has been favorable with good pasturage. What young cattle lost during the drought young cattle lost during the drought of July and August was more than made up. Fewer young cattle have frome to market this fall as has been the case the past two years. Cattle are changing hands at good prices especially milch cows. These will go higher as the will a larger than the state of the country higher as the milk supply becomes shorter in January.

shorter in January.

The grain is not quite as heavy in quality, much of the late sown grain ripened too rapidly. Roots and potatoes are the best crop realized for years, with no rot among the notatoes.

Pork is secree and high. The spring putput will be consumed ere the year closes and the execut of all lists are constant of the property of the pr

reloses and the crop of fall litters are few compared with several years ago. The fall has been favorable for work ing and much plowing has been done. The poor catch of many of the meadows during the past two years, need over agein, thus the acreage turned over this fall has been larger than usual.—"Habitat."

### Central Smith Farmers' Club

The Central Smith Farmers' Club ecently organized in Peterboro recently organized in Peterboro County is enjoying a large measure of success. At their second meeting

County is enoying a large measure of success. At their second meeting held on Friday evening last, there was an attendance of 50. President, T. H. Graham was in the chair. The subject for the evening was "Feed-able to the evening was "Feed-able to the evening was "Feed-able to the evening of the club will be an open one and is dated for January 25. Farmers and their wives are invited to atend. The meeting will be addressed by two of the Professors who will be in Peterboro at that time in connection with the Short Course to be given by the Ontario Department of Agriculture.

### Don't Forget Your Name

Several subscribers of late have failed to enclose their names when re-newing their subscriptions or when sending new subscriptions. This is sending new subscriptions. This is the most essential part of your letter to us. Be sure that your name and full address is given plainly in your

We have had to hold premiums many times of late to ascertain who sent for them. This makes a delay for the sender and needless trouble for us. Avoid both. Write your name and address plainly in every communi-

### Judging Nearing Completion

The farms entered in the Dairy Farms' Competition will, it is expected, all be judged by the end of this week. Mr. R. R. Ness, the judge for those farms in the district east of Toronto has finished his work except in a few farms in the district except in a few farms in the district of the competition of the farms in the district of the competition of the farms in the district of the competition of the farms in the district of the competition of the farms in the district of the competition of the farms in the competition of the competition Toronto has finished his work excepting a few farms in the vicinity of Peterboro. Mr. Glendinning, the judge in Western Ontario, still has those farms near Toronto to examine. This work will be completed this week.

The judges report that they have found most of the farms and stock in a very satisfactory condition. They report a strong feeling on the part of many that did not enter their farms in this competition to do

farms in this competition to do

A most valuable competition.

A most valuable part of the com-petition from the standpoint of Farm petition from the standpoint of Farm and Dairy readers will be the essays written by competitors on features of their farm work that have especially appealed to the judges. These ar-ticles will be a feature of Farm and Dairy throughout the coming year that will prove of special interest to all desirous of informing themselves as to the modern practice on these

as to the modern practice on these prize winning farms.

The liberality of a number of firms and individuals has greatly assisted Farm and Dairy in carrying out this competition. In fact had it not been for this material assistance on the part of its friends, Farm and Dairy would not have been able to have contributors are Dr. Juneen W. Rotertson, president of the Macdonald contributors are Dr. Juneen W. Rotertson, president of the Macdonald

### Our Supplement Postponed

Owing to the illness of our notographer and other unavoidable delays, we are unable to issue the Winter Fair Supple-ment this week as had been planned. It will appear next

College, Que., \$250; The De Laval Separator Co., \$200; The Empire Separator Co., \$200; The Canadian Salt Co., of Windsor, \$200; The Eastern Ontario Dairymen's Association \$150; The Goold, Sl Brantford, \$25 Shapley & Muir

The results may be announced next week. As soon as the scoring has been done the awards will be made known; if not next week, then as early in the New Year as is possible.

### Items of Interest

An agricultural association is formed in British Columbia, which it is hoped will be able to set the dates for fall fairs so that fairs may be formed into circuits, thus allowing the Government to send expert judges to officiate at the fairs. The association meeting is to be held in Victoria on January 31st.

The best informed and most expert The best informed and most expert fruit men in the province will assemble at the Ontario Agricultural College for the special course in fruit growing, January 25, to February 24, 1910. Those interested cannot afford to miss the wealth of practical knowledge and up-to-date information that will be presented at that time.

Don't forget the dates of the Dairymen's Conventions! The E.O. Dairymen's Conventions! The E.O.-D.A. meets at Belleville on Jan. 5th, 6th, and 7th. The W.O.D.A. meets at 8t. Thomas, Jan. 12th and 18th, 1910. These associations are deng a great work for the uplift of be dairy industry. They merit the su-port of anyone interested in dar-ring. Every dairyman who attends either of these conventions will go home better fitted to make a success of his husinessed.

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

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\*An address United Count berland, and Cobourg, Ont.

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

Vol. XXVIII.

FOR WEEK ENDING DECEMBER 23, 1909.

No. 51.

## A TENTATIVE SCHEME FOR THE UTILIZATION OF WASTE LANDS\*

Dr. B. E. Fernow, Dean of Forestry, Toronto University

### Formulated Plans Adaptable to the Sand Areas of Durham and Northumberland Counties, Ont., which if carried out would enable these Counties to derive a handsome revenue.

T your last meeting for the discussion of your waste land problems at which I had the pleasure of addressing you, I pointed out, by way of encouragement, the experiences which French municipalities and private owners have had in the solution of similar problems. I told you that in the last 50 or 60 years some 2,300,000 acres of waste lands of various description had been recuperated in France by forest planting, with an expenditure of \$16,000,000, or say \$7 an acre, and that this acreage now yields an annual income of about \$10,000,000, between \$3 and \$4 an acre, equal to 7 per cent. on a valuation of \$135,000,000, i.e. eight to nine times the expenditure—a remarkable result!

To-day I want to come back and add to these statements in order to point out how these remarkable results were secur-

ed, with a view of aiding you in formulating plans for the solution of your own problem.

PLANTING BY PRIVATE ENTERPRISE

striking feature in these French undertakings is that it was not the State, but to a large extent private enterprise, and municipalitiesto be sure, under the encouragement of and in some cases with substantial assistance by the State-that did the planting and reaped the results. The State has reforested only the 200,000 acres of sand dunes, which were encroaching on the lands, and as you may remember this was done at the rate of \$13.50 an acre and that the State re-imbursed itself, making a profit of \$120,000 by selling less than half the area.

All the rest of the planting was done either by municipalities or by private citizens, and mostly by the latter. The only aid which the State gave was in the case of the vast stretch of nearly two million acres of marshy country, known as the Landes. And this aid took merely the form of legislation that forced the municipalities to reclaim their waste lands for and by themselves. All the State did was to furnish expert advice in making the reclamation plans and to build the roads, which made the country accessible, spending \$1,300,000 in this direction. The corporation, being too poor to finance such an undertaking, secured the neces-

\*An address delivered two weeks ago before the United Counties' Council of Durham and Northum-berland, and others at a special Forestry meeting in Cobourg, Ont.

sary funds by selling some of these apparently useless lands, thereby also shifting the responsibility of their recuperation, and thus, they became rich in spite of themselves, being forced Ly the State to help themselves. This is a fine lesson for a democratic country. Such private enterprise as assisted the corporations is, to be sure, not yet developed in this country.

I also referred to the extensive reclamation plans inaugurated in Prussia. Here, the method is quite different. While the State assists corporations and even individuals by furnishing plant materials and advice, and sometimes even by money, the bulk of the waste land planting is done by the State directly, after having acquired the land by purchase or exchange, this being found in the end the surest and quickest road to

An Excavation Made by the Wind in the Sand Areas of Durham Co., Ont. art of the land that it is proposed to reforest and shout which the add ting the photo, reproduced above, was taken by an editor of Farm and ting the waste sand areas in Clarke the passing, Durham County, last must be sufficiently be a control of the proposed to the control of the proposed to the control of the proposed to the propo

In 1900, the Prussian Government voted to spend \$25,000,000 to carry out this policy of acquiring the waste lands and annually some \$500,-000 are spent to plant these new acquisitions. There are then various methods of approaching the problem. Which is the wisest for the conditions in Ontario?

I take it for granted no argument is needed to convince you that this reclamation work should be undertaken, but, if so, it should be done under a broad, comprehensive plan, with full knowledge as to what is before you, and not in a haphazard, from hand to mouth, or from day to day manner. You should realize that to accomplish the recuperation of the 15,000 acres-and nothing less is proper to consider-may, all in all, require close

to \$1,000,000, a sum large enough to require proper financing.

Being brought up in the most democratic atmosphere, namely, that of Prussia and the United States, my conception of the proper division of the responsibility of doing such work is based on the fact that three agencies are interested in it, namely, the people of the county now living, the Province as a whole, and the people of the county of the future, who are going to reap the financial benefit of it. Surely, the two last named agencies are the most interested because the most benefited, and hence, the financing must be done in such a manner as to place on them the largest

I am a strong believer in local self government. I consider it quite undemocratic for a county to invite the State to do its job, alhough it may quite properly ask the assistance of the government financially and otherwise, but without shifting the responsibility. I would, therefore, not advocate the purchase of these lands by the Province, but the expropriation of the same on behalf of the counties, and the property becoming

vested in the counties on the ground that these shifting sands are a public nuisance, unless owners will do the reclamation work.

### A SCHEME OUTLINED

The government then should provide the funds for the expropriation proceedings as well as for planting by issuing long term bonds for which the counties become responsible, guaranteed by the Province with a lien against the land. In this way the future generation, which reaps the benefit will be responsible for the discharge of the bonds when the property itself is able to repay them.

It would also be quite appropriate for the provincial government not only to furnish technical advice, and supervision of the whole enterprise, but perhaps to start some trial or demonstration

planting before the large scheme is launched so that mistakes in the larger scheme may be avoided. Of course, before launching into such an enterprise, a careful financial analysis of costs and results is needed, as well as an expert inspection of the land and formulation of plans.

In figuring costs and returns of enterprises like these, the size of the property and the extent of the enterprise plays an important part. The usual per acre statements do not satisfy a financier, they give merely a first rough insight into possibilities. Prof. E. J. Zavitz, with certain premises and assumptions has figured out a seven per cent. investment by such per acre calculation. The probability is that ultimately much better results will be obtained, just as in France. Much

A TENTATIVE PLAN

Here is a tentative plan: The plan should comprice the entire 15,000 acres, which would make eventually possible the employment of a small permanent staff, a superintendent and two assistants or foremen, say at \$3,000 a year, or 20 cents an acre per annum. It would, of course, not be practicable or even desirable to plant the whole area at once. A 30 year campaign requiring in the average the annual planting of 500 acres, would be a quite practical proposition for growing the plant material and securing the necessary labor for planting. This does not exclude that the tempo or rate of progress may not be varied as opportunity makes desirable.

I would plant more densely than Mr. Zavitz proposes, in order to secure more quickly a soil cover, which on these sands is rather essential say 4,000 plants an acre, and I would use more expensive material in part, and more careful planting methods in order to avoid repairs, which experience has shown is the penalty paid for cheap initial planting and which is usually forgotten in these calculations. I would choose a mixture of White and Red Pine with Scotch or Jack Pine and perhaps Black Locust and other species, the later for the purpose of cheapening the plantation and with a view of earlier utilization of the admixtures, after they have done their duty of covering soil and clearing boles.

ESTABLISH A NURSERY

The first thin do would be to establish a nursery near the area to be planted to grow the material. To plant 500 acres annually would require 2,000,000 plants; to produce which, say three acres of nursery ground would be required, and here the various plants can be grown at the rate of \$6 to \$7 for the 4,000 needed per acre. For the same price, stock could be imported until nurseries are ready to furnish material. The planting could be done in a superior manner for \$10 at most per acre. We would come in this way to an annual expenditure of \$11,500 as very ample for the first 30 years.

In other words, by the time the whole area is reforested, it will have cost, allowing three and a half per cent. on the expenditures—the interest rate at which the Province can borrow-\$5,936.50 or somewhat less than \$40 an acre. After this, the expense is limited to protection and management; while a practice of thinning should begin, which contributes to pay part of this expense. Indeed such thinnings may have begun even

earlier. Each year now 500 acres come into this condition. At first the material secured from these thinnings may hardly pay the cost of removal, but they are needful to make the remaining stand grow better. As the size increases these thinnings become more and more useful and important. being repeated every five to ten years on the same acres. According to German experience at least 25 per cent. of the final harvest will in the average become available in the thinnings, and that to

Hence, from the 40th year on an average of 40 cubic feet an acre, partly in posts, poles, but also railroad ties

the advantage of the

remainder.

and small dimension timber may be thus annually removed, or in the average a yearly harvest of 600,000 cubic feet or, say three million feet B.M., worth at least \$15,000 stumpage, which will amply



An Abandoned Farm House on Sand Lands

Land in Clarke township, Durham County, Ont., scarcely good for pasture. Wherever the sod is broken the sand begins to drift and works destruction on areas beyond. This particular farm has passed into the possession of a Toronto man.

—Photo by an Editor of Farm and Dairy.

pay for the management and half the interest

charges.

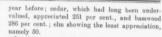
THE HARVEST

By the 75th year the harvest should be ripe on the first 500 acres with say 5,250 cubic feet to the acre (70 c.f. per a.p.y.) 40 per cent. saw timber (17 M per A) or altogether 8.5 million feet B.M. worth at least the present stumpage price of \$10, or \$85,000, while the remaining 3,150 cubic feet an acre of small dimension may add at least \$15,000 or around \$100,000 for the year's harvest.

Now a refunding or amortization scheme may be begun and by less than 6 harvests the entire debt with compound interest will be paid up, leaving a property which should be worth not less than two million dollars, if proper care is being taken in the cutting to secure a natural reproduction or to have the cut acres replanted.

I believe that this figuring is most conservative and reasonable, except that no allowance has been made for a rise in stumpage prices, which is almost certain to occur. A tabulation, lately published by competent assistants of the U.S. Forest Service, shows that in the years 1900 to 1907 stumpage prices for every kind of wood have increased, namely from 50 to 286 per cent., for different species, i.e., say from six to 35 per cent. per annum in the average.

White Pine in those eight years appreciated 121 per cent., having had a sudden great rise in the



In this same publication the cost of growing White Pine to an age of 75 years, including taxes, land at \$3, planting at \$7, interest at four per cent., amounts to around \$7.30 per M. feet, while the present stumpage price of 75 year old wood is stated at about \$8.50 per M. feet.

VALUE OF CUT EXPECTED

It is stated that from experience with White Pine in New England, at 75 years a cut of 47,500 feet B.M. may be expected valued at say \$400 an acre. This would be just double the modest expectation that we have figured. That forest planting in the long run will be profitable even in Canada cannot any more be doubted, but it must be understood and appreciated that it does so only in a long run.

You will have gathered from these statements that a well conceived plan, worked out in detail both on the silvicultural side and the financial side is needed, and I hope that some of the graduates of the Faculty of Forestry now in the Provincial University will have the good fortune to be identified with this movement, with Professor Zavitz as their guide.

How to Judge Horses\*

Prof. J. W. Kennedy, Ames, Iowa

Horses are by all odds the most difficult of all classes of stock to judge and systematic methods of work are now essential. This is especially true in show ring judging, where there are a large number of entries and a limited amount of time. The judge usually has horses moved when they first come out; any lameness will easily be noticed. He next has them arranged in line and then begins at one end and examines them as

they come.

It is well to approach the horses from the front. Standing at a reasonable distance he scrutinizes his general bearing and proportion of parts; also notices the straightness of his fore legs and his width of chest and spring of rib. He now approaches closer and observes the head more carefully; noticing the size of the nostrils and the length of the head, the width of the forehead and the shape, size and brightness or clearness of the eyes. He next steps back a little and drops down so that he can look back between the fore legs at the hocks, and he also views them from a position in front yet a little to one side of the fore limbs. From these two positions any abnormality of the hock can easily be detected, and in making this survey the judge is careful to compare one hock with the other. He next observes the fore limbs closely, and if he notices an enlargement on the inside of the cannon Lone, he examines it with his hand for splint. He notices the feet at the hoof heads, and in hairy legged horses it is always well to examine with the hand for sidebone. The foot is also lifted and its general shape and texture is observed, as well as the size of the frog.

OTHER POINTS TO INSPECT

Having completed the inspection from the front, the judge next steps to one side and makes a critical examination of the animal, noticing his length of neck, chest, carriage of the head, slope of shoulder, depth of body, filling of fore flank, shortness of back and shortness and strength of coupling. He also notices the letting down of the hind flank and compares the length of the upper and lower lines. He also observes the length and levelness of the croup, the set of legs from the side and the muscling of the fore arms and gaskins. Next, passing to the rear, he takes the spring of the rib and general width of the barrel; judges width and muscling of the croupe, haunch and thighs and raises the tail to notice the depth of the muscling in the hind quarters between the



A One-Time Fertile Meadow, Land Such as it is Proposed to Reforest

The wenderful destruction that the wind is capable of working in the sand revene or other than the sand state of the san

\*Reproduced from "Rider and Driver."

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"The or plied to t the seeds seed. Th his own fa legs and also notices the hock at the same time. The straightness of the legs is also observed and the inspection of form is finished.

The judge now has the horse moved straight away from him at a walk. This allows him to observe the straightness of movement and the snap with which the horse picks up his feet; and as the horse is led back toward the judge the straightness of movement is again observed and the judge then steps to one side and allows the horse to pass. As he does so the length and balance of stride and the freedom of knee and hock action is noted. The horse is moved again, this time at the trot, and the same points observed as at the walk. Any tendency toward going wide behind or to throw the front feet out in the manner known as winging is readily noticed as the horse moves straight away; and from the side view, overreaching, a short stilted stride or tendency to drag the limbs is revealed. Besides observing details of action the judge watches the general carriage, the freedom and buoyancy with which the animal moves off. There should be a spring and snap to the action that arises from an exhilaration of spirit and which reflects the happy poise and vigor of the animal.

### A SHORT LEET

Having finished the inspection of the first he should be sent to the other end of the line and the inspection of the next taken up in the same manner as before. After all have been inspected in this manner and successively sent to the foot of the line, the judge has a few picked out for a short leet, and makes a more minute examination and comparison of those he has chosen as likely prize winners until he has definitely decided between them. Good judgment in balancing points is very important just here, for many judges are able to see differences but go astray in their attempt to estimate the relative importance of these differences.

In actual work in large rings it is often advisable not to move all of the horses. In such cases the judge passes rapidly over the line, picking out those that by reason of unsoundness or deficiencies in conformation are not entitled to be considered. The rest he sends to the head of the line and makes a complete examination of them. This sometimes arouses some protest from exhibitors, who hold that every horse has a right to be shown in action; but in all large rings they are a goodly number that are so clearly lacking in top qualifications that it is a waste of time to stop to move them. It should be noted that the most successful judges follow some definite method of procedure in judging horses and the plan used Ly some of the best judges has been roughly outlined in the sketch.

### Seed Control Act and the Farmer

"For some time farmers have Leen inclined to poison their land by sowing grains, clovers and grasses, which are highly polluted with noxious weed seeds," said T. G. Raynor, of the Seed Division, Ottawa, in addressing a gathering in the lecture room at the Guelph Winter Fair. "Hence the Seed Control Act was passed to protect the farmer. It applies however, to him as well as the seed merchant in the sale of seeds.

"The seedsman cannot offer for sale red clover, timothy and alsike if the seed contains more than five weed seeds among a thousand seeds of clover or grass seed. If he does he is subject to the full penalty of the law. Exactly the same conditions apply to the farmer's sale of red clover, timothy and alsike. And if the purchaser suspects accessive impurity of seed offered for sale, he is at liberty to forward a sample to Ottawa for free examination.

"The only exemption, in which the law as applied to the farmer differs from that applied to the seedsman is in respect to the sale of cereal seed. The farmer can offer for sale and sell on his own farm seed grain containing noxious weed

seeds without the bags having to be labelled announcing the degree of contamination. On the seedsman's seed grain bug, the degree of impurity has to be labelled.

"The Seed Control Act has already done much in increasing Ontario's field crops and also in producing a better and cleaner sample of seed. The agitation for cleaner seed makes the farmer more inquisitive in regard to seed that he is about to purchase. It pays to be observing in such matters of vital importance. When the Act was first enforced, seedsmen did not consider that



A Fair Representative of One of the Largest British Bree'ds of Sheep

The Lincoln is one of the larger breeds generally chosen for crossing on common stock to improve their size. The lamb illustrated is one from Mr. D. A. Campbell's flock.

farmers would pay extra for the best seed. But now the supply of No. 1 seed cannot keep pace with the demand, so great has Lecome the demand for better seed."

### Provide Some System of Ventilation

G. H. Blair, Carleton Co., Ont.

Fresh air is most essential to the health of stock and to the purity of milk while it is exposed to the air during the milking process. Too many farmers, especially those in cold sections, through a false sentiment of humanity hesitate to expose their cows to the cold, fresh outside air. It is, however, a more humane act to allow them plenty of oxygen, which will help them to sustain their bodily heat, than to injure their vitality by foreing them to breathe over and over again the foul, vitiated air of an illventilated stable.

There are many schemes for ventilating stables, opening doors and windows amongst them, but the one that least exposes the animals to draft and extreme cold is that which admits the air into the barn by means of chutes, and liberates it from small holes in front of or near the heads of the cattle. The foul air is best drawn out by ducts leading from the ceiling to the ventilators on the roof, which will always insure an upward draft of air owing to the expansion of the heated air.

### THE KING SYSTEM

Arother excellent and cheaper system is that recommended by Prof. King. The fresh air is admitted near the ceiling from ducts which open to the outer air near the floor of the stable on all sides of the building, so that wind from any direction will find entrance therein. The foul air is drawn out by ventilators opening near the floor and leading to the roof. For warm weather these ventilators should be provided with sliding trap doors near the ceiling, through which the foul air may be drawn off. The intake pipes may easily be supplied with dampers, or partially stuffed with hay when the wind is too severe from any one direction.

### Best Types of Ensilage Corn\*

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

Ensilage corn is growing more and more popular among the most successful farmers of to-day. True, some have tried growing and storing ensilage corn and pronounce it of no special value.

They even entertain a poor opinion of it as a food for cattle. But in nearly every case where such has been the verdict, poor preparation of the soil was made, wrong varieties of corn chosen. insufficient care was given the growing crop and poor methods of handling, preserving and feeding the corn, have all more or less been operative in forming such wrong ideas regarding the questionable value of ensilage.

To get good results from any farm ero,, good judgment must be exercised. Cultivation, above all things must not be neglected. Choose varieties best cal conditions. Then when the crop is ready to store, adopt speedy and proper methods.

Giving ensilage corn a fair trial, then, will do much toward removing the all-too-numerous prejudices against it.

### THE THREE ESSENTIALS

In good ensilage corn, three things are necessary:—First, Abundance of forage, which is of prime importance as it furnishes bulk. Secondly:—It must contain a large amount of food value. It must contain a large amount of digestible matter for upon this depends the true value of any food. Thirdly:—The aim should be to get a food with a narrow margin between protein (the nitrogenous part of the food which forms flesh, muscle and Lone) and carbohydrates, which form fat. Upon analysis a food may contain one part protein and 20 parts carbohydrates. The aim should be to get a narrower margin than this, say five of protein and eight of carbohydrates.

### VARIETIES

There are three distinct varieties grown in Ontario :- Small yellow corn yielding from five to six tons an acre; Flint corn, yielding from 10 to 15 tons an acre; Dent corns, yielding from 12 to 25 tons an acre. It will be seen that Flint varieties yield a medium amount of fodder but experiments go to show that in these the forage is somewhat lacking as compared with Dent varieties. I would recommend a combination of flint and dent varieties, leaving out the small yellow. In some sections of this Province farmers sacrifice the amount of forage to get maturity, by growing flint varieties. If proper selection were made among the dent corns to suit the local conditions, varieties of dent corn could just as well be chosen which would mature as early and give far larger returns in forage.

The Leaming variety is to be recommended for ensilage growing in eastern districts. A farmer, however, should not adopt any hard and fast

\*An address delivered at the recent Guelph Winter

own conditions should determine the variety best suited to his land. SOIL REQUIREMENTS

Corn takes from the soil, a considerable amount of plant food. Hence the ground should be well prepared, in good tilth, be underdrained and rich in plant food. Cold, sour land, seen mostly where underdrainage does not still the contract of the contract o not exist, produces, as a general rule, small amounts of corn of poor quality. Drainage also hastens maturity from

two to three weeks.

Do not be afraid of giving the land
too much cultivation. When you consider the seed-bed ready for sowing,
apply as much more cultivation to it
before planting. Especially is this
definition of the seed below the seed the seed of the seed th before planting. Especially is this advice applicable to sod, which hastens maturity of these Dent varieties.
The aim should be to select a corn

to mature in 90 days rather than 110. Then in the selection of your variety, acquaint yourself thoroughly with your soil, practise underdrainage and thorough cultivation and figure as much as possible on the season.

### VARIETIES RECOMMENDED

The following varieties are recom-mended for the three different sec-

tions:—
Toronto, London, South:—Reid's
Yellow, Early Mastodon, Leaming and
White Cap Yellow Dent.
Toronto to Cornwall:—Early Mastodon, Leaming, White Cap Yellow
Pent

Dent.
Peterborough, Owen Sound and Ottawa:—Leaming, White Cap, Yellow
Dent and Longfellow.
For New Ontario:—White Cap,
Yellow Dent, Longfellow and Comp-

ton's Early.

ton's Early.

At Ottawa this year the following varieties gave the following yields:
Early Bantam variety (sweet corn) yield 9.5 tons an acre.

Mastodon variety (ensilage), yield 16.5 tons an acre.

Compton's Early variety (ensilage),

Longfellow variety (ensilage), yield 16.5 tons an acre. Leaming variety (ensilage), yield

18.5 tons an acre. Reid's Dent variety (ensilage) yield

22.5 tons an acre. Reid's Yellow variety (ensilage),

yield 30.0 tons an acre.

White Cap Yellow Dent var

(ensilage) yield 20.5 tons an acre. Dent variety

### Results from a New Ontario Farm

There is no need of anyone going to the West to find opportunities for profitable farming and quick returns.

They can be had nearer home. Mr.

Donald Sutherland, Director of Col-Donaid Sutherland, Director of Colonization for Ontario has furnished Farm and Dairy with the following letter which he recently received from Mr. W. A. Houser, Earthon, Ont. It shows what can be made by farming in New Ontario.

"During the winter of 1905-06 and 1906-07 I removed from 16 acres of my land 225 cords of pulpwood that netted me (after paying for cutting, etc.) \$550.00. In the summer of 1907 I had the most of this chopped and logged (and as the clearing was made a lot easier by the removal of prac-tically all the large timber for pulpwood) average cost per acre was \$10 or \$160.00. During the latter part of the summer and fall of 1908 I had this land stumped and plowed, cost of the summer and fall of 1908 I had this land stumped and plowed, cost by contract and day labor, \$300.00. Thus making a total cost of clearing from green bush, leaving land ready for crop \$460.00, net on pulpwood \$550.00, leaving me a cash balance on hand of \$90.00, less \$80.00 for 160 acres, balance \$10.00. I wish to show you that under ordinary circumstances and a little indement together with es and a little judgment together with the natural advantages this district

possesses, the land will clear itself ready to crop, and in the early stages of the work pay the Government the 50 cents an acre or 880.00 for the 160 acres the settler has acquired.

OATS MATURED IN 92 DAYS "In the spring of 1909 I bought from Geo. Keith & Sons, Toronto, seed grain and garden seeds to the amount of \$45.28, f.o.b., Earlton, of this amount \$23.00 was for clover and timethy seed. I hought among the this amount \$23.00 was for clover and timothy seed. I bought among the above mentioned seed 20 bushels of 20th Century oats and sowed them on 11 acres. These oats matured in 92 days from date of sowing and we threshed 10 bushels or \$2 + 11 bushels an acre of good plump and heavy oats. The real yield an acre would, I think be more, as there was considerable waste by shelling during harvest and also in threshing from stooks outdoors. stooks outdoors.

40 BUSHELS AN ACRE OF WHEAT

40 Bushels an acre of wheat or color also sowed two-thirds of an acre of Red Fife spring wheat, two quarts less than one bushel and carried from machine 40 bushels of good wheat in return, which matured in 97 days from date of seeding. I sowed from three to three and a half bushels of Golden Vine peas on a acre and threshed 35 bushels; the yield would have been much Letter but we had frost that injured vines and gave peas a set back. That which, was already ripe was a good sample, but the frost reduced yield which would have other-reduced yield which would have otherripe was a good sample, but the frost reduced yield which would have other

reduced yield which would have other-wise been a magnificent crop.

"I sowed some barley as a nurse crop for alfalfa; it was sown very thin, showing a yield of 25 bushels an acre and maturing in 75 days. The alfalfa has done splendidly so far. The balance of the piece of land was but in with manyle. The balance of the piece of land was put in with mangels, field carrots, Swede turnips, beets, potatoes, cabage, cauliflowers, cucumbers, nions, radishes, and all necessary garden produce, which in each individual

sample and yield was as good as can be produced in the older part of the Province.

PROFIT OF \$1.190

(Continued on page 9)

press charges; remi also largest dealer in Beefhides atc. Quotations and shipping tag

JOHN HALLAM, TORONTO

### THE CLYDESDALE STALLION MERRIMAN, 3256 Weight 1,970

MERRIMAN has carried off premier honors repeatedly in strong company. He is nine years old, a sure getter, most fav-orably known on routes that he has trav-elled and of great quality and action. Will be sold reasonable. Write,

# Reduced Rates to Guelph ON ALL RAILROADS

Because of our special "SHORT COURSES" during the month of January 1910. Delegates should be careful to secure the Standard Convention Certificate when purchasing their One Way ticket.

STOCK AND SEED JUDGING, Jan. 11 to 22, 1910 POULTRY RAISING Jan. 11 to Feb. 5, 1910

HORTICULTURE Jan. 25 to Feb. 5, 1910 DAIRYING

Jan. 3 to Mar. 31, 1910





Each day will be spent in practical work as follows: Judging the Seeds of principal farm crops; identifying and examining the weed seeds commonly found in grass and clover seed; judging the various breeds of live stock, including horses, sheep, swine and poultry; judging, grading and packing of apples, pears, peaches, etc.; cultivation, storage and marketing of vegetables.

Illustrated calendar and full particulars will be mailed on application to:

G. C. CREELMAN

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could be from Dec other stor horses. K., Toron To ans would informat No grown no wo most ep in suppos tario and are grow

From 1 about 70 probably provided him in a sible by I three ton If no roo 3,000 lbs. thereof. T would de will do fa less meal not be ne ing spring ration. advisable grown gra are availa stance it or wheat oil cake me en meal r

either one mentioned would sugg

What feeding value has Blue Joint and Red Top hay mixed about hair and haif when fed to dry dairy cows along with some sugar beets or corn silage? Would some sugar beets or corn silage? Would For make good to Blue Joint and Red Top make good to Blue Joint and Red

Canadian blue joint is a valuable grass for low lands that cannot be drained. It is commonly found in beaver meadows" and marshes, but drained. "beaver meadows" and marshes, but may also be grown on cultivated land. It remains green after the seeds are ripe and is relished by stock at all in its growth, and, consequenttages

stages in its growth, and, consequently, affords a large amount of nutritious pasture. It vill also yield a fairly heavy crop o palatable hay. We have no definite agures regarding the composition of a mixture of this that I am quit safe in assuming that that I am quit safe in assuming that the Analysis in assuming that the analysis is a superior to the control of silage it would not make a ration very rich in proteids, not rich or cows giving milk. It would up fairly well for dry cows, aspects the they are to be dry for some month. However, ever, many of our best dairymene-ver, many of our best dairymene-ver, many the time that they are dry. To make this ration at all rich in proteids some of the concentrates should be fed with it. As a nasture, the lune ioint will

should be fed with it.

As a pasture, the blue joint will
do well on low lands, whereas, red
top will not do well on low, wet lands,
and is not as satisfactory for a pasture as the blue joint.—Prof. R. Harcourt, O.A.C., Guelph.

### Stockers on a 200 Acre Farm

If no other stock is kept on a farm of 250 acres, how many stockers, 700 lbs. each could be fattened and sold in spring, say from December 1st to May 1st? By "not provided by the stockers, 100 lbs. and 100 lbs. an

To answer such a question accurately would necessitate more detailed information than conveyed in the letter. Nothing is said of the crops information than conveyed in the let-ter. Nothing is said of the crops grown nor of the location of the farm, two most important considerations to keep in mind in such a problem. However it may be safely promised I suppose that the farm is in Old On-tario and that the tusual Ontario crops are grown.

From December 1st to May 1st is From December 1st to May 1st is about 150 days. A steer weighing about 700 lbs. December 1st would probably eat during the 150 days, provided you were anxious to have him in as good shape as at all possible by May 1st, 2,000 lbs. hay, 1,000 lbs. straw, three tons core nessing or three lone roots and 800 lbs. neal. If no roots or ensilage are available then each steer would require about then each steer would require about 3,000 lbs. hay instead of 2,000 lbs. thereof. The amount and kind of meal thereof. The amount and kind of meal would depend on the kind of meal available or procurable and the amount'it was desired to feed. Steers will do fairly well with a good deal less meal or grain but of course will not be nearly so valuable the following spring as if fed a heavier meal ration. Further it is very seldom advisable to feed steers on the home grown grains exclusively even if they are available in abundance. For instance, it would be better to sell oats or wheat and buy bran, orn meal. ration. Further it is very seidom advisable to feed steers on the home grown grains exclusively even if they are available in abundance. For instance it would be better to sell outs or wheat and buy bran, corn ment, of cake meal, cottonaed meal or glution of teach meal, cottonaed meal or glution and the steer of the self-steers. Orkshires, Poland Chinas and Tamworths. These are the popular standard breeds for which there is mentioned home grown feeds and many of the new swhibtors would have been happen by any that the sear happen would have been happen up and the control of the contro

The Feeders' Corner of the Feeders' Corner is for the use of a 200 bs. and sorn or oil cake meal or gluten meal 100 to 200 bs. Begin by feeding two pounds per diem, raise slowly at first, more rapidly later until steers are prompt attention.

Feeding Value of Red Top
What feeding value has Blue Joint and by amount indicated as probably ne-

possible to keep you might decide by estimating feed on hand and dividing a by amount indicated as probably necessary for one steer.

He but supposing this 200 acre farm to be run as are many others in Onlario we might expect to find on it are we might expect the sum of the parently no stock. For the same parently no stock. For the same present its probable there is no roots nor onsilage. The crop would there reason it is probable there is no roots nor onsilage. The crop would there are not 175 tons hay.

Ly and 175 tons hay.

Both which is a sum of the parently of the weather would run the weather would be worth probably \$700. Out of this money should be bought say 10 tons bran \$200 - and 10 tons oil cake meal the parently would be a sum of the parently would be supplied and the parently would be probably \$700. Out of this worth probably \$700. Out of this parently would be worth the follow. This would be a worth the follow. This would be a worth the follow. This would be supplied to the parently \$700. Out on the parently \$700.

Hay for steers . . . . 150 tons Straw for steers probably 75 tons Oats for Steers . . . . 17,000 lbs. Oats for Steers . . . . 17,000 lbs. Barley for steers, 30,000 or there-

abouts. Bran for steers .... 20,000 lbs Oil cake meal . . . . . 20,000 lbs. Corn meal or . . . . . 20,000 lbs. Gluten meal .. 20,000 lbs.

Gluten meal . 20,000 lbs.
A total of 87,000 lbs. meal.
This would be enough meal for over 100 steers, but as there is probably hay for not more than 100 head it would not be advisable to go beyond that number.—J.H.G.

### Our Veterinary Adviser

OEDEMA.—Mares jaws are swollen on the outside to the thickness of a man's hand. She has not done well lately.—R. M., Lennox and Addington Co., Ont.

Give her one dram iodide of potassium twice daily. Rub the swollen parts well twice daily with a liniment made of Iodide of Ammonium one oz., Iodine half oz., Alcohol, eight oz., water eight oz.

BLOODY MILK-Young cow gives bloody milk out of one teat.-W. M. M., Ontario Co., Ont.

This is due to a rupture of some of the small blood vessels of the quarter. Sme cows are greatly predisposed to this trouble. Bathe the quarter often with cold water and give one ounce tincture of iron in a pint of cold water as a drench three times daily with blood cases to pass. water as a drench three until blood ceases to pass.

COW PERSISTS IN EATING WOOD—
I have a cow that eats wood. When she cannot get a piece of a stick, whe altest boards. Recently she ate a piece of a matched lumber about four inches wide. She starts at the end and just grinds it off. Will you please give me the cause, also a cure?—Hugh Lackie, Hastings Co., at.

This is due to a want of phosphates in the system. Allow her free access to salt and give her two drams calcium phosphate three times daily until the habit ceases.

### The Maritime Winter Fair

A larger number of entries of live ock and of higher quality than ever fore taxed the limit of the Winter before taxed the limit of the winter Fair building, with its new annex, at Amherst, N.S., to the utmost. Crowds of farmers poured in from all parts of the maritime provinces. They have at last realized the value of this nter fair as a splendid education found in the best types of cattle as found in the best types of catelogs sheep, swine, poultry, cereals and fruit. The lectures in connection with the fair were well attended and were much appreciated.

DAIRY CATTLE w dairy building had been Its system of ventilation was A new erected most defective. The air was heavy and moist for the most part, all the time moist for the most part, all the time and was against the cover and was against the cover ers in that building doing the theory of the work. The dairy cattle exhibit our prised the 12 Ayrshires entered by the Messrs McIntyre Bros., Sussex, N.B., and nine head owned by Fred Black, Amherst, and one owned by C. A. Archibald, Truro N.S. Ten Guerraeys were shown by Roper Bros., Charlottefown, P.E.I.; Jerseys by H. T. Pipe & Son, Amherst, N.S., 10 head; J. C. Baker & Son, Barrons-Rold, N.S., three head; and J. R.

feld, N.S., three head; and J. Semple, Brule, N.S., one anin There were also 24 grades. The H steins were in the old dairy barn under the seats of the lecture room and had better ventilation. Exhibi-tors of Holiteim were Logan Bros., Amberst, N.S., 10 head; Sam. Dickie & Son, Cent. 10 head; N.S., seven head; R. L. Hickop, N.S., seven head; R. L. Hickop, N.S., seven head; R. L. Hickop, N.S., which was and heifers were entered in the Dairy List (which was a 48 hour test). The Logan Bros. cow, Maple Grove Louise de Kol, won the silver cup val-ued at \$100, donated by Henry Birks and had better ventilation.

the silver oup valued at \$100, donated by Henry Birks & Co., Montreal, for cow making the best score, all breeds competing, to be won three times.

won three times.

In the beef cattle exhibit Shorthorns predominated. They were of a superior class. A great many lacked finish but the type was there all the same showing progress in this respect over previous fairs, when the Leef type was not an propulse.

type was not so pronounced. In the Registered Shorthorn classe In the Registered Snorthorn classes, C. A. Archibald, Truro; Hazen and Harold Etter, Westmorland Point; Edwin Forest, Amherst Point; Cecil T. Coates, Nappan; Geo. M. Holmes, Amherst; Chas. W. Forrest, Amherst Point, N.S.; Samuel C. Lane, Pownall Donn, N.S., Samuel C. Lane, Pownall P.E. I., Donald Freeman, Amherst; L. M. Jerson, Sackville and J. M. Pipes, Agreeman, Land Bagured in the ring with an analysis of the second second

won the O Brien cup for best animal any age and best female any age. Amos Fowler won the Pugaley Cup, for best grade steer. The grade clas-ses contained from eight to 16 ani-

mals each.
W. W. Black was the only exhibitor W. W. Black was the only exhibitor in Herefords. He brought out his stock in fine form. He won for "keeps" the Giles Cup for the 3rd time which had been on the go tor seven years. He also won the Borden Cup for best pure head steer or heifer with his characteristic and the control of the co

prize winner would be bey

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Conswords.—H. B. Pariee, Sussex, N.B., was the only exhibitor. Cheviots.—These were of good qual-ity and shown by Chas. Symes, Minudie, N.S. Southdowns.—A keen contest for honors was fought between st for honors was fought between E. Baker & Son, Barronsfield, N.S., phas Nunn, Winsloe Road and liver C. Saunders. Trilby, P.E.I. propshires.—These made the largest Oliver C. Shropshires.—These m. Exhibitors were Loga. showing. Exhibitors were Logan Bros, and Jas. J. Stewart, Amherst Point, Geo. Boswell, French Fort, and Cephas Nunn, Winsloe Road, P.E.I. Oxfords—J. E. Baker & Son, A. H. Boswell, Marshfield, P.E.I., and Burder Goodwin, Bair Verte, N.B., divided the honors in this class. Hampshires.—by Cephas Nunn, P.E.I. Surfolks.—by Albert Boswell, jr., P.E.I. Grades and crosses were numerous Grades and crosses were numerous

Grades and crosses were numerous and well fitted. On the whole the sheep were a splendid lot and added much to the attractiveness of the

The swine exhibit was tull of merit, and in all the breeds the true bacon pe was in evidence. Yorkshires ok the lead in numbers, closely foltook the lead in numbers, closely fol-lowed by the Berkshires. The former were shown by W. H. P. Cook, Little York, Roper Bros., Charlottetown, A. A. Meßeath, Marshfield, P.E.I.; Wm. Holmes, Amberst and A. Anderson, Sackville. Tamworths.—These were good specimens shown by W. J. Gib-son, Marshfield and Roper Bros., Charlottetown, P.E.I. Berkshires.— In this class competition was most Charlottetown, P.E.I. Berkshires, In this class competition was most keen between Peter Brodie, Little York; Wm. J. Gibson, Marshfield, P.E.I.; J. J. Stewart, Amherst Point; J. R. Semple, Bruie, W. Hol-mes, Amherst, and Geo. G. Lowther, N. S.

Several other breeds were represented, also a great number of grades and cross breed animals.

and cross breed animals.

Peter Brodie won for the second
time the Silver Cup for best pen of
three hogs with his Berkshires.

The judging classes of beef and
Dairy cattle, sheep and swine, were
well contested by over 40 boys, principally those attending the Truro Agricultural College. ricultural College.

The dressed carcases competiti verified in many instances the judg-ment of the live animals. This part of the fair created much-interest. POULTRY

The poultry display was the best ever held at the Winter Fair; over 1,000 birds were on exhibition. Barover held at the Whiter ran, 10,00 birds were on exhibition. Barred Rocks led in point of numbers closely followed by the White Wyandottes. American breeds, Mediterranean and Asiatic were out in numbers and the state warmed. Some grand in the order named. Some grand specimens of Toulouse, Embden and Egyptian geese as well as Pekin ducks were shown. The display of dressed

were shown. The display of uncompositive providing providing the providi ful as well as weighty. The potatoes were smooth and even. Donald Inful as well as weighty. The potatoes were smooth and even. Donald Innis, Tobique, N.B., worthily won for "keeps" the Silver Cup for best display of cereals and seeds. No farmer has been more diligent in assisting the movement for the betterment of the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than has considered the seed grains of the province than the seed grains of the seed gr

Apples.—This display far surpassed any former fair. To one looking over the long tables with yellow and rosy apples of innumerable varieties it al-most seemed as if the three provinces vied with each other as to which vied with each other as to should make the best display

The evening meetings in the large auditorium were always largely at-tended by earnest listeners. The ad-dresses by the experts on their pardresses by the experts on their par-ticular subjects were interesting and practical. The management under President Elderkin and his vice., Col. Campbell and Manager Fuller are to be congratulated on the success their 9th Winter Fair.—W.F.S. of

# HORTICULTURE

### Apple Growing Sixty Years Ago

E. Orr, Middlesex Co., Ont. About 60 years ago the owners of orchards that had previously only orchards that had previously only borne the natural fruits, began graftborne the natural truits, began gratting their apple trees. The scions used in grafting principally came from the vicinity of Rochester, New York state. And some of the varieties were the "Greenings," which still hold their own among most of the newer sorts. The "Jelly Flowers," a large globular with alternating strips of the science shaped apple, with alternating stripes of red and green were lovely and mel low about Christmas time. The "Non such' was a large yellow apple, with a very poor flavor. The "Mucus" was a late keeper, at its best in May and June. The "Spitzenburg," a splendid variety, with an agreeable flavor, was for many years a universal favorite.
The "Pippins" with their vario

with their various divisions were all very good. The "Pearmain" was a much sought after apple, with nearly always a water ore, making them very juicy. The 'Russet' of several kinds and many others, gave the people of former days apples in great abundance. The grafting was generally done by a gang of men, who devoted all their

time in the season to this work. They were thus able to do several orchards in a day. Sometimes the scions must have gotten mixed, for the writer re-members in his youth of seeing a half dozen varieties growing on the same tree, giving an appearance of many

### Nova Scotia Fruit Growers Meet

At the annual convention of the At the annual convention or the Nova Scotia Fruit Grower' Association held at Kentville, Dec. 1 and 2, the question of a definite size to be mentioned in the Fruit Marks Act for minimum No. 2 and No. 1 of the principal varieties of apples was taken up by Inspector Fitch. He thought the present definition using the word "imadium" was too vague and allowed "medium" was too vague and allowed of too much variation, that different minimum sizes would have to be established for the different varieties actablished for the different varieties according to typical size, e.g., Baldwins, Greenings, Gravensteins, etc., minimum No. 2, 21-4 in, No. 1, 21-2 in, Nonpareil Golden Russets, etc., 21-8 and 23-8 Spya, Blenheims, Kings, etc., 23-8 and 25-8 and so on. Since grading in this way would throw out grading in this way would throw out many small perfect applies he second the second of the second of the second of the second and the barrelliantion for No. 3 and the barrelliantion for No. 3 and the segment of these smooth applies from 21-4-4 g. The latter and marking them No. 3. The latter and marking them No. 3. The latter smooth apples from 2.3. The latter and marking them No. 3. The latter then would be for a small price a good then noorer classes. He deapple for the poorer classes. He de-plored the sending away of such trash as was now often shipped under the brand of No. 3.

After some discussion in which the speakers were about equally divided as to the advisability of definite size, the matter was left in the hands of a committee to consider and report at next

F. T. Shutt Ott MOISTURE IN ORGINARD SOILS
F. T. Shutt, Ottawa, chemist for
the Dominion Experimental Farm,
gave a very able address on "The Control of Moisture in Orchard Soils,"
Some of the points of the paper were that the growing of grass or grain in any orchard was bad practice on account of the great amount of water given off and taken from the soil by these crops, that intertified crops might be practised in young orchards, that tillage should begin in orchards as soon as possible in the spring, that orchard soil should be cultivated to form an earth mulch as soon as plowed and that ground should not be plowed and left without further

cultivation.

Prof. H. W. Smith of Truro spoke at some length on plant diseases. He

P.E.I., and Chas. Symes, Minudie, N.S., showed a good lot.

Cotswolds,—H. B. Parlee, Sussex,

HORTICULTURE

the importation of plant diseases. The with the coding moth and plum curvers the cule exhibitor. professor gave the life history and habits of some of the more common fungi and urged the adoption of all means possible to prevent the spread of disease, such as burning all diseased plants and parts of plants, dead trees, etc., and the plowing under of leaves upon which might be found the spores of such fungi. The aphis The aphi the spores of such fungi. The aphis which had caused us so much trouble this year he was glad to say had a natural enemy which would protably keep it in check. THINNING FRUITS

R. J. Messenger, Bridgetown, gave a talk on the benefits of thinning in his own orchard in which he cited the case of one tree of Baldwins among others which had in previous bearing cchers which had in previous bearing years given a heavy crop of apples, 80 per cent. No. 2's and under. This year after thinning the tree packed 75 per cent. No. 1, 20 per cent. No. 2 and 5 per cent., No. 3. Thinning saved time in picking, packing, and saved time in picking, packing, and we get more than the previous of the we get more than the previous previous pro-ton the previous previous previous previous pre-ton the previous previous previous previous previous pre-ton the previous previous previous previous previous previous pre-ton previous number of parrens snipped of the thin-ned fruit. Quite a number gave will-ing testimeny in favor of thinning, among them. R. S. Eaton, G. C. Mil-ler, F. H. Johnson and Mrs. Sangster. Mr. L. D. Robinson o

of Berwick gave an interesting talk on winter sprays, dealing chiefly with the lime-sulphur solution. In the discussion sprays, decling chearly with the lime-sulphur solution. In the discussion on this paper it was the general opin-ion that about 18 lbs. sulphur and 20 of lime was about the right propor-tion of ingredients, that the water tion of ingredients, that the water should be added first, then the lime, and that it need not be applied hot as long as it was slightly warm. Boil about 35 minutes to an hour. It should be used only as a winter spray at this strength.

### Quebec Pomological Meeting

At the annual meeting of the Que-bec Pomological Society held at Mac-donald College on Dec. 8th and 9th, many interesting topics were discussed. President G. Reynaud of La Trappe was unable to be present owng to sickness. A resolution was passexpressing regret at his absenced the hope that his illness is only temporary Among other resolutions the following:

"That in the interest of the a make an exhibit of fruit from this province at the Royal Horticultural Show, London, next fall, and that the secretary be delegated to confer with the government regarding same."

OFFICERS ELECTED

The following officers were elected:
—Pres., Prof. W. S. Blair, Macdonald College; vice-pres., A. D. Verrault, Village des Aulnaies; sec-treas., Peter Reid, Chateauguay Basin, and nine directors.

A valuable paper was presented by r. C. G. Hewitt, Entomologist of

on the coding moth and plum cur-culio. Prof J. M. Swain, entomolo-gist of Macdonald College, gave an illustrated talk on the same illustrated talk on the same subject and answered many questions in dis-

An excellent paper was read by Mr. W. T. Macoun of the Central Experimental Farm at Ottawa, on "Plum Culture in Quebec." In this paper, PLUM CULTURE Culture in Quebec." In this pa and experimenters for the past 40 years as recorded in the transactions various horticultural societies the province. The conclusion reached the province. The conclusion reached was that European plums in general are not sufficiently hardy in fruit to are not sufficiently hardy in fruit to are the control of th plum. The Americana plums are hardy and should be planted in preference to the European. An interest-ing discussion followed Mr. Macoun's xcellent address.

ADDRESS BY HON. SYDNEY FISHER In an able address the Hon. Sydney Fisher dealt with the possibilities of the province in the development of of the province in the development of the province high-class dessert fruit. The province is especially adapted to the growing of Fameuse and McIntosh. It requires hard work and constant attention to detail in fertilizing, spray-tention to detail in fertilizing, spraying, packing, marketing, etc., but nothing of value is accomplished with out this effort on the part of the producer and the satisfaction in having ducer and the satisfaction in having helped to develop fruit second to none will well repay for the energy expended.

The Hon. J. L. Caron, Minister of The Hon. J. L. Caron, Minister or Agriculture for the province, the Hon. J. L. Decarie, ex-Minister of Agriculture, now Provincial Sectory and Mr. G. A. Gigault, Deput Min-ister for the Province also zave ad-

MISCELLANEO

A timely and practice aper was presented by Mr. J. Chapais on "Forestry and the Organist." Mr. Alex McNeill, chief of the fruit di-Alex McNeill, chief of the fruit di-vision, Ottawa, although unable to be present through illness, sent a valu-able paper on "Box Packing." Prof. W. Lochhead gave an interesting address on "How Plants Feed

Father Athanase of La Trappe dis-Father Athanase or La Trappe unsussed the growing of asparagus in orchards. Mr. S. L. Kinney, South Hero, Vt., related the effects on markets and consumers of the recent New England Fruit Show, Mr. J. A. Ruddick, Dominion Dairy and Cold Storage of the consumers of the recent New Polymeioner, again and Illustrated Commissioner, gave an illustrated address on fruit growing in different address on truit growing in diner parts of America, showing views orchards in Nova Scotia, Brit Columbia, Oregon and California.

The December 2nd number of Farm and Dairy is well worth the price of the subscription for a year.—D. N. Anderson, Lambton Co., Ont.

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Here the made soluble grinding mil ions becom food passes bile, a secre emulsifie until the fo testines and will pass thre branes is it Hence the gestible food

Pou Fowls have have nostrils

Don't rob the hens eve In killing handle gently

ELM GROV Rose Comb B Dorkings, Ligh Mammoth Bron Some splendid Leghorn Cocke oth Bron plendid Ducks. H. RUTHER

### Receseseseseseses POULTRY YARD

K\*\*\*\*\*\*\*\*\*\*\* Fattening and Marketing Turkeys

Robert Smith, Lambton Co., Ont.

The turkey has a much more delicate constitution than the chicken. The crate system is too confined for fattening turkeys. Where the turkeys have been accustomed to roaming over the field and picking their own living they must be fed with great care else they will overload their stomachs and become sick. Place the turkeys in a dry, light and well ventices and the control of the same sort of feed as you would the chickens. It is best to feed whole grain for wo feeds a day. The amount of the turkey in the constitution of the turkey in the constitution of the turkey in the constitution of the turkey are to be confined for a fort wo feed with the constitution of the turkey and the confined for a most benefit of the confined for a month or more included the confined for a month or the turkey will eat up, always giving plenty of exercise. Give them not quite as much as they will eat up, always giving plenty of exercise. Give Robert Smith, Lambton Co., Ont. quite as much as they will eat up, always giving plenty of exercise. Give plenty of clean water and don't forget

It is better not to confine the turkeys at all if they can be fed in some dry, clean place. Set the turkeys acquired to the turkeys and be shut in till fed the morning. Give them a good the turkeys and morning. They will roam over the fields all day and have excellent apnetites, grow fine and fattening will not be troublesome.

Turkeys are easy to dry pluck as the feathers are far apart and pluck readily. Those shipped to distant markets must be dry plucked. is better not to confine the tur-

Process of Digestion in Fowls

Miss Mary Yates, Guelph, Ont.
During digestion the food passes through the following stages:—Taken into the mouth and there mixes with saliva which changes the starch part of the food into sugar which is readily soluble. (To the casual observer watching poultry cat their breakfast some cold morning, it may seem absured to say that saliva mixes with the hear's food, in the mouth. The excitement of esting however, excites salivary see cition and as the food is swallowed, saliva is swallowed also). swallowed, saliva is swallowed also). swallowed, saliva is swallowed also, in the mouth it goes to the crop where it is swellened and as required is pushed out into the true stomach where do ut into the true stomach where Miss Mary Yates, Guelph, Ont.

it is softened and as required is pushed out into the true stomach where
it is acted upon by the gastric-juice.
Here the proteids are altered and
made soluble. It then passes to the
grinding mill or gizzard where all portions become pulverized. Then the
food passes on, is acted upon by the
bile, a secretion of the liver, and fats
are emulsified and broken up. Not
until the food reaches the small intestines and is so broken up that it
will pass through the anatomical memtestines and is of any use to the bird.
Hence is it of any use to the bird.
Hence is it of any use to the bird.
Hence is it of any use to the bird.
Hence is it of any use to the bird.

### Poultry Pointers

Fowls have no sense of smell. They have nostrils, but no noses.

Don't rob the pigs but see if you an't have some nice sweet milk for the hens every day.

In killing and dressing poultry, handle gently to avoid bruising. Dis-

ELM GROVE POULTRY FARM Rose Comb Brown Leghcrus, Silver Grey Dorkings, Light Brahmas, Barred Rocks, Sammoth Broms Turkeys, Embdem Geese, Some splendid bargains in R. O. Brown Dorkson Cockerles and Pullets; also in the Combined Cockerles and Pullets; also in the Combined Cockerles and Pullets; also in Member of the Leghcru Olub of Canada. coloration quickly follows a bruise, and diminishes the market value of the property.

Both sexes of geese are feathered exactly alike, which makes it difficult to distinguish ganders from geese, especially when young.

In selecting ducks for breeding, size of frame, length of body and general activity should be looked for. With-out size of body we cannot expect to obtain large ducklings.

It requires three months or more to grow a broiler, much depending upon the weight desired, the stock and the care. Broilers shrink about a half pound each when dressed

Some poultrymen, in order to have a regular supply of eggs throughout the year, have a pen of two-year-old hens, one of yearlings, and one each of February, March, April and May hatched pullets.

Naturally fowls are healthy, and no other stock on the farm has been so much abused. Yet in spite of all the ill-treatment they receive they do much letter than any oner stock on the farm of equal value.

Never introduce a new bird into the regular yards until it has been duly quarantined. Keep it alone for a week and note its condition, appetite, etc. Disease is often introduced into a flock by carelessness in this matter.

As a general thing, not enough at-ention is paid to the family history of fowls for breeding purposes, as regards their health. Constitutions Constitutional weakness though it be apparently overcome, should never be allowed to enter the breeding pen.

It is claimed that a freshly laid egg placed in a bucketful of water will placed in a bucketful of water will sink to the bottom; one day old will sink nearly to the bottom, two days old about half way up; three days old about nair way up; three days old, will float not quite at the top; four days old, just touch the top; five and six days, rise a little above the top, rising a little higher as it daily grows older

### Results from a New Ontario Farm

(Continued from page 6) arrive at an estimate at best,

which I place at \$50.00. Grand total 

one year ..... 1,302 50

Total ..... Expenditures after cleared .

Profit net ..... \$1,190 22 SPLENDID CHANCE FOR THOUSANDS "I have tried to make the foregoing as clear as possible and to demon-strate that there is a splendid chance for thousands of families to make for themselves homes that will in a short time be second to none in our fair and prosperous Dominion, and instead and prosperous Dominion, and instead of being to a certain extent in bondage as is very frequently the case, be independent in a loyal and free country. Pretty nearly all the requirements necessary is courage, determination, back-bone and last but not least, sense and fair judgment. Naturally, a little ready money is always a good thing to have, both in an old or new country, but good health old or new country, but good health and willingness to hustle and the exercise of judgment in your labors ercise of judgment in your labors ercise of judgment in your labors count for more than actual cash in this country in hewing out a home. Unless a man wishes to hire his work Unless a man wishes to hire his work and merely superintend the doding of their is O.K. What seems strange that is offer superintend the doding of their is O.K. What seems strange that of peace and plenty, especially as the of peace and plenty, especially as the offer superintendent in the future."

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On. Bell. V.B., Kingsten, Ont.

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### FARM AND DAIRY sent Deputy Minister of Agriculture

Published by The Rural Publishing Company, Limited. on Poh

FARM AND DAIRY is published every Thursday. It is the official organ of the British Golumba, Mantobb, Eastern and Western Ontario, and Bed'ord Ditrict, quebec, Dairymen's Associations, and of the Ganadian Holstein, Ayrehre, and Jer-sey Gattle Freders Associations.

the Canadian Holstein, Ayrshire, and Jerey Cattle Fredera Associations.

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FARM AND DAIRY PETERBORO. ONT.

### A DIVISION ADVISABLE

The Dominion Department of Agriculture has accomplished much for the benefit of the farmers of the Dominion. The time is ripe, however, for a re-organization in this Department. It is not in the interests of the farmers of Canada that Hon. Sydney Fisher should be burdened with the numerous responsibilities he has to carry. In addition to being the Minister of Agriculture, he has charge of the Patent Office, of the Archives, Public Health, Census and Statistics Division, Copyrights, and other similar work. The Deputy Minister of Agriculture, Mr. O'Hallorhan, has done excellent work, but we believe that the work of the Department would be benefited were the work divided, and a second Minister appointed to take charge of the work connected purely with the Agricultural Department.

The present deputy minister is a lawyer by training, and thus is well qualified to look after a great part of the work now under his charge. Burdened with his many duties, as he has been, there is little wonder that not mals makes it an impossibility for

is. This should not be the case. The Deputy Minister of Agriculture should keep constantly in touch with the farmers of the country, as did Prof. Jas. W. Robertson, when he was commissioner of agriculture, and as does, for instance, Mr. C. C. James, the Deputy Minister of Agriculture for Ontario. Mr. James is recognized as an authority in agriculture and his addresses at our leading agricultural gatherings are always instructive. A man of Mr. James' stamp is needed as Deputy Minister for the Department of Agriculture at Ottawa.

### SALARIES SHOULD BE INCREASED

It has long been felt that the salaries paid to the members of the staff of the Ontario Agricultural College are below what they ought to be. These men deserve more. The Institution has repeatedly been in danger of losing its best men through other colleges, and governments, holding out salaries far in advance of those paid at Guelph. Already a number of good men have been lost to Ontario in this way,-men that the province could ill afford to lose. We, in Ontario, should be satisfied with only the best men available. Such men are worth good salaries and to keep them good salaries must be paid.

A deputation headed by President Creelman from the College, waited on the members of the Cabinet in Toronto last week, and asked that the salaries paid at Guelph be raised to the salary basis of the School of Practical Science. The request of these men is entitled to consideration on the part of the Legislature. The interests of the province will best be served by increasing their salaries to an amount comparable with what they could command elsewhere.

Many of these men have spent their lives in fitting themselves for their positions and have attained a proficiency, which is wide felt throughout the country. Their influence on the

student body and on the farmers of Ontario for the uplift of all agricultural industry means much more than the petty increase of salary asked for

and which the Treasury would scarcely feet

### HORSE BREEDING AND GAMBLING

A Bill has been introduced in the House of Commons by H. H. Miller, M. P., which aims to make book making and pool selling illegal at racing meets such as those held at the Woodbine, Fort Erie and Windsor. The bill does not make any attempt to interfere with private betting but only with the business of book making and pool selling. Opposition is being raised to it on the ground that it will tend to discourage the breedingof good horses, the claim being advanced that horse racing cannot be conducted successfully without bookmaking.

As far as the farmers of the Dominion are concerned, ten have been injured to one that has been benefited by attempting to raise fast horses. The enormous expense that is involved in the handling of these anihorses with success. Efforts to en- the way of direct grants, and yet both courage farmers to raise this class of horses should be discouraged rather than encouraged.

If racing meets cannot be held without the gambling features so much in evidence at them, then we can well afford to do without the meets. They ruin more people through the gambling spirit that they promote than are ever benefited in other ways. Horse racing is ruining many of the small fairs throughout the country. It has had a similar effect on hundreds of agricultural exhibitions in the United States. When the people of the United States have driven the book makers and pool sellers from their meets, it is time for us to see that this class of gentry do not find a resting place on this side of the border. Mr. Miller's bill should meet with general support from the members of both political parties in the House of Commons.

### ADVANCE THE ADMISSION FEE

The problem of what is to be done with the Guelph Winter Fair looms larger than ever. When it was decided to enlarge the buildings at Guelph, as was done this year, it was believed that accommodation would be provided for years to come. It was not anticipated that the addition of the exhibit of horses would require all the increased space resulting, through the increased attendance, in a greater congestion than ever.

For some years past a tendency has been manifest to expect the Government to do more in this as well as in some other matters, than rightly pertains to it. Already we hear it being said that the Government should stand all the expense that may be involved in the making of still further great extensions to the present buildings. This would be a mistake. Each year the Government has to spend thousands of dollars on the mere management of this show. The revenue from the Winter Fair has always fallen thousands of dollars short of its receipts. To expect the Government to carry this burden each year. as well as to stand all the heavy expense of further enlargements, is unreasonable. Such action on its part would be unwise. When people feel that they can shoulder all their troubles upon the Government, they soon neglect to put forth the personal efforts or take the interest that is requisite to make shows of this kind a success.

Many of the exhibitors in the dairy division were disappointed that larger and better accommodation was not provided for them. Everything considered, it must be admitted that the directors of the exhibition did about all that could be expected of them, considering the limited space at their disposal. It remains a question, however, if a separate show as was proposed some years ago, and which would unite the scattered dairy interests of the province, could not be made a pronounced success, thus relieving some of the pressure on the Guelph Winter Fair. In Chicago the dairy and fat stock shows are conone farmer in 500 knows who the pre- the average farmer to raise such receive any Government assistance in right Merry Christmas.

have proved successful.

We understand that the directors of the Winter Fair are considering the advisability of advancing the rate of admission to members of the Farmers' Institutes. Thousands of mem bers are admitted at rates that do not average over five cents each. In some cases, members of Institutes, after using their tickets, give them away to others. Incidents are reported where secretaries have sold numbers of tickets to people on the trains. While an advance in the adimssion price to the Institutes might tend to decrease to some extent the number of members of Institutes who would attend-this is open to doubt-it would relieve somewhat the pressure for accommodation and materially increase the gate receipts. It is fortunate that these questions are being considered by capable men. In the meantime, it may be stated that action of some sort is expected on the part of the management that will tend materially to relieve the congestion of both exhibits and visitors at next year's exhibition.

### GOOD WORK ACCOMPLISHED

It is unfortunate that J. R. Dargavel did not deem it best to stand for re-election in Leeds county as director of the Eastern Ontario Dairymen's Association. For years, Mr. Dargavel has been one of the most efficient officers of this association. At times, when its finances were low, he has assumed obligations with the banks on its behalf that but few men would care to risk. During the past few years, as president of the association and a member of the Ontario Legislature, he has been able to use his influence to advantage in moulding legislation that has been of decided benefit to the dairy interests of the province.

Through Mr. Dargavel's assistance we secured our present excellent law governing the sanitary inspection of cheese factories and farm buildings. The legislation adopted at the last session of the Legislature, by which it is anticipated that the position of the cheese and butter makers of the province will be vastly improved after the first of the new year, is due largely to Mr. Dargavel's efforts.

As a member of the Milk Commission, Mr. Dargavel is still doing excellent work for our dairymen. While we know that Mr. Dargavel will continue to use his influence in the Legislature to advance the dairy interests it is unfortunate that he will no longer have the prestige of being president of the Eastern Ontario Dairy men's Association. The fact that his efforts are appreciated by the dairymen in his own section, was shown by the resolution passed at the meeting when Mr. Dargavel declined to stand for re-election.

Once more the Christmas season is upon us; Yuletide with all its joys, festivities and homecomings, is at hand. May every home into which Farm and Dairy goes feel the glad influence of this joyous season. our readers, one and all, we wish a

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C. Marker, Dairy Commissioner.
During the past season II choese clactories and 5a creameries were operated in the Province of Alberta; 21 of the latter by the Provincial Department of Agriculture and popularity known as Government Creameries. It is chosen to the latter by the Provincial Strain of Agriculture and popularity known as Government Creameries. It is allowed to the season of the part of the part of Agriculture and the season of the part of the part

CO-OPERATIVE CREAMERIES

in two years.

CO-DEMATIVE CREAMERIES

The creameries that are operated by the Government were established on the co-operative were established on the co-operative and the control of the control of the control of the control of the creameries of a control of the creameries in the case of the control of the past year was 204,000 pounds, worth \$50,000.

The great built of the butter made in the creameries is disposed of in British Columbia markets, and upward 400,000 pounds are annually consumed 400,000 pounds are annually consumed 400,000 pounds are annually consumed the report of the control of t

### ALL YEAR DAIRYING

With regard to the first point the butter output of the creameries operated during the winter 1908-9 was more than 100 per cent. greater than that for the winter of 1908-9, snowing that there is a tendency in favor of all year dairying. This tendency has been encouraged in every way and will be the statement of the statement of

### Western Ontario Creameries

Some interesting statistics relative to the creamery business in Western Ontario were given by Mr. Frank Herns, Chief Dairy Instructor for Western Ontario, at the recent creamery meeting held at the Guelph Dairy School. Seventy-three creameries were in operation in Western Ontario during the past year, there being four less than for the previous season, two less than for the previous season, two

Creamery Department
Butter makers are invited to send contrainations to this department, to assigns
amount of matter relating to nutter making
amount of matter relating to nutter making
and of these having transferred over to
the Eastern district. The total number of patrons sending cream and
milk to reameries was 15,030 being
1,102 more than during the previous
year. The total output of butter was
3,230 tons, a gain of 10 tons over last
year. In 1908, there was an increase
of 500 tons, 'hence it is apparent,'
said Mr. Herm 'that we are holding
our own in the face of the large
amount of cream that is being shipped
amount of cream that is being shipped
at other points.

### FAT CONTENT OF CREAM

FAT CONTENT OF CREAM
"The average percentage of fat content of cream in the Southern creamers was 26.5. Like year. It is same section it was 24 per cent in the same section it was 24 per cent. Last year it was 20 per cent. The average for the two groups was 24.8 while last year it was 22 per cent. Thus we note a gain of nearly three per cent., which looks like progress.

was 22 per cent. Anus we note a gate of nearly three per cent., which looks like progress.

Out of the 73 creameries in operation, 63 are cream gathering and separator gathering and separator of the Babacock test is used in 63 of the Babacock test is used in 63 of the Babacock test is used in 63 of the William of the theorem of the first that use the oil test will be for the separator of these 10 will have put the oil test aside and that the remaining six will also shortly change over to the Bab-cock test.

'In making the Babcock test 44 remaineries are using the pipette. The creameries well in pine treameries while are used in nine creameries while are used the six of the pipette combined.

"The box churn has practically gone out of existence. Fourteen creameries are using the pasteurizer. NEAR THE DANGER LINE

NEAR THE DANGER LINE
"Tests for moisture were made of
284 samples of butter. The average
moisture for the year was 14.65, taget
year, it was 14.33. The tendency
seems to be pointing in the wrong way
and we are about on the line above
which it is not safe to go. Fifty
samples showed over 16 per cent. of
moisture.

samples showed over 16 per cent. of moisture.

"The two creamery instructors visited 416 patrons. The work has been a very good thing for the business the effect of it always having been good.

"One-third of the creameries, 24, use the individual cans; 22 use large cans; nine use jacketed cans, one, small cans and only 17 still use the cream tanks.

### TEMPERATURE OF STORAGES

"Butter in storage rooms averaged the following temperatures: 28 in the southern group, 58.9 in the northern storage rooms averaged the following temperatures: 28 in the southern group, 58.9 in the northern storage can be storage and the storage can still be brought down to a better temperature. The jeed cars provided by the Dairy Commissioner's branch are not for the purpose of cooling the butter," concluded Mr. Herns, "Lut rather for keeping butter that has already been cooled, at a low temperature. It is most unfair to those who have good storage for any one to put uncooled butter in the iced car."

Bacteria that will turn old and inferior trands of butter into a product which tastes like the finest of June buttor is the discovery Professor H. W. Conn, of the bacteriology department at Wesleyan University announces. This will help dairymen, as the product will be healthful and extremely desirable. When Professor Conn announced several years ago that he had discovered bacteria that would improve butter, farmers laughed at him, but now they are using the Lac him, but now they are using the bac-

I have always preached the better care of handling separators. There is no separator made but that should be washed every time it is used.—G. A. Gillespie, Peterboro Co., Ont.

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### \*\*\*\*\*\*\*\*\* Does Someone Get Your Share

"Supposing a factory were to adopt pay by test, would it not injure many of the patrons," was asked Mr. J. F. Singleton of the Kingston Dairy School at a recent dairy meeting held in Lindsay. Mr. Singleton replied: "Any injury that might result would

"The people own the money that is

### The End is Not Yet

That the end is not yet, in the production of purer milk in increased quantities and generally raising the standard of Canadian cheese, was brought out by Mr. J. R. Dargavel, M.L.A., President of the Eastern Ontario Dairymen's Association in Ontario Dairymen's Association in addressing the annual district dairy meeting recently at Lansdowne. There is more to be done, particularly in the way of sanitation, more care in

Cheese Denartment protecting milk from impur cleaner stables and milking p impurities. cleaner factories and surroundings, better arrangement of whey tanks and better arrangement of whey tanks and more cleanliness in regard to utennis. As a member of the Ontario Milk Commission, Mr. Dargavel and that he had lately visited farms and dairies in the Ottawa district and was sur-prised at the minute attention paid to cleanliness about the stables and other buildings. He had always thought that his own stables would pass inspection as to cleanliness, but when he saw, near Ottawa, that all

thought that his own statues would plass inspection as to cleanliness, but when he saw, near Ottawa, that all were white-washed, walls and floors, no sign of dirt or dust, the cows brushed and groomed, and udders clipped and washed, he felt that the farmers in the Lansdowne District were away behind in that respect; and it is on that line that improvement should be made. The dairy business, the production The dairy business, the production of cheese, "said Mr. Dargavel, "is a company enterprise. Cheese is sold in England on the general reputation of the country from which it comes; of the country from which it comes; therefore if that reputation is lowered by poor cheese, even in small product of the country of the country from which it comes;

therefore if that reputation is lower-ed by poor cheese, even in small pro-portion to the bulk of production, the price drops, and those who make a really first-class article suffer in consequence. So it is in the interest of every farmer to pay strict and con-stant attention to the little details on his own premises and to influence his neighbors on the same line. That is one of the objects of the Dairymen's Association. That is what the In-structors are for. Success cannot be attained and the standard of quality raised and kept up except by combined action and co-operation of all concerned in the production of milk and the making of cheese."

### Dairy Lessons from the Past Season

J. A. Ferguson, Caintown, Leeds Co., Ont.

At the close of another dairy season it will be well for the dairymen of Eastern Ontario to look back over the past season and discover where mistakes have been made in order that at the commencement of next season, they may begin to profit by

season, they may begin to profit by past experiences.

We have met with many difficulties during the last few seasons. This year the weather conditions in the spring were very unfavorable. Owing to the excessive drought of the pre-tormal conditions of the pre-tormal conditions of the pre-tormal conditions of the pre-tormal conditions of the pre-served of the pre-tormal conditions of the pre-tormal conditions of the pre-served of the pre-tormal conditions of the pre-tormal

slowly. Added to this dimethy was that of the poor condition of the cows on account of the scarcity of feed. The experience of the past few years has taught the farmer of Eastyears has taught the farmer of Eastern Ontario that it is next to impossible to successfully run a dairy farm
without a silo. Since hay and grain
is so searce, the farmers, recognizing
that it pays to keep cows in the best
condition possible throughout the
year, have both
diminished their
herds and increased their production
of corn. Whether this falling off in
numbers is detrimental or not is a
matter which may be regarded from
two standpoints, quantity and quality. wo standpoints, quantity and quality. two standpoints, quantity and quality. Although the quantity has suffered, the quality has improved, for, in most cases, it has been the old poorly-bred stock which has been sold.

But even if the quality of the cows But even if the quality of the law very little effect on the finished have very little effect on the finished

product unless the farmers learn and practise the proper methods of caring for milk cooling and by keeping everything clean. In handling milk, keeping

everything clean. In handling milk, ice is a very essential factor in preserving its original condition. Every farmer should have a supply of ice and could have at a small expense. Then too, every factory should be provided with a cool curing-room. By saving in shrinkage and by the improved conditions owing to the uniform temperature during the curing process, the room will pay for itself in a few years. If the Dairy Commission of the control of the co

sioner had taken a broader view of the subject and, instead of building s.veral illustrative cool-curing rooms, s.veral illustrative cool-curing rooms, had given each factory a sum of money to aid in building a room, I have no hesitation in saying that nearly every factory in the Dominion would have a cool curing room to-day. But now it will take years to accomplish what should have been done lowe are

one long ago.
The Dairymen's Association is do-The Dairymen's Association is do-ing good work in sending instructors to the factories but they do not go far enough. The producer of the raw material needs to be educated. I would advise sending instructors to the farms to encourage and instruct the farmers to deliver milk in better condition. Then, too, besides having instructors for both farm and factory,

time that their faults were shown up

time that their faults were shown up more clearly. Try to educate them, in some way, to reduce them, in some way, to the factories in the east A number of factories in the east have made improvements but a great number have not yet complied with the Sanitary law. It is hardly fair to those who have spent so much money in making things better, to let this go any farther without calling the attention of those in authority who can enforce the law. It is hardly fair to the manufacturers to let the attention of those in authority who can enforce the law. It is hard-ly fair to the manufacturers to let the producer of the raw material do as he likes. It is just as necessary the producer of the raw material do as he likes. It is just as necessary to have the farms inspected as to have the factory examined for quality in the milk is the first essential in the making of cheese and butter of high quality.

instructors for both farm and factory, every maker should take a course in some good Dairy School in order to work intelligently.

There has been too much "patting the farmer on the back," in the past, by the Dairymen's Association. I do not believe in coercion but think it large work of Eastern Ontario.







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Our 1910 Steel Vat is going to be Our 1910 Steel Vat is going to be just a little better than ever before Can't improve much over last year —it was a dandy. The tin lining in this year's vat will be 20 gauge—the heaviest ever used—4 gauge heavier than your local tinsmith with the control of the

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Decem

wasn't later, th was spin the avenues Bim having family grou sitting ent small face t Bim was girl looked head, beggi disturbed; could she he her eyes, bu

"Say," he Janet tur "We're go until we ome things taps you ca toy shop

own grow out into the

they rode for stirred and

You bet! "There's De m—and dr the mere her face alm an order. through poor stop before a door stood h

Janet held come in, Bin to help me o musket and Bim's eyes, ful, childish her sharply; urned, scrar following, for slazy soldier "It's—it's looking up a

had been der his life—it w was unp Janet lifted nail and put nail and put
"Now, for
Bim," she sa
Bim limper
could only po
desirable mus
to the drums, her skirt. B "Say," he ford it? It n

Something throat. To a dollar and lightly down

Cheese Department
Maker-are invited to send contributions to this department, to ask questions on the contribution of the cont

Any injury that might result would only last for a short time. Patrons would all direct their efforts towards raising stock, the milk from which would test high.

received for cheese. They can divide it any way they like, it is up to them. When it is divided on the fat basis each patron gets his own share and no part of the other fel-lows. lows. Is anyone getting part of the proceeds that you should receive? Are you geting part of someone else's share?"

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someon with that kind of ma-chine to sell said you needed disks? We We think not!

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TO educate the heart, one must be willing to go out of himself, and to come into loving contact with others. James Freeman Clarke.



### A Christmas Stop-Over

By Mabel Nelson Thurston (Concluded from last week)

IT wasn't engaged, and an instant later, the cab, with its passengers was spinning smoothly out one of the avenues. Ten minutes later still, Bim having been extracted from a lamily group, whose amazement was all that even the girl could desire, was sitting enthroned before them, his small face transfigured with joy.

Bim was speechless at first. The girl looked at Janet, and shook her head, begging mutely that he be not disturbed; she would have scoffed the strength of the second strength of the second country of the sight, engage the strength of the second country of the sight, engage the strength of the second country of the sight, engage the strength of the second country of the sight, engage the strength of the second country of the sight, engage the sight of the second country of the sight, engage the sight of the second country of the secon

Janet turned quickly.

"We're going for quite a while yet—until we get tired. But there are some things I want to know, and perhaps you can tell me. Do you know at oy shop that would be open to-

"You bet!" Bim responded eagerly.
"There's Dennis'. They've got bully soldiers' things there, with straps on 'em—and drums and guns—"

soldiers' things there, with straps on 'em—and drums and gum—'
The small voice filled with setasy at the mere mention of them. Janet, her face almost as eager as his gave an order. The cal. whe reled about, turned from the smooth avenue south through poor streets, and came to a through some streets, and came to a Janet held out her hand. "Let's come in, Bim," she said. "I want you to help me choose a solder suit and musket and drum."
Bim's eyes, at once shrewd and wist-

musket and drum."

Bim's eyes, at once shrewd and wistful, childish and pitifully old, scanned
ber sharply; then without a wort, he
turned, scrambled from the cal, and
hitched his way into the shop. Janet,
following, found him fingering a
slazy soldier suit with glaring straps.
"It's—it's fifty cents," he said,
looking up at her. The thin voice
carried a note of resignation; fate
had been denying things to Bim all
his life—it was possession for which
he was unprepared. For answer,

he was unprepared. For answer, Janet lifted down the suit from its nail and put it into his arms.

"Now, for the drum and musket,

'Now, for the 'N

Bim," she said.

Bim limped along beside her; he could only point silently to the most desirable musket, but waen it came to the drums, Janet felt a twitch at her skirt. Bim's voice was husky.

"Say," he whisperd, "kin ye afford it? It makes an awful lot."

Something caught in the girl's threat. To purchase paradise with a dollar and a half! But she smiled lightly down at the child.

He drew a long breath of sheer ec-stasy. Then his face shadowed. "But I reckon Ted can play with 'em some-times," he said, with difficulty.

The other girl flashed about. "I reckon he can't!" she declared. "Not unless he treats you better. But I've got one or two things for the kids," she added shamefacedly. "I didn't get them anything before."

"Let's get something for each of them," Janet suggested eagerly. "Bim can tell us what."

They poked about the little shop, ex-They posed another the increasing, ea-ploring and discovering. Finally loaded with purchases, they climbed into the cab again and looked at each other the girl doubfully, Bim breathlessly. Was the fairy tale over? Janet pulled out a tiny gold watch,

"I thought so," she exclaimed. "I didn't eat much breakfast, and I'm hungry. I think the next thing must hungry. I think the next thing must be lunch. Let's go to the New Wil-

Is Stop-Over

\*\*Iss Stop-Over

\*\*Ison Thurston
on last useek;

"It hink I can afford it. Christman
comes only once a year, you know."

Bim said nothing for a moment.

Ison comes only once a year, you know."

Bim cligging to musket and drun,
bim cligging to musket and drun,
bim cligging to musket and drun,

though finally persuaded to leave the soldier suit in the cab, they followed the waiter down the dining room. But when she saw the menu the girl capitulated.

"We ain't been introduced-me and

"We sin't been introduced—me and these things," she said. "I guess you'll have to do the say-so business."
"You shall try." Janet gleefully ordained, "every single thing you never tasted before. I know just how you feel—it's the way I did when I went to an Italian restaurant once, But it's ever so much fun—truly it is, or we wouldn't do it."

It was ever so much fun. Before It was ever so much fun.

It was ever so much fun. Before long, all the waiters and guests in the room were sharing in it. But nobody at Bim's table cared. They recklessly, condemning some of the chef's most famous achievements, gaycher's most ramous achievements, gay-ly patronizing others, eating little in reality, but thinking that they were eating a great deal, till Bim's cestasy reached its culmination at the apreached its culmination at the ap-pearance upon his pince of a pea-green and rose-pink horse, which in-vestigation proved to be "ice cream!" Bim cried in a stage whisper that thrilled the room.

But it was over at last, and they were out on the sidewalk once more, and Janet looked at her Christmas comrades with a wistful smile. It was curious how reluctant she was to part with them.

"I suppose it's home now," she said. "You don't know the difference you've made. It will be only two hours now, and I can stand that."
"Say," the girl replied, "do you want us to go back with you?"
"Oh, will you?" Janet cried.
"I guess we'll are tried.

want us to go oace with your.

'Oh, will you?' Janet cried.

'I guess we'll stand by, all right, won't we, Bin? We'd be preity low down if we didn't.' de preity low down if we didn't.' de preity low down if we didn't. He too, could make a Christmas gift; he divined it, though he could not put it into words. He could wait two hours, with his hands itching to put on that uniform. Back in the station, the matron. Back in the station, the matron greeted them like an old friend.

'I was wishing you'd come,' she said. "You'd have had your children now, if you wanted them, if he waiting room, where, encamped, Janet's eager eyes discovered, Italy; two little brown. room, where, encamped, Janet's eager eyes discovered, Italy; two little brown gayly kerchiefed women, surrounded by a small, surging mob of children. Some ver laughing, some crying, but all were brown, dusky-eyed, and

adorable.
"Oh!" Janet cried, with a quick breath, and then she made a dash across the room.

The little brown woman looked up with interest at the so curious, but with interest at the so curious, but still attractive, young lady who seem-ed in the very great hurry. They shook their hads in answer to her eager questions; only one, trying to hush a wailing child, smiled brilliant-ly, and remarked. "Honoree."

hush a wailing child, smiled brilliant-ly, and remarked: "Hongree."
"Hungry." Janet echoed pitifully.
"Hungry—on Christmas Day!" She snatched up one of the babies and nodded imperiously to the girl and Rim.

"Come and help!" sne cried. "We're going to the restaurant!"

They came—Bim eager, the girl outwardly deliberate, inwardly pleas-

"It's a pity they're so afraid of dirt" she remarked. What do you want me to do, anyhow?"

want me to do, anyhow?"

"I don't exactly know—maybe if you'd pick up that little one in the blue dress—that's right. Mercy, do they think we're going to eat them? Oh, why don't I know some Italian? Do you suppose they'd understand macaroni or banana? I grees the best way will be to hurry them through to the restaurant, and then they'll to the restaurant, and then they'll have to understand."



HERE is a better thing than the observance of Christmas Day-and that is, keeping Christmas.

Are you willing to forget what you have done for other people, and to remember what other people have done for you?

Are you willing to stoop down and consider the needs and the desires of little children; to remember the weakness and loneliness of people who are growing old; to stop asking how much your friends love you, and ask yourself whether you love them enough: to try to understand what those who live in the same house with you really want, without waiting for them to tell you; to trim your lamp so that it will give more light and less smoke, and to carry it in front so that your shadow will fall behind you; to make a grave for your ugly thoughts and a garden for your kindly feelings, with the gate openare you willing to do these things even for a day? Then you can keep Christmas.

Are you willing to believe that love is the strongest thing in the world -stronger than hate, stronger than evil, stronger than death and that the blessed Life which began in Bethlehem nineteen hundred years ago is the image and brightness of the Eternal Love? Then you can keep Christmas.

And if you can keep it for a day, why not always?

But you can never keep it alone.

-Henry Van Dyke



The plan of campaign outlined was a comradely smile. Dut Bim, I can discuss, but presently a silence fell compily carried out. Janet, with see is wild to waken the echoes with upon them. The man was the first promptly carried out. Janet, with two babies, the girl with one, and Bim with commanding hand upon one of the boys, they tropped into the restaurant, followed by the excited, gesthe children. Janet was right—they understood, then. In an incredibly short time, the families, ranged upon stools along the lunch counter, busy with soup, sandwishes, olives fruit, and even pie. It was an absorbing occupation. The girl drew a long breath when at last her particular division began to show signs

of repletion. "Say, that's the biggest stunt I've done in a year; Christmas bargain counters aren't in it. I don't believe they'd had anything to eat for a month. Will you look at that kid She's going to sleep with a Lanana in her mouth! It strikes me it's about It strikes me it's about time to quit, else they'll all be doing high tumbling off these stools. There another, putting his head in the bowl!

"Just a minute," Janet's distracted voice responded. "I've got to pay, and they're counting up. Did you ever see children get sleepy so fast? There, now, I think we're ready, and the procession can start. Hold up your head, Brown eyes-Oh, please, just two minutes.

She caught the child's hand, softly shook her awake, snatched a swaying baby from the nearest stool, gave a hasty glance about at her lieutenants, and then the procession started. A train had just come in and there were a few passengers trickling through the waiting rooms; they all turned and stared curiously at the stylish young woman, apparently leading an Italian kindergarten, with a supplement in the shape of a small white-faced cripple. A young man hurrying across the room, gave a casual glance, wheeled promptly and headed off the kindergarten.

"Janet!" he cried. "You here!" "Certainly I am here," she replied her accent implied that it was, of all places, the one where one might have expected to find her.

"But— I don't understand."
"I missed my train." Janet informed him loftily. "I was late in and didn't know it, and stopped to buy a magazine——'' The magazine reminded her of something else, and she turned sternly. "But why are you Didn't you get my telegram?'

"I am here because I was detained at the last moment. I've sent three telegrams to your train. Where did you send mine?"
"To Montreal, of course. It was

to tell you by no means to meet me in Smith's Falls."

This delivered in a very firm voice, athough with downcast eyes, because, of course, she had to watch the baty she was carrying, should have been withering, but the young man seemed quite unmoved.
"May I ask," he inquired, with a

meekness which was not at all deceptive, "what are you doing?"
"I am carrying the baby to the

waiting room.

"Ah, yes. Are you going to carry all the babies, one by one? Because it would take considerable time and it would take consucerance time and I might facilitate matters. I know how to carry them without breaking. I've practised upon my nephew, under his mother's eye. And there is no time to lose, you know."
"Why, the train doesn't go until three-fifty," Janet cried.

"No, but you and I do-at least, we leave the kindergarten. I have some things to talk over with you."
"And there's Bim." Janet added, a

see is wild to waken the echoes with that drum. Bim won't interfere. see is while to washing the that drum. Bim won't interfere.
"Janet," with a quick choice of voice,
"where did you find them all?"

Janet choked back a little gasp;

she hadn't realized how hard she had

been fighting to beat the loneliness.
"It—it was Christmas," she faltered, "and I was all alone, with so many hours to wait-I had to comething. It has been fun-really it has. There now, I want you to meet Bim and his aunt—only I don't know her name, and I'd like you to meet all these, but I don't know any of their names. Oh, don't please!"

The last exclamation was one of dismay, for one of the little brown women had darted forward, and was kissing her hand. Janet, flushed and confused, shrank back; it was the young man who somehow quieted things down, spoke a few words to the women, chatted gayly with the girl and Bim, and finally—just how he understood that it was to be done Janet never could remember—stood waving his hat to Bim as the child and the girl rolled away in the taxi. The girl's last remark was still ringing in Janet's ears.
"Say, it's been ripping—we ain't

going to forget it—Bim nor I. And I'm real glad he came along. He's straight goods, all right—I can tell

Janet looked very hard after the vanishing cab—so hard that she kept on looking after it had quite passed from sight. The young man looked at her and seemed well content with the prospect which was not less charmwhen a soft color began to pervade it.

"Janet!"

The tone was not in the least sentimental, but Janet began to talk hur-riedly. "What do you suppose they are doing now at Broadmeadows? I did feel so badly to miss the ride this morning; but, after all, if I'd had that I should have missed Bim. One can ride any day, but I know there's only one Bim in the world. If you could have seen him choosing his mus-

The young man interrupted, without compunction. One might have supposed him not interested in Bim, but one would have supposed wrong. "Do you know," he remarked mu-

singly, "it is very curious."
"What?" Janet asked unguardedly.

"How carefully people conceal their slents. When I think of the hours talents. of laborious argument you have spent trying to convince a certain student of sociology that you never could get in touch with 'people of that kind,' and then when I consider this afternoon's procession, and the eminent success with which you had establishwith people with ad relations even

whom you could not speak—"
"It was the bananas," Janet explained hastily. "Eating is a univer-

sal language.

"So we think at the settlement. That you should have discovered it all by yourself in a tew minutes, reveals a remarkable gift for grasping first principles."

"Go right on—you needn't remind ne." The voice was small and meek "Janet," he cried. "Janet!" "Oh," the girl cried, turning from im with a small, homesick cry. "Oh,

I thought you were never going to get over being stupid.

An hour later, a young man and woman established themselves upon the Broadmeadows train. It was a desolate train, carrying only a couple of shabby and half-empty coaches, but the two seemed wholly contented with their surroundings. Settlement work-ers and students of sociology should "Bing Oh yes!" With quick innot, in all consistency, be critical.
They seemed to have many things to

to break it.

"Janet!

The girl turned an inquiring face. The voice had been abstracted.
"Janet," about that telegram busi-

ness this morning—how did you ex-pect yours to catch me when I told should leave at seven-twenty She leaned forward, and gazed with interest at something in the passing lendscape, but one dimple was still

"That telegram?" she replied.
"Rob, see that holly down in the
swamp—isn't it glorious? Don't
you suppose they'd stop the train for us to get some-being Christmas Day us to get some—being Christmas Day?
What was I talking about? Oh, yes,
the telegram. Did I—Oh, you dear,
big, stupid boy, did I even say that
I expected it to reach you?"

### Receteseseseseseses The Upward Look

### Confessing Christ

Repent ye, and be baptized, every one of you in the name of Jesus Christ unto the remission or your sins, and ye shall receive the gift of the Holy Ghost.—Acts 2, 38.

Last week we pointed out that two of the steps that we must take before we can expect to receive the gift of God's Holy Spirit were involved in true repentance for our sins and in a willingness to give up our own de sires in order that we may obey God in all things. Our text points out a third. It is not sufficient that we shall be sorrowful for our sins and ready to accept Christ as our Saviour, confess Him as such before others. This is what is meant by being baptized. If we have not already been baptized, then we should be and thus acknowledge that we are trusting God to forgive us for our sins. Then, also, it is our duty to confess Christ by identifying ourselves with His church and by being faithful in the performance of our church duties. This involves the making of earnest efforts to lead others to Christ. Christ told us that we are to be judged by our fruits: meaning that we are exothers. This is what is meant by be-tized. If we have not already our fruits; meaning that we are expected to not only show the effect cted to not only show the effect His spirit, the Spirit of Love, in of His spirit, the Spirit of Love, in our lives by being loving, kind, pa-tient and forgiving, but He expects us to lead others to Him. This we will find it possible to do if we are really filled, over-flowing with His

spirit.

Most of us are not filled with God's power as we should be and could be, if we but trusted Him more and ourselves less. This is true even of many ministers of the gospel. One writer says: "There are many ministers of the consideration of the considerat are missing the fullness of power

"God has for them, simply becausthey are not willing to admit the lack there has been all these year in their ministry. There are no a few, who, in their unwillingnes-to make this wholesome confession are casting about for some ingenious means to get around the plain and simple meaning of God's and thus they are cheating them selves of the fullness of the Spirit "selves of the fullness of the Spirit."

"power that God is so eager to be
"stow upon them; and, furthermore,
"they are imperilling the eternal
"interests of the souls that might be
"won for Christ, if they had the
"power of the Holy Spirit which
"they might have."

The may be true of each and every
"they might have."

The may be true of each and every
whom we would like
Christ and we find it difficult to make
Christ and we find it difficult to make

impression upon him or her w should examine our there is not some sin that is hindering God's spirit from working within us. If we have not overcome our pride our temper, our love of ease or other defects of character we need not ex pect to be able to give convincing testimony of the power of God's love our own lives. We are judged by we live rather than by how we n our own lives When we are filled by God's Holy Spirit our sins fall from us and those around us are quick to feel and see the change that has taken place in our lives. By confessing Christ, openly as our Master, we simply take that means of letting others know that it is through Christ's power that that it is though the victory over our sins and thus let them know that Christ is able and willing to help them in the same way. We must, also, ask God for the gift of His Holy Spirit. This subject of asking, however, must be held over for another week.—I.H.N. ...

### Keeps Excellent Time

One of the best premiums we have to offer for boys and girls is our exto offer for boys and girls is our ex-cellent nickel watch. This is given away absolutely free, for two new subscribers. Miss Edith Lamb of Brantford Co., Ont. writes us. "The watch I received for my club of two subscriptions to Farm and Dairy, keeps excellent time and I am much pleased with it. Here is a chance for every boy and girl to earn a good watch for themselves. Get busy to-day. Samples will be sent you free, if you write our Circulation Manager.

. . .

Tea kettles would last longer after use, they were turned upside down to drain dry. It is a little drop down to drain dry. It is a little drop of water left at the bottom which starts the rust that ends in a leak. ...

Renew your subscription and send for one of our Musical Folios. They are sure to please you.

One New Subscription to Farm and Dairy



The best premium offer yet. Patent nickel Tension Shears

Shears that are always sharp; always ready to cut anything and every-thing. The best shears for every purpose in the household. Best nicket 8 inch Tension Shears given away absolutely FREE for only ONE NEW SUBSCRIPTION to Farm and Dairy.

CIRCULATION DEPT. FARM AND DAIRY, PETERBORO, ONT.

Just as s May flowerly Dece inevita shops and with sugge ready mon ng day. some of u we cannot our balance while to s great store of people oranda in and busine robs Chris what would gayest of a ith holly. mystery ev

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### Christmas Tide

Just as surely as April showers bring May flowers, just so surely do the early December days, breather the early because the early the early because the early the early the early the early the early "AUNT FAITHIE" from the through the through of people with one set faces, mean for people with one set faces, mean for people with a find making merchandise in hand, making merchandise in the properties of the people with the people with

action. There is not half the joy in buying the valuable gift that the little girl of long ago felt, in making it that the little girl of long ago felt, in making it the time seems to be considered the little girl of long ago felt, in making it the time seems to be considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the little girl of long ago felt, in making it in considered the long. It would be better for them to book. It would be bette

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



Ball-barring means easy running.
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the motion, make quick work and
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Embroidery Designs

Dodges illustrated in this coumn will be furnished for 10 cents each.

Will confer a favor by writing thoushold Editor, asking for same. They will be published as soon as the confer a favor by the published as soon as the confer as th

### CHILD'S CAP AND BIB 650!

Embroidery Pattern for Cap 451 Embroidery Pattern for Bib 448

Cops and bits embroidered by hand are their making involves and their making involves and their making involves are their making in the making in



meaning any great amount of labor. In the il-lustration both caps and bib are made of handker-chief linen but all matericle. chief linen but all materials that are used for caps and bibs are ap-propriate, Silk is much liked for caps and is al-can be made of

ways pretty ways pretty. Ine 510 can be made of hinner or heavier material.

The pattern 6505 is cut in sizes for 6 months, 1 and 2 years. The embroidered patterns 451 and 448 will be matied to any address for 10 cts. each.

CORSET COVER WITH PEPLUM 6499

sort. It is simple, fin-ished with a box plait at the front and with a peplum at the lower

The quantity of ma

Embroidery Pattern 467. Corset covers that are embroidered by hand are the daintiest of all. This one shows a simple yet effective design and can be made from nainsook, lawn or any material that is used for garments of the sort. It is simple, fin.

The quantity of material required for the medium size is 1½, yds.

The pattern 6495 or 1 yd 44 in wide.

34, 35, 36, 40 and 42 in bust; the embroidery pattern, No. 467, in one size only. Price of patterns, 10 cts for each.

has grown into usefulness so that a cheaper hired man will do. We all know money comes in slowly on the farm and the work is hard. The hours farm and the work is hard. The hours are very long, and sometimes lonely, and although Nature is a very so-ciable companion, it will grow monotonous if one is associated with it from five o'clock in the morning till after dark at night, with an imported hired man watching all day that he does no more work than the boy. Again how often the farmer's son is kept from school because of his usefulness until he gets behind and gets discouraged and sometimes the

The Piano

Which Everyone Can Play An ordinary plano is limited

in its usefulness. If no one

in the family plays, it stands idle. This Piano is never idle-

every one in the family plays it.

P

**New Scale Williams** 

Player Piano

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OUR HOME CLUB

THE BOY ON THE FARM

of the sons of the poor farmer, but of the well-to-do ones who have found success after years of hard work and hard saving and also after the boy

I would like to shake hands with I would like to same hands with "Aunt Faithe." Surely size is the right one to champion the farmer boy's rights. I have often felt the same convictions regarding the boy on the farm and wondered way so many stayed and endured it. I am not speaking and don't think she was

father seems almost glad because any other ambitions the boy may have had are over and he will make a good worker even if he is not lighthearted...")Det."

Patterns 10 esch. Order by number 20 per by number 20

### CHRISTMAS THOUGHTS

Now that thoughts of Christmas are Now that thoughts of confishings are filling our minus and causing the heads of families some anxiety re-garding whatever they will give, it might not be out of place to say a word regarding it? First le us get word regarding it? First le us get the angew's song interwoven into our hearts and lives; then let all our preparations of r the home-comers pro-ceed from that "peace on earth, good will toward men," and see how much easier it will be four to prepare and cost through the home. casier it will be for us to prepare and get through the busy season. We know that lite weight of the work falls on the homekeeper and if the home comers just help a little, how cheery and encouraging it is for the mether to think that the children re-mether to think that the children re-mether to think that the children re-order to the company of the con-traction of the con-traction of the company of the com-ling of the grown us some and daunch

If love to think of the forme coming of the grown up sons and daughters. How proud the little mother is of them all, they are her little children once more and as she playfully reproves one and kisses another she is

young again amongst them.

Let us thank God for the Christmas time.—"Aunt Eva."

### OUR GIRLS ON THE FARM

We hear a great deal in these days of the "lure of the city," and the craving for unhealthy amusements craving for unhealthy which draws young people there. Now the subject "How to keep the Boys on the Farm," has been pretty thoroughly discussed, so let me say a word for e girls.

In nine cases out of ten, it is no longing for mere pleasure, nor is it any innate depravity, as some good people would have us believe that takes country girls to the factories and offices in the city. It is simply the desire, natural enough too,—for money of their own which they may arend as they please. In nine cases out of ten, it is no

the desire, natural enough too,—for money of their own which they may spend as they please.

The remedy is simple enough,— why not try it? Make your daugh-tor a regular allowance. Believe me, she will be satisfied with much less than the hired helper who would be a than the hired helper who would be a than the present the presence of the strike your home. Mostern call strike your home. Mostern call thired help could take the place of the hired help could take the place of the daughter of the house? The girl who daughter of the house? The girl who gives you cheerful service day after day, who attends to the thousand and one duties of your house as a matter of course, who entertains your guests—in short the girl of whom you are proud enough when you take time to think about it.

Make your daughter as independent the course of the c

favor on your part, and I believe very few country girls will have any desire to leave their comfortable homes for the crowded "hall bed-rooms" of a city boarding house.—"A rooms" of a city boarding house.-

unlocks the hidden treasures of unlocks the hidden treasures of the world's music. Everyone can plays it—and enjoy his or her favorite music, be it what it may. New Scale Williams Player Plano is a double delight—it gives you the superb New Scale Williams Plano, and the ability to

play it. Made with 88 and 65 notes—in a variety of magnificent designs.
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### FARM AND DAIRY

PETERBORO, ONT.

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

**จ็อออออออออออออออออ** PRINCESS GOWN 6498 This model include:

a long panel at the front. It can be made either to clear the ground or in round length and round or in length and

town the property of the consequently is adapted both to simpler materials and to handsomer ones. The dress is made with the panel and the skirt. The skirt is laid to a box plait at each side and in single platts at both the front and back.

Material required in the front and back. Material the front and back with years of the core 5% yds 52 in wide with % yd of silk and % yd of silk and % yd of silk and % yd of allever lace.

The pattern is cut for a 54, 55, 58, 40 and 42 in bust and will be mailed on receipt

GIRL'S SCHOOL SUIT 6501

The school that is made the loose with blouse the loose blouse turned up and fin-ished with a facing in fishwife style is the most fashion-able. This model can be made of two ma-terials as in this in-stance or of one as liked. The combina-tion of plaid with plain material is

smart.

Material required

Material required for medium size (12 yrs) is for the blouse 2 yds 24 or 27, 1½ yds 25 or 1½, yds 44 in wide; for the skirt and trimming 3½ yds 40 or 27, 3% yds 32 or 2%, yds 44 in wide. The pattern is cut for girls of 8, 10, 12 and will be mailed on

and 14 yrs receipt of FANCY BLOUSE OR CHEMISETTE 6473

The pretty dress; at the front makes one of the novelties of the season. This the season. one also shows new fancy sleeves are attractive. that

Material required for medium size is 3½ yds 21 or 24, 3½ yds 32 or 1½ yds 44 in wide, with ½ yd 18 in wide for the chemisette, % yd of satin for banding.

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

BLOUSE OR SHIRT WAIST 6500



The shirt waist with a yoke is one of the smartest just now. The yoke is out to form tabt that give a novel of fect, and the sleeve with their deep cuffs are new and comfortable and smart. Material required Material required for medium size is 4 yds 24 or 27, 3% yds 32 or 2% yds 44 is wide with % yd of contrasting material for painty.

for piping.

The pattern is cut for a 32, 34, 36, 3 and 40 in bust and will be mailed on receipt of 10 cts.

1000001 COMPTO farmers as will pay the ing better will go out 86 and 86.2

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Récees

**OUR** 

SYDNEY ies are clos have had th most part, hay, \$14 to ton; loose, ley, 65e to \$23; middling

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to 38e a doz toes, 45e to to 850; beef, ACTINOLIT

weather just been fine all exception of about two w ice storm the locality. It to orchards shrubs. We keys and all demand, and last year. T probabilities th VI

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QUEBEC

COMPTON CO., QUE.

COMPTON CO., QUE.
COMPTON CONTRE. — Hay is holding
out better than was expected. Although
are wintering a small stock it
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and the control

Our FARMERS' CLUB composition of the contributions invited.

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Ontributions invited.

PRESCOTZ. — Parm produce realizes the

PRESCOTT. — Farm produce realizes the following prices: Timothy hay, \$15; clev. er, \$15; cats, 40c; bran, \$2c; middlings, \$25; gluten feed, \$85; fresh eggs. 40c to \$5c; creamery butter, \$2c to \$5c a bly, dairy butter, \$2c to \$7c; potanoes, \$36 a bushel: milch cows, \$55 to \$80; bef \$2/c\$ to \$3c; hogs, \$9.75\$ to \$8 a cwt; hides, 15c a bl.—G. W. O.

ELGIN CO., ONT.

STAND THE CONTROL OF THE CONTROL OF



Lilie-3017-(Vol. 6), to be Sold by Public Auction Dec. 31st, 1909 The cow illustrated above is but one out of the Holstein herd, owned by R. D. Martin, Elmira, Ont., to be offered for sale by public auction. The stock offered in Mr. Martin sliepersion sale is the kind that has had to pay its way at the pail, and is bred from noted strains.

band is orea from noted strains.

5 85 a don; creamery butter, 25c; potations, 45c to 50c a bag; milch cows, \$40 to 50c a bag;

VICTORIA CO., ONT.

we had 780 bush. of wheat, which we sold for \$1.52 a bushch."—J. E. D.

PORT STANLEY. — The fishing industry of this place has been booming this report of the place has been booming this place has been been been been and the state of the flam, because the state of the flam, because the state of the flam, because the same has some from her waters this year. Captain Berry's tup brought anamont come the sets, the other day a mammont come the state of the same than the state of the same than the state of the same than wooddyntile.—The weather has been all that could be desired up to the present, and the farm work is well up. Threshing is still in progress. The bulk of straw is not large on an average but the grain led to the present, and the farm work is well up. Threshing is still in progress. The bulk of straw is not large on an average but the grain of the large of the large cities of our friends to since the properties of the proper

## 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 PACTORY

\$8.00 a Cwt. FOR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH,

HULL, -

BRANTFORD

The apple crop, which was a large one, is nearly all marketed. Shippers and packers have reaped the benefit by being fined anywhere from \$10 to \$600.—R. R. S.

BRANT CO., ONT.

BRANT CO., ONT.

ST. GEORGE. — Hain today, so one can hardly call it typical winter weather. It translates the control of the

evenings reading that excellent journal, Farm and Dairy, whose columns are flooded with useful and instructive information. Practical farmers use such knowledge.—B. B.

blob. Practical tarmers use such know-ledge—B. B. DLESK CO., ONT.

MELBOUINE.—From this shatton much grain and live stock has shatton much grain and live stock has proved. This is not a dairying district; there is not a cheese factory near here. The spring crops, although sown late and the land poorly worked, yielded better than was poorly worked, yielded better than was good advice. Boys. If you ever get a good drive. Boys. If you ever get a good crop from late sowing never tell your children about it. Waaning, of course, to be alert to sow early, if good ed. The hay cheef from labor expend-ded. The hay client the sowing the con-were good. This township of Caradoc is noted for its potato culture outside the markets of this province—J. E. O. LAMBTON CO., ONT.

restive birds of Christmas sell at 22c to 22c a bi. At a recent sale pigs weighing of an average, 66 lbs. sold for 87 each, and average, 66 lbs. sold for 87 each, and a straight of the sale of the sold of the sale of the s



The Peter Hamilton Co., Limited Peterborough

### MARKET REVIEW AND FORECAST MAKKEI KEVIEW AND FORECAST

Torento, Monlay, December 20 — Reports received from one end of the Domestic State of the Company of the Compan nothing able for investment. Possibly nothing shows more clearly to what a height of prosperity Canada has attained than the budget speech of Hon. W. 8. Fielding, in which he stated that there was a sur-plus of no less than \$15.50,000 available for the current year. In the past five years deposits in Canadian banks have increased from \$23,000,000 to \$732,000,000. WHEAT

Wheat is still advancing, December closing in Chicago on Friday at \$1.1%, May wheat at \$1.11%, and July at \$1.00%, the highest price each has respectively attained this season. At Winniper also wheat took a higher turn owing to heavy export domand, December wheat closing at \$1.00%, and May at \$1.00%, At Liverpool and all the Buropean centres there is a slight upward tendency in price. The visible supward tendency in the su bushels as against 55,345,000 bushels in 1905.
On the local grain market prices ruled as follows: No. 2 mixed winter, \$1.04 to \$1.05.
No. 2 white, \$1.05 outside: Manitoba wheat, No. 1 Northern, \$1.09 \( \); No. 2, Northern, \$1.00 \( \); Northern, \$1.00 \( \); No. 1 Northern \$1.15 \( \); No. 2 Northern \$1.51 \( \); No. 2 Northern \$1.51 \( \); No. 2 Northern \$1.51 \( \), all all all wheat sold at \$1.07 \( \) to \$1.00 \( \); goose wheat, \$1.00 \( \) to \$1

### COARSE GRAINS

The price of oats remains unchanged from last week's quotations, Canadian westerns, No. 2, selling at 40c and No. 3 at From last week's quotations, Canadian westerns, No. 2, selling at 46 and No. 3 at variety of the control of the

### HAY AND STRAW

HAY AND STRAW

The price of hay is unchanged from last week, although there is plenty coming in to the market. At the farmer's interest of the state of the state

### POTATOES AND BEANS

POTATOES AND BEANS
Trade in postatoes is slack and likely to remain so for some time. On the farmers' market the price quoted is 70e a bag, and in car lots on track. Toronto, the price quoted is 50e to 66. In Montreal professional states of the state o few weeks. This improvement may be due merely to a passing flurry, and again it may mean the beginning of a steady upward trend in the market.

### EGGS AND POULTRY

EGGS AND POULTRY
Eggs are still advancing in price, Receipts are light all over the country, and
so 'Ottawa fresh laid are quoted at \$6 - a
dozen: at Montreal at \$60, and on the
farmers' market here at \$6 to \$5 - a
dozen. Storage stock here is quoted at
\$28 - a dozen in case lots. In Montreal selects are selling at 28c to 28% cl in round

lots and 29c in a jobbing way. Receipts of poultry are very light and the whole-sale market shows quotations of 1c to 2c a 1b higher than a week ago for tur-keys, ducks and chickens. Local whole-sale quotations are: Turkeys, dressed, 19c keys, ducks and chickens. Local whole-sale quotations are: Turtievs, dressed, by to 52e; geese, He to 12c; ducks, He to 15c; t

### APPLES

re continue to be complaints from sh buyers in regard to the infer-quality of fruit that exporters are ng over to that country. We are English ior quality of fruit that exporters are sending over to that country. We are told by prominent importers on the other side that the whole crop is being preju-diced owing to the unreliable quality of the shipments, many of which when open-ed give unmistakable evidence of having been touched with frost. The consequence is that the sale of Canadian applies is by a the consequence of the consequence is that the sale of Canadian applies is by a barrel according to qualities and the con-market applies. On the local farmers' a part of the consequence of the con-traction of ior quality

DAIRY PRODUCTS Receipts of creamery and dairy butter have been moderately heavy throughout

heavy draught sort. About three car-loads were shipped this week to different points in the North West and Ontario. Speeding horses and drivers seem to be at a discount for the time being, excreely a sale being recorded in this class during the week. Prices ranged about as fol-lows: General purpose, \$135 to \$150; lows: General purpose, \$135 to \$150; lows: General purpose, \$155 to \$210; and services was an except the services of the services and services was an except the services of the services of the \$150 to \$210; and services was an except the services at \$25 to \$210; and services was a service at \$25 to \$250; \$150 to \$250; and services was a service at \$25 to \$250; and services the services at \$25 to \$250; \$150 to 860 each. LIVE STOCK

market towards the latter part of the week was sluggish compared with the first two or three days. On Wednesday there was a tremendous run and prices ran in some cases, for prime Christmas cattle as high as \$10 a cwt, On Christmas cattle as high as \$10 a cwt, On Priday there was a notable falling off, owing to the fact that most of the good unality had been purchased leaving the Good of the good unality had been purchased leaving the Development of the Good of th

um. \$8.50 to \$4.50.

Milch cows, choice, \$45 to \$60 each;
common, \$35 to \$40; springers, \$40 to \$50;
common to \$4.40; rams, \$2.50 to \$5; lambs,
\$6.00 to \$6.40; calves, \$3 to \$7.

Hogs, f.o.b., \$7.80; fed and watered, \$7.85.
The Trade Bulletin's London cable

Sir Pietertje Posch DeBoer, No. 3362 C. H. B. 34884 A. H. B.

His sire has 12 R. of M. daughters. His sire's dam holds world's latter record for 2 years, 662 lbs. milk; 72.68 lbs butter 1 week. He has 14 A.R.O. sisters on sire and dam's side, including his full sister with records made at 1.2 and 5 years, 152.84; 15.5; 20.13 lbs. 7 days. His dam and sire's dam have official records that average 25.77 lbs. hutter 1 week; 25.6 milk day, Has one R. of M. daughter tested as yearling. Twenty of his sons and daughters in sale, Riverside Farm, Dec. 50th.—Advt.

the week; the demand is good, and there are no surplus stocks in sight. Whole-sale quotations are a great that the sale quotations are a great to the sale quotations are a great to 26c; the sale to 26c; the sale to 26c; the sale to 26c; the sale to 26c; the or of the or of the or of the sale that the or of the sale that the or of the sale that the sa the week; the demand is good, and there says: Canadian No. 1, 67s to 69s; No. are no surplus stocks in sight. Whole-

Seed prices are firm and are quoted as Seen prices are nrm and are quoted as follows, at outside quotations: Alsike, 1st quality, 86.50 to 86.75; 2nd quality, 86 to 86.25 and 3rd quality at 85.40 to 85.85 a bushel; red clover from 87.25 to 88.50, according to quality.

### FEEDS

Montreal reports Ontario bran Montreal reports Ontario bran un-changed from prices current last week, viz. \$20 to \$21 a ton; Manitoba shorts are also unchanged in price; oat feed, \$31 to \$32 a ton off track. Mill feed prices on the local market are: Bran, \$25 to \$22 and shorts, \$25 to \$24 a ton, on

### HORSE MARKET

This season of the year is always the dullest in the horse trade, but a good many horse changed hands last week, notwithstanding, at the West Toronto Exchange. Westerners were again heavy buyers, their choice running to the

66s to 68s; hams of popular size are scarce and there is a good demand. Can-adian long cut green sells at 76s.

### MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montreal, Saturday, December 18th.—The market for live bogs opened easy this market for live bogs opened easy this market by the same than the same

### EXPORT BUTTER AND CHEESE

Montreal, Saturday, December isth.—
The demand for cheese for export continues duil and the market here is very
quiet, with little business doing. Hold-ers are firm and confident of the future
and the not inclined to force sales by relate to inclined to force sales by relook for an improved demand after the
New Year, especially in view of the advices from the other side indicating a
smaller make in New Zealand than was
maller make in New Zealand than was
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to the control of the small contr Montreal, Saturday, December 18th. he demand for cheese for export c was largely responsible for the small speculative trade in Canadians this season and with a normal supply from that quarter the demand for Canadians dur-

Warranted to Give Satisfaction. Gombault's **Gaustic Balsam** 



Has Imitators But No Competitors. Safe, Speedy and Positive Cure for Curb, Splint, Sweeny, Cappea Hock, Strained Tendons, Founder, Wind Fulls, and all lamenees from Spavin, Ringbone and other bony tumora-Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

summers from Morses or Cattle.

8 Human Remedy for Rheumatism, ins, Sore Throat, etc., it is invaluable ery bottle of Caustie Balsam soil cranted to give satisfaction. Price \$1.00 ranted for the control of the con

The Lawrence-Williams Co., Toronto, Ont.

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

FOR SALE.—Iron pipe for water and steam, all sizes and lengths; also pul-leys, belting, shafting, etc., theap; write for free list, stating what you need. Imp. Waste and Metal Co., 11 Queen St.,

IF YOU ARE LOOKING for a positi place an advertisement in this colur The cost is small—returns large.

AGENTS wanted to represent Farm GENIS wanted to represent saim of the pairy throughout the counties of North-umberland, Peterboro, Ontario, Victor-ia, Hastings and Durham. Good com-missions given. For further information write to Circulation Manager, Farm and Dairy, Peterboro, Ont.

ing the winter above considerable improvement. Finest Ontarios, white and colored, are quoted on this market at from 11 %c to 12c a lb, with Townships and other Quebec makes at 11%c down to 11c, according to quality. A few underfinest and tail end lots can be picked and the property of the control of the property of the country is dusting a general shortage in the supply outside of Montreal. If this trade continues through the winter, the

the supply outside of Montreal. If this trade continues through the winter, the stocks here, though anny, will not be sufficient to supply the demand. Finest Exatern Townships creamery butter is reached at 25½ to 25c., with ordinary forward at 25½ to 25c., with ordinary forward for the supply is very small.

In the Gossip matter by J. W. Richardson, in Farm and Dairy last week, that part which said, "18 heifers, 2 years and under, all old enough to be either in culf of in mile," should have read, "18 heifers of the choice olds or under, making one of the choice lots were offered by public auction." auction.

Black Watch Black Plug The Chewing Tobacco



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### HOLSTEIN-FRIESIAN NEWS

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

BULL TRANSFERS FOR NOVEMBER, 1909

ers' Association:

paid for Dy the Holstein-Frieslan Breeders' Association:

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Calar.ity Snow Ball Posch, Isaac Askin to Allan P. Gray, Burns, Ont.

# ABSORBINE

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### MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE,— Boars 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

### AVONDALE HOLSTEINS

Offers for sale high class Holsteins, all ges. Herd headed by Prince Hengerveld ietji, a son of Pietji 22nd's Woodcrest ages. Herd neases.
Pletji, a son of Pietji 22nd's Wooderest.
Lad—out of Princess Hengerveld, a daughter of Hengerveld De Kol with record to 
25.84 lbs. butter at 25 months. We also 
offer some fine young Yorkshire pigs.
E.T.F. 
choice breeding.

ARTHUR C. HARDY, Brockville, Ont

### AYRSHIRES

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

JAMES BEQQ, Box 88, St. Thor

### 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, E-5-19-10 Riverside Farm, Montebello, Que.

"La Bols de la Roches" Stock Farm Here are kept the choicest strains of AYRSHIRES, imported and home bred. YORSHIRES of the best bacon types. WHITE OFFINATION, WHITE WYANDOTTES and BARRED ROCK Poultry. HON. L. J. FORGET, Proprietor J. A. BIBEAU

Ste Anne de Bellevue, Que.

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

ROBT. HUNTER & SONS Maxville, Ont. E-7-1-10 Long Distance Phone.

IMPORTED AYRSHIRES

IMPORTED AYRSHIRES
Having just landed with 50 head of choice Ayrshires, mostly purchased at the great Barcheshe sale, I am prepared to ill orders for bord heading bulls, selected ill orders for bord heading bulls, selected in the control of the c

R. NESS, Howick, Que. AYRSHIRE CALVES FOR SALE

RECORD OF PERFORMANCE COWS PRICE:-\$35 when one month old

GUS. LANGELIER Cap Rouge, Oue.

CHERRY BANK STOCK FARM

CHERRY BARK STUUR FARM FOR SALE.—Bull calves aired by Neth-chail Milkman, the champion bull of sired by Morton Mains (goestly, Junior Champion at Toronto, 1905, and by Neth-erhall Dois Fact, a grand Imp. heifer, and rehall Dois Fact, a grand Imp. heifer, and satisfaction guaranteed. Nothing but the best, is our motto. Visitors welcome. F. D. McARTHUR, Morth Georgetown, Howick Sation 042519 Que-

### HOLSTEINS

### MAPLE LEAF STOCK FARM GORDON H. MANHARD

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 SALF, HOLSTEIN BULL CALF Born, Dec. 31. Dam's official record at three years old, 486 lbs. of milk and 21 lbs. of butter. Bull calf, born March 18th. dec. Canadian Champion of her age: of the Canadian Champion of her age: of and 20 lbs. of butter. as 48 lbs. of milk and 20 lbs. of butter. as 48 lbs. of milk atock bull, grandson of Sarcastio Lad. Est FOR SALF, HOLSTEIN BULL CALF DAVID CAUGHELL, Yarmouth Centre, Ont

RIVERVIEW HERD

FOR SALE, 2 Bull Oales, sired by Sir Asagrie Beete Segis, son of King Segis, round greatest 5 year old sire, dam Asse-tion of the Sire of the Sire, son of King Segis, round of the Sire of the Sire of the Sire year old—29.36 lbs. butter 7 days, pareding—9. P. J. Salley

P. J. SALLEY Lachine Rapids, Que, E-10-6-10

LAKEVIEW HOLSTEINS LAKEVIEW HOLSTEINS
Herd headed by Count Hengereeld De Rol, son of Pletertje Hengereeld's Count De Rol, son of Description of the Hengereeld's Count De Rol, who has he daughters averaging the butter in 7 days, and whose with a record of days has a daughter with a record of days has a daughter with a record of days has a daughter days. Five bull calves, from 9 months old days. Five bull calves from 10 months of the five bull calves from 10 months old days. Five bull calves from 10 months old days.

E. F. OSLER, Bronte, Ont.

### SUNNYDALE

Offers Hengerveld 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. He is nicely marked and is a good individual of choice breeding. Write for narticulars.

A. D. FOSTER Bloomfield, Ont.

### LYNDALE HOLSTEINS



BROWN BROS, LYN, ONT.

### HOME-BRED AND IMPORTED HOLSTEINS



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

H. E. GEORGE, CRAMPTON, ONT. Putnam Stn., 11/2 miles,-C.P.R... E-4-21-10

HOLSTEIN CATTLE

If you are thinking of buying a cheloe young core are thinking of buying a cheloe young core will sell anything. Have a dozen beautiful heffers aske in call to Runer Hill, Choice Goods (imp.), who has a constant of the butter, the sell of the sel D. C. FLATT & SON, Millgrove, Ont

L. D. Telephone 2471, Hamilton

## HOLSTEINS

WINNERS IN THE RING Gold Medal Herd at Ottawa Fair

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

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

The publication of these transfers is caid for by the Holstein-Friesian 3reed-Aslife Abbekerk's Maid. Estate of J. A. Richardson to Fred Bell. Britannia Bay. On the Bell Britannia Bay. On the Britannia Brit Anltje Abbekerk's Maid, Estate of J. A. Richardson to Fred Bell, Britannia Bay

AUCTION SALE Of 45 HOLSTEIN - FRIESIAN CATTLE AT RIVERSIDE FARM, CALEDONIA, ONT.

On THURSDAY, DECEMBER 30th, 1909

Twenty-eight females, all ages, IJ bulls, including the two great stock bulls, sir Pictertie Posch De Boer, whose two nearest dams average 25.7 like butter, Frince Be Kol Posch, dam 27.2 like butter in 2.2 Riverside Herd represents several of the greatest families of the breed, Johanna, Sarcastie Posch, Wayne, Ormsby, Anggie, etc., Occidentia is on Buffalo and Goderich, Hamilton and Pt. Dover, St. Homas Branch of G. T. R. Trains stop at farm. Reduced Rates. Sale at 1 p.m., under cover. Time up to 10 months on approved notes at 6 per cent.

WELBY ALMAS, Brantford, Ont. E. J. WIGG & SON, Ce juga, Ont.

To whom bids may be sent. A Catalogue ready by December 15th J. W. RICHARDSON, Caledonia, Ont.

## **20 PURE BRED HOLSTEINS**

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

Beaver Meadow Stock Farm, Elmira, Ont.

Friday, December 31, 1909

Sale to commence at 2 p.m.

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

TERMS—All sums of \$25.00 and under, cash. Over that amount ten months credit will be given on approved security, or 7% per annum off for cash payment of credit amounts.

Reduced Rates on All Railroads

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

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## NORTHERN ONTARIO

The Mineral Wealth of Northern Ontario has attracted many people from all parts of the civilized world.

One-ninth of the world's reported output of Silver in 1908 was taken from Ontario Mines.

New discoveries of undoubted richness are being constantly reported from sections far distant from the far-famed Cobalt. Yet a more certain reward is insured to the Settler who acquires for

160 Acres of the Rich Agricultural Lands

Now open for settlem ht and made accessible through the construction of Railways and Colonization Roads.

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The Timber is in demand at a rising price. Mining, Railway and Colonization Road Construction, Lumbering, etc., afford work in abundance to those who have not the means to remain on their farms continually. These also provide a market for farm produce at prices unequalled anywhere.

Cochrane, the Terminus of the T. & N. O. Ry., on the G.T.P. Transcontinental Railway, now under construction, is in the same latitude as the southern boundary of Manitoba, and 800 miles nearer the seaboard.



AN OAT FIELD—C. W. SLADE, TOWNSHIP OF DYMOND, NIPISSING DISTRICT.

That the experimental stage is past is clearly demonstrated. The country is rapidly filling up with Settlers from many of the other Provinces, the United States and Europe.

Anyone wishing to make a Personal Selection can have the assistance of a Land Guide Free of Charge, by applying for his services to any of the Grown Lands Agents.

FOR INFORMATION AS TO TERMS OF SALE, HOMESTEAD REGULATIONS AND FOR SPECIAL COLONIZATION RATES TO SETTLERS AND FOR SETTLERS' EFFECTS, WRITE TO

HON. J. S. DUFF, Minister of Agriculture, TORONTO

THE DIRECTOR OF COLONIZATION,

Parliament Buildings, TORONTO

## IT HEADS THE LIST FOR ONTARIO

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

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

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

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

Subscriptions to be taken at \$1.00 each in both cases

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

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

CIRCULATION DEPT. FARM AND DAIRY PETERBORO, ONT.

# DAIRYMEN'S CONVENTION

The Annual Convention of the EASTERN ONTARIO DAIRYMEN'S ASSOCIATION will be held in

### BELLEVILLE

Wednesday, Thursday and Friday January 5th, 6th, 7th, 1910

Some of the Greatest Authorities on Dairying in America will address the Convention. The public are respectfully requested to attend.

SPECIAL RAILWAY RATES

J. R. Dargavel, M.L.A.

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SECRETARY BROCKVILLE