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# The CANADIAN DAIRYMAN The FARMING WORLD

PETERBORO, ONT.

JULY 8, 1908



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ford Wood Go. HUDSON, N.Y. CHICAGO, ILL. ARLINGTON, MASS.

Taxing Farm Property

Ed. The Dairyman and Farming World,—I notice your item in last is-sue on above subject, and since you ask "What do our readers think about ask "What do our readers think about this?" I take the trouble of express-ing myself. It is not necessary for others of your readers to agree with my statements, but my object in writ-ing is, to get them a-thinking on this matter, and, after they have thought carefully, I shall be satisfied with the decision they arrive as.

carefully, I shall be satisfied with the decision they arrive at.

No more important subject can possibly engage the attention of your readers. If farmers are ever to better their condition they must clearly understand what "Taxation" means, to assert, that not one out of a hundred readers has ever given it any consideration. And yet it is the sword that is everywhere sticking farmers between the ribs, draining them of their heart's blood. That statement may seem strange, but after five years of hard study on it, I can earnestly make the assertion. I know what I am talking about, and I am more than surprised at the conspiracy of silence on this subject maintained by farm papers and agricultacy of shence on this subject main-tained by farm papers and agricul-tural colleges, and other so-called agencies for promoting the interests

of the farming class.

The Dairyman and Farming World deserves the hearty thanks of every reader for inviting opinions on this

matter.

That word, "land tax" does not mean a tax on the land, so much per acre, a firt rate—not at all. A five dollar bill is no bigger than a one-dollar bill, but one is five times as valuable as the other. Similarly, the title-deed to one spot of earth may be much more valuable than the deed to another spot of the same size. The land tax is a tax on the value of the land, exclusive of all improvements.

SITE GIVES VALUE

Now, what gives land its value? Is it not its situation? A farm one mile from town is worth a hundred dollars more than a farm a mile more distant. A farm with a school on its corner is worth more than the same farm would be a mile from school. A farm beside a good road is more valuable than a farm a mile back from heart of a town, village or city, is as valuable as how many acres of farm land situated so as to be useful for nothing else than farming? Farm land grows not in value practically speaking but does town site land ever cease to grow in value? Is the enormous and growing value of town sites not due to the industry of the farmers around Peterboro were to take wings, and fly away, leaving everything behind, what would the town site be worth?

Again, land is not a commodity.

Again, land is not a commodity.

worth?
Again, land is not a commodity,
not wealth, not riches—no, it is not
consumed, or worn, or eaten up, or
destroyed by fire—it is eternal, ever-

lastino,
Again, the value of land is not the creation of any one person's labor. No one man made the town site of Peterboro valuable. No, but it was made valuable by hundreds and thousands in and around. That value is common property, produced by all, belonging to all, and, in the divine economy of things, intended for all. Again, land is not wealth, but the mother of wealth, the source from which is produced by labor, our food, clothes, everything.

that taxing improvements is not fair, it discourages industry, it encourages people not to improve, it is an injustice, and a fraud. It lifts the burden off the man who holds land idle, who holds land for the purpose of "iolling" the labor of some one who wants to use it. Manitoba has not taxed improvements on farms for over taxed improvements on farms for over 20 years, and personal property is entirely exempt too. The improvements, paint, lumber, labor, etc., have paid a heavy customs tax into the Federal treasury, then is it fair to tax them again year by year? Is & fair to assess the man who improves his farm, patronizes the stores, the factories, gives employment, etc., more than the man who holds his place idle, and does none of these things? Is there any sense in killing the goose that lays the golden things? Is there any sense in kill-ing the goose that lays the golden eyes? If we, as a people, can't get honest and just taxation right at home from our councils, need we expect he powers at Toronto and Ottawa to do it fair? Isn't it high time for the farmers to speak to their M. Ps., and demand that improvements be free from local that improvements between the significant of the state of th

less cost of improvements. This lit-tle mater of "local taxation" means millions to farmers, if they only think carefully.

millions to farmers, if they only think carefully.

This letter is already too long but I trust that it will be freely criticized by your readers.

To Encourage Grades

To Encourage Grades
The Holstein-Friesian Association has given a cup for the champion grade dairy cow, at the Calgary Exhibition, provided she be a Holstein, by a pure-bred Holstein sire. This is the first move of any breed society to the first move of any breed society considerable to the first move of any breed society of the first move of any breed society of the first move of any breed society as calculated that while it is according to the grades by crossing with pure-bred sires. In this way, the production of milk and butter-fat may easily be increased too per cent. Besides, the method is within reach of all farmers.

The cup donated at the Calgary exhibition, was the first one to be sent out. Each large exhibition, however, throughout Canada will be givered to the control of the con

en one for a similar competition by the Holstein-Friesian Association of Canada. It is hoped these trophies will encourage competition along this line, in which all farmers can com-pete profitably.

Mr. A. P. Ketchen, B.S.A., Deputy Minister of Agriculure for Saskar, Chewan, died suddenly acceptance of Agriculure of Saskar, Chewan, died suddenly acceptance of Saskar, on Friday night, June 26, as a result of sunstroke. Mr. Ketchen had been addressing a gathering at the plowing match there during the excessive heat on Friday. He was one of the best known agricultural authorities in Canada, and was formerly willing of The Nor West Farmerly Million of The Nor West Farmerly Mr. Ketchen was provided in the Company of the Commissioner for the Dominion, under F. W. Hodson.

spectroprovaluable. No, but it was made valuable by hundreds and thousmade property, produced by allowing the latter part of common property, produced by allowing the latter part of course from the common property, produced by allowing the latter part of course from the common produced by labor, our food, clothes, everything.

The value of land is not wealth, but it is produced by labor, our food, clothes, everything.

The value of land is not wealth. But it is power in the hands of its owner to "toll" the labor of all who use it. Thousands must use a town site, hence its owner is always rich as the result of his power to levy "toll" off ill who use it.

Now, Mr. Editor, with the foregoing facts in mind, I want to say

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AGRICULTURE. THE KEYSTONE OF CANADIAN PROSPERITY

Vol. XXVIII.

FOR WEEK ENDING JULY 8, 1908

## THE NEW MOVEMENT IN AGRICULTURE IN ONTARIO

## The Work Being Carried on by the Branch Offices of the Ontario Department of Agriculture Has Become Popular and New Branches are to be Established.

TF THE experiment now being tried in several counties in Ontario by the Ontario Department of Agriculture proves successful-and the indications are that it will-the time is not far distant when the department will have a representative stationed at some central point in every county of the province. These representatives will be expected to devote all their time to studying the needs and advancing the interests of the farmers in their respective districts. They will be the means by which the farmers of the province will be brought into closer touch with

the officials of the Department of Agriculture and with the Agricultural College at Guelph. At the same time they will make the Department and the College of greater value to the farmer.

As was announced in The Canandian Dairyman and Farming World at the time, the Department of Agriculture, at the suggestion of the capable deputy minister, Mr. C. C. James, made a start in this new line of work about a year ago. Six graduates of the Guelph College were sent out to represent the Department at Morrisburg, Perth, Lindsay, Collingwood, Galt and Essex. They were instructed to feel their way carefully the first year and to let the work develop itself. It was understood that, as part of their work, they would do what they could to introduce the teaching of agriculture in the high schools.

Almost from the outset the experiment has proved a decided success. Already these branch offices have become recognized as centers where the farmers of the locality are able to obtain expert information on almost any conceivable subject relating to agriculture. If the experts in charge are unable to give the information desired they know where and how it can be obtained and they secure it as speedily as possible.

## THE OFFICE AT LINDSAY

Recently a representative of The Canadian Dairyman and Farming World called at the office of F. H. Reed, B.S.A., the representative of the Department stationed at Lindsay. The office consisted of two rooms. One contained a large table and numerous chairs. It was at the disposal of the officers of the local agricultural society, farmers institute or any other agricultural organization that might desire to make use of it. The other room was used by Mr. Reed as his private office and contained his library of books relating to agricultural subjects. Copies of the leading agricultural papers and of the bulletins

While we were there a farmer called at the office and arranged to have Mr. Reed visit his place that day to give him some advice as to how a portion of his farm should be cultivated to obtain certain results. On the following day Mr. Reed was to visit a section near Lindsay to show several farmers how parts of their farms could

issued by the various departments of agriculture and agricultural experiment stations were on file and available for use by any farmer who might visit the office.

R. S. HAMER, B.S.A. A. McKENNEY, B.S.A. Two of the men representing the Ontario Department of Agriculture in the High Schools.

be drained to the best advantage. Not long before our visit Mr. Reed had been consulted by another farmer as to how his orchard should be

Last winter Mr. Reed arranged some short courses in agriculture, lasting several days, that were attended by several hundred farmers and that proved extremely successful. When we left him he was about to hurry off to the high school to look after some experimental plots he had the under cultivation as object lessons for the school children.

One of the results of the work at Lindsay has been the organization of a club composed of the breeders of pure bred stock who I've in that section.

The foregoing will give some idea of the nature of the work that is carried on by these branch offices of the department of agriculture and serves to show how valuable they may become to the farmers near where they are located. As veterinary surgeons are consulted by farmers whenever their live stock becomes sick it is desired

that these representatives of the department shall be consulted by farmers whenever they desire expert information relating to any branch of agriculture but with this important difference: there is no charge for their services.

WHAT HAS BEEN DONE

Desiring to find what has been accomplished up to date in the various centers where the stations are located, The Canadian Dairyman and Farming World wrote recently to those in charge of them, asking for information. Among the replies that have been received is the following from Lanark County. Mention of the work conducted at the other stations will be made in later

R. S. Hamer, B.S.A., of Perth, who is in charge of the work in Lanark county, has written us as follows:

> "The recognition of the value of the results of the new agricultural education propaganda inaugurated in Lanark County last June, is now so widespread that steady progress and future enlargement of the idea is assured. Perth, as a business center, depends almost entirely upon the agricultural resources of the surrounding country and when it was learned that the local Board of Education had succeeded in securing for the Collegiate Institute one of the six agriculturists appointed by the Government, and for the town, a Branch Office of the Provincial Department of Agriculture. the business men of the town were quite ready to support the move. Throughout the county there was naturally at first much skepticism regarding the practical value of the two new institutions but among the more enterprising farmers more general support was given to the

idea than might at first have been expected. With the development of the work and the gradual dissemination of more definite information regarding the aim and purpose of both the Agricultural Office and the school course the support of the farming community has become not only general but cordial.

## THE OFFICE APPRECIATED

"As appears to have been the case at the other points selected, a connection has been formed much more rapidly through the office than through the school. The office has gradually become the center for everything pertaining to agriculture in the district. In the first place it has been able to fulfil its purpose as a bureau of information through which a man may put himself in touch with any source of information he desires. The number of questions which are handled in this way in the course of a week would be a matter of surprise to anyone accustomed to regard the farmer as too independent to seek information regarding matters pertaining

to his business. As people have come to understand the use which may be made of the office they have taken advantage of it very freely, to such an extent, in fact, that it has become necessary to have someone in charge all the time. In addition, the office has become the meeting place of the directorates of various organizations -the Farmers' Institute, the Agricultural Society, Farmers' Club, etc., and also of agricultural gatherings of different kinds. Last winter the newly organized Farmers' Club met in the outer office every two weeks and the attendance of nearly 150 at some of the meetings indicates the interest taken in the subjects discussed. Special questions pertaining to, crops feeding and farm methods and practices were discussed as well as some of the problems which affected the interests of the farming community as a whole. In February, a special Poultry Institute of five sessions was put in which greatly interested the ladics and townspeople as well as the farmers themselves. The attendance at some of these meetings taxed the accomodation to the limit.

GOES THROUGH THE COUNTRY

"My work as representative of the Department of Agriculture takes me into all parts of the country. Last fall considerable i.e. was spent getting in touch with conditions, in inquiring into various phases of general farm operations here and in getting facts and figures pertaining to different branches of the industry. Information acquired in this way has been found very useful in addressing farmers' institutes and other gatherings from a local stan-ipoint. This year special attention is being given to the accumulation of definite and even statistical information bearing on many features of the agriculture of the county.

"Considerable outside work is being done, also, in the way of rendering assistance to farmers in such matters as laying out drainage systems, etc. The reclaimation of immense areas of practically unproductive swamp land is receiving special attention. At several points throughout the county experiments with commercial fertilizers are being tried on different crops with a view to finding the cost of rendering this kind of soil profitably productive. Special work is being undertaken in connection with the different Departments at Guelph, with the dairy commissioner's office in Ottawa and with the Canadian Seed Growers' Association. The work which has been undertaken for this season is more than can be performed by one man and recognizing this fact the Department in Toronto has assigned an assistant to this branch who is associated with me in different duties connected with the office.

## THE SCHOOL WORK

"In organizing a class in the school, I received a great deal of assistance from rural school teachers and from the public school inspector. Our class from the first consisted of eight pupils. This number we were unable to increase owing to limited accomodation in the first year class room. Four mornings of every week are devoted to agricultural subjects. For the remainder of the time these boys constitute a part of the general first form class and take with them the work in grammar, literature, composition, reading, writing, arithmetic and a part of the science.

"The work in agriculture is modelled upon the first year work at the Ontario Agricultural Col." lege. Most of the first year subjects are included in the course but we are not endeavoring to confine ourselves to first year college work. In fact in some branches we have already touched upon a great deal of second year work. While we hope that after two years' in our class a boy will have no difficulty in entering the O. A. C. in the second year class if he later decides to do so, our aim is, nevertheless, to make our course here as self-contained as possible. For this reason, the practical side of every branch of the work is being

emphasized, and the course is adapted as far as possible, to conditions and requirements of this particular district. Purely selentific principles in Physics, Chemistry, Bacteriology, Botany and Entomology are dwelt upon only in connection with their practical application.

"Attention has been devoted chiefly to the study of live stock, stock judging, feeding and general animal husbandry; field crops—seed judging and experimental results; soils—their nature, requirements and improvements, from a physical and chemical standpoint, systems of tillage and rotation, drainage and engineering and surveying in connection therewith; plant life, growth, structure and habit from a botanical standpoint; and last and perhaps of greatest importance in this district, the subject of dairying in all its aspects.

THE BOYS ARE INTERESTED

"In their classroom work the boys are full of intelligent questions and are continually bringing in questions from their neighbors. Their interest in the work is further indicated by the way in which they attend farmers' institute meetings, farmers' club meetings and other agricultural gatherings, without special solicitation.

In addition to the work with the boys of the general course, we ran during three months of the wister, a short course in agriculture. By special arrangement with the business college here a course was put on which allowed boys to take agriculture at the collegiate during the morning and in the afternoon to take a special course in business. This proved to be a very popular course and the advantage taken of it indicated that if continued next winter it can be made a very valuable feature of the work.

"While it is likely that the development of the school side of the work will be more gradual than the grogress made in connection with the office there is every reason to believe, judging by the experience of the first year, that the agriculture option in the Collegiate Course can and will be made a permanent feature of the educational system."

WORK BEING EXTENDED

Readers of The Canadian Dairyman and Farning World will be able to gain a good idea from the foregoing letten of the nature of the work that is being carried on by these branches of the Ontario Department of Agriculture. Already their value is becoming recognized in other sections. Several counties have made application to the Department this year for the establishment of similar offices in their sections. Three new offices, we are informed, will be opened this year, one being at Picton, in Prince Edward country. Thus, already the work is spreading. Where it will end no one can forestell.

## To Get Rid of Twitch Grass

T. F. Raynor, B.S.A., Seed Branch, Ottawa.
Twitch grass is particularly hard to get out
of the land as it gets into the fence corners and
around stumps. It has one redeeming feature,
though, it can be used for pasture. If allowed
to mature for hay, there is danger of the seed
being spread. The best crop to grow where
twitch grass is troublesome is buckwhere.

To fight witch grass successfully, a campaign must be carried on in the dry time of the year. The only thing to do in a wet season is to keep the top down. In the dry time, the best practice is to plow the ground after the twitch grass is nearly in head. After plowing and working up the soil, the roots should be raked to the surface with the cultivator and harrow. The roots of twitch grass are particularly rich in plant food, hence it is advisable to kill them in the ground if possible. If we burn them, we lose a valuable plant food.

The frost of winter can be turned to good ad-

vantage in fighting twitch grass. By practising after-harvest cultivation and ribbing up the soil just before the frost comes, this peat can be dealt a fatal blow. The frost apparently freezes the moisture out of the roots as well as helping the condition of the soil. If such a field is followed with a beed crop, the twitch grass will be pretty well licked.

# Where Does the Cow Get the Milk?

Geo. Rice, Oxford Co., Ont.

Various explanations have been given as to how the cow elaborates her milk. These are mere theories and the inside machinery of the cow is still a mystery. Cows have been fed food containing no fat elements, yet the cow goes on producing milk of the same quality as before. Then again some have fed food rich in fat to increase the percentage of fat in the milk and no increase in fat production has followed.

Nature has given the cow a little "system" of her own; and, after all we are not much concerned as to how the milk comes as to the fact that it does come. Therefore, we will say the milk comes by the cow devoting her "energy" to working this little "system" that nature has implanted in her. A better understanding of the great amount of energy a cow devotes to the production of milk and the great tax is must be upon her system should give the dairyman more light upon the importance of the care and feeding of the cow.

COW REQUIRES MARVELLOUS AMOUNT OF ENERGY We have become so used to the cow producing milk that we take it is a matter of course. We do not stop to consider what a wonderful, great producer of food the milk cow is, and what a marvellous amount of energy she devotes for the benefit of mankind. We have begun to call a cow that produces only 3,000 lb. of milk yearly a "robber cow." Judging her in comparison with others her production seems low. But why is it low? Simply because she may have no more energy to devote to the production of milk. A cow must have energy as well as ability to devote that energy to milk production. Do we stop to consider how much it taxes a cow's system to produce even 3,000 lbs. yearly? No; we figure that if the milk is worth \$1.00 per 100 lbs., and her feed will cost that, to say nothing of the labor, etc., then there is no profit. But, suppose we don't ask her to work in a "sweat shop" but figure her milk at \$2.00 a cwt., then she shows a good profit. But you say \$2.00 a cwt. is too much for her milk, the producer cannot get that price.

A QUART OF MILK IS EQUAL TO A LH. OF HERF Why should the cow not be credited with the food value of her milk? Scientists tell us that a quart of milk is of equal food value to a pound of beef. Then, if beef is worth 6c a lb. oy the quarter, surely milk should be valued at 6c a quart.

Granting that milk weighs 10 pounds to the gallon, which is sufficiently close for our purpose in this article, a cow giving 3,000 lbs. milk yearly, or 1,200 quarts, produces as most food as a fat ox that produces 1,200 lbs. of beef; and she would do it on a great deal less feed. It will be seen that if we allow the 5,000 lbs. a year cow the true value for the food she produces, she is no longer a "robber cow." Or, to put it another way, she is being robbed by the public, made to work in a sweat shop as it were. Such cows need a labor union to go on strike and get a living wage for what they produce.

MILK PRODUCTION GREAT TAX ON COW It is far from our purpose in this article to defend the 3,000 lb. a year cow, but to try to show what a great tax a milk cow really has to put upon her system, and what a great amount of energy she must have to devote to the work. If we want cows to do greater work, then we must supply more energy. This will be shown more clearly by considering the work of the largest milk producers. Cows have produced 100 lbs. of milk a day, or 40 quarts. It would be a mighty good steer that could produce 40 lbs. of beef a day. A cow has produced over 27,000 lbs. milk in one year, 2,700 gallons or 10,800 quarts. Think of a steer producing 10,800 lbs. of beef yearly.

Do we stop to realize what we are taking from the cows. 7,000 lbs. of milk yearly, 2,800 quarts of milk of equal food value to 2,800 lbs. of beef? Just realize what an unselfish, hard working animal the modern milk cow is. Do not such figures show clearly the importance of giving her the very best feed?

FRED DURING LACTATION NOT SUFFICIENT

Under no possible conditions could we feed her anything like the amount of food she produces for mankind. She takes a small quantity of coarse food and turns it into a finer quality of food, suitable for the stomach of the most delicate child. Why the man who says he has discovered the secret of turning the baser metals into gold is not in it in comparison with the humble, unassuming cow, who chews her cud placidly, whilst food that goes into her mouth is turning and turning, revolving and twisting, furnishing herself with sustenance and finally giving up to the dairyman or dairymaid (or calf) the very finest of food.

MILK FROM ENERGY STORED UP IN COW

We talk of feeding a cow for milk, but when we consider what a great increase in value the milk is over the food consumed we must look further for an explanation of the large milk flow. Could we expect a cow to turn the food she eats daily into milk when the cow is producing say, 80 lbs. of milk a day, 32 quarts, equal in food value to 32 lbs. of beef, or into 12 or 15 times the same units of food as the beef animal could produce from about the same feed? Even granted that the cow is a more economical producer of food for the human race, we must look a little further and deeper for the reason why a cow is able to produce so greatly.

It would be more correct, therefore, to say that the milk is derived from the energy possessed by the cow, and from her ability to devote her energy to milk production. We might say it is the feed she is given that produces this energy. But the feed a cow is given at the time the milk is taken has very little more influence upon her production than the feed she is given a considerable time previous. A cow would go on producing milk after freshening, or, even while milking if we fed her nothing at all for some days. This is made possible owing to the motherly instinct implanted in her which induces her to give milk for her young whilst life lasts.

## Farming on a Prize-Winning Farm

Having been asked to give us a description of his system and practice in farming for the benefit of our readers, Mr. Geo. W. McKenzie, of Thornhill, Ont., who won the first prize in the dairy farms competition carried on by The Canadian Dairyman and Farming World last year, has kindly furnished the following information:

"I grow a large quantity of mixed grains, such as oats, with barley and wheat. This mixture I find yields well and makes good feed. This past season I sowed all my barley and purchased bran, shorts and oil cake meal. These, with a few roots and ensilage, make a good ration for my dairy cows. I feed meal twice a day, with clover hay at noon.

"We grow a considerable acreage of corn each When possible, we choose a clover sod and manure it well for this crop. The manure is hauled out every day during the winter as it is made and spread off of the wagon or the sleigh, as the case may be. This manure is plowed in as soon as the ordinary seeding operations are over. We work this ground with a disc and harrow, making a good seed bed. We endeavor to have our corn planted about the 20th of May. We prefer to sow the corn a little thick and as soon as it is up a little, we harrow it. By having it somewhat thick, it will stand considerable harrowing without making the stand too thin. This early cultivation helps the corn and at the same time destroys a lot of weeds.

## USES A CULTIVATOR

"The main part of the cultivation in our corn is done by means of a two horse cultivator. This implement does excellent work, at the same time being easy upon the man, the driver riding and guiding the cultivator with his feet. This cultivator can be used with the best of results until the corn attains a height of three feet or more. We are sowing more corn this year than usual as it comes in very handy for fall feeding to cut green when the pastures are short.

"Every farmer should have a silo. With the silo, one can get a great quantity ready for use at one operation. When building silos, it is better to build two small ones than one large one, for by so doing, you can have one for winter feeding while the other can be used during the summer. Two silos 14 by 28 feet, when built

closely together, are easily braced to the barn or stable and will give the best of satisfaction.

"The most of our grain crops are seeded with clover. In a good season this clover makes a lot of fall pasture. We grow some four acres of mangels of the improved varieties. These mangels make a lot of winter feed and are a good supplement to our silage and other fodders."

## Storing the Hay Crop

N. C. Campbell, Brant County, Ont.

Hay that is put into the barn in so dry a condition that it will not pack well, will not make fodder of first quality. Hay should be taken to the barn with just that amount of moisture which will allow it to settle compactly when treaded down. Such a condition can scarcely be described but is well known to all of us who have had years of experience in making hay. This desirable condition will be approached more accurately where the hay has been cocked and allowed to sweat over night. When taken from a windrow or from the swarth either by hand or by means of a hay loader, it is difficult to tell just what amount of moisture it contains or what condition it really is in. After being cocked for a time and then exposed to the air in flakes, any superfluous moisture which the hay contains is soon diffused in the air and the hay becomes in an ideal condition for hauling.

A quality that is little reckoned with by the casual observer is the aroma of hay. The aroma, though an unweighable quantity, is of real value in rendering hay more palatable. All are agreed that green colored, sweet smelling hay is much to be preferred to the bleached, straw-like product which is too often made. The aroma is best preserved in hay by getting it into the barn as quickly as possible and preserving it from exposure, to dew and rain.

Personally, I always prefer to salt the hay when drawn to the barn, though some of our best authorities upon hay making talk against this practice. It has been my experience that salt renders the hay more palatable and should the hay be stored in an unfavorable condition, it tends to prevent the formation of moulds and mildews, and checks fermentation.

If it is necessary to feed new mown hay, it should be fed with caution. The stock are particularly fond of it and are inclined to eat too much. The new made hay is laxative and therefore should not be fed to hard working horses as their flesh will become soft through its use. Not until the sweating process has been completed in the mow and the whole mass cooled off can new hay safely be fed.



THE HAY LOADER AT WORK ON THE FARM OF MR. D. DUNCAN, OF THE DON.

Mr. Duncan has been using a hay-loader on his farm for many years and probably was one of the first farmers in Ontario to use one of these implements. Some of his hay fields are very uneven but he is able to use the loader in them all. Mr. Duncan may be seen on the hay rake. (Photograph taken specially for The Canadian Dairyman and Farming World.)

## Talks With Farmers

Ed. The Dairyman and Farming World,—This week I visited the far-World,—This week I visited the far-mers in the north-western portions of Smith township, Peterboro County, and found haying (both clover and timothy) well under way, with prom-ise of a good crop generally. "I think that the examination of milk special control of the control of the officials," as and Mr. E. Mahood, "is only right. It goes to ensue the milk reaching the factories and It goes to ensue the reaching creameries in a much sweeter condi-tion, and helps to do away with the kicking about the quality of the milk arriving at the factories. Cleanliness

# AYRSHIRES

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years to several months. Also Tamworth pigs and Shropshire Sheep. Write
for prices. P. A. Gouin, Proprietor, Three
Rivers, Que.
B125-88

# HUME FARM AYRSHIRES

OUT 198 Importation has landed, con-sisting in females of 3 year olds, 2 year-olds, yearlings and caives. In buils, year-lings, and caives, damn record up to 1,100 caives from our own Record of Merit cows and others. Females, any desired age, either (imp. or home-bred. Come and see our herd. Phone in residence. Hoarts Station, 67.12. ALEX HUME & CO., Menie P.O.

## NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Bull. ist prize Toronto, Ottawa and Halifax. Long distance Phone. W. W. BALLANTYNE, Stratford, Ont.

CPRINCBROOK AYRSHIRES FPRINCBROOK AYRSHIRES
are noted for being large producers of
milk, testing high in butter fat. Young
stock of all ages for sale. A few choice
buil calves of 1998 now ready to ship. Prices right. Write or call on W. F. Stephen.
Handlewdon. Que. E11:15-08

## STONEYCROFT STOCK FARM

Harold M. Morgan, prop., Ste. Anne de Belleva. Choice young Ayrahire Bulls and Helfers for sale. Yorkshrip pigs from Imported Sires and Dams, Fobruary and est quality. Write for prices. ... High-est quality. Write for prices. ...

THE SUNNY SIDE HEREFORDS ...FOR SALE—A choice herd of 10 heifers and 8 buils, from 10 to 24 months old, at bargain prices; also a few cows with calf by side, and bred again, can be spared. E-9-25

M. H. O'NEIL, Southgate P.O. Lucan Stn.

THE HOMESTEAD HERD OF ABERDEEN ANOUS CATTLE. Present Offerings: 8 months old bull, sire a Toronto champer of the control of th

Salem Herd of Shorthorns is headed by the champion Gilt Victor (Imp.) Cattle of all ages for sale.

in hand"ag milk," said Mr. Mahood, in hand "sg mitk," said ar. Manood, "is one of the most important things in dairying. The milk houses and utensils, therefore, should be sharply looked after, both by cheesemakers and butter makers."

## THE TAXATION OUESTION

make other improvements. I think the original assessment should stand

that of the impresent thould stand to that the larmer who is not quite as well off as his neighbor, will be on well off as his neighbor, will be on well off as his neighbor, will be on the standard taxes."

"I am having troubles of my own," said Mr. R. J. Waller, a neighbor of Mr. Mahood's, "with the sow thistle. I have tried all kinds of methods of eradicating them, and am now trying another way. I have about seven acres which I plowed before I commenced the regular spring work, and let it lie till I was nearly through. By that time the thistle had just begun to show. I then cultivated the land twice, with a few days interval between. After it had lain for two or three weeks, I again plow.

# HOLSTEINS

We must sell at least 25 cows and helf ers at once, to make room for the natural This is a chance of a lifetime there. This is a chance of a lifetime to the companies of a laso have a few young buils. Pontiac Hermes, Imp, son of Henderveld Deko, world's greatest sire, bead of herd. Come and see them.

H. E. GEORGE Putnam Stn., 1% miles—C.P.R. E-tf

SUNNADALE HOLSTEINS

SUNNADALE HOLSTEINS
Bull calves from 2 to 4 months old,
sired by Dutchland Sir Hengervill Mapie
Croft, he is imported from the elebrated
Fields herd, champion herd of the world,
champion bull of the world, die is the
only sire that has two daughters that
inade over 30 he butter in 7 days officially.
Prices reasonable. A. D. Foster, Bloomfield.

## HOLSTEINS

I have only three sons of Brightest Canary to offer for sale. Speak quick if you want one. Gordon H. Manhard, Leeds Co., Manhard, P.O., Ont.

## EVERGREEN STOCK FARM

Holstein cattle and Tamworth swine. Bull calves for sale, with g-od official re-cords behind them; also Tax-worth spring pigs. For particulars write Thos. David-son, Spring Valley P. O. Brockville Stn.

# NEIL SANGSTER

ORMSTOWN, QUE,

eders of Holstein-Fresian cattle high-class merit. Young stock of both sexes for sale. Write for prices

SPRING BROOK HOLSTEIN AND TAM-WORTH-6 young sows in farrow to Imp"Knowle King Davis." I boars ready for
Offerings in Holsteins: 1 buil, 12 mosbuil caives, and a few females. "My
Motto, "Quality."
A. C. HALLMAN, Bresins,
Latton.

(Imp.) Cattle of all ages for sale.

J. A. WATT

ELORA STA. G.T.R. & C.P. R. SALER P.O

ELORA STA. G.T.R. & C.P. R. SALER P.O

EAUEL LEMON. LTGMen, Ont. 6409

# A Few Clydesdales and Hackneys



A cvry choice lot of Imported Clydesdale Stallions and Fillies, sired by such noted getters as Baronson, Baron Mitchell, and Marcellas.

If Backneys I have to offer two big traysp handsone Stallers was the first of the stallers of the sta

ed, pretty deeply, cultivated it twice over again, and finished up by har-rowing both ways. I find that by so doing I am slowly getting the thistle to the top, and by the harrowing I get the soil from the plants. They thus have no nourishment and so dry out. I think this way answers just as out. I think this way answers just as well or better than smothering them, as advocated in some agricultural papers." Mr. Waller, in conclusion, said, "If there was an act passed (as in the States) to compel the farmer to cut the thistles before coming to a head, the pest would be soon got rid off, as pest it is, and it is getting worse than mustard was at one time."

## THE INSTITUTE MEETINGS

"I should like to know why Insti-"I should like to know why Insti-tute meetings are advertised to take place," said Mr. Alex. Thompson, (salesman of the Lakehurst cheese factory,) "if the speakers, who are paid by the Government, fail to show up when there are so many waiting to hear them. There were two meetto hear them. There were two meetings advertised for Hall's Bridge on Saturday, June 27, at 2 and 7 p.m., and at both times there were no considerable of the second of th

Denmark has nearly 200,000 farms and farm gardens of ten acres or less, and about 100,000 farms of between ten and fifteen acres. There are less than 1,000 farms in the entire kingdom of 500 acres or over, the kingdom of 500 acres or over, the aggregate of these last named being less than a million acres.

Aggregate of these last named being less than a million acres.

What Breeding Will Do Ed. The Dairyman and Farming World,—The following is a tabulated statement of what my Holstein cows have done for the first five months of this year. It shows what breeding will do. Quite a few of the cows are in the record of performance. Owing to moving last year, my cows this year have not come in at the proper times. We are weeding out the grades. I never breed any cows that do not give at least 40 lbs. with their first calf, that is when reaching full flow, We have 4t head in the herd, and young ones are now rapidly comling in. F. E. Came, Laval Co., Que.

Canadian Farm Mills Record, 1908

All Eyes are On this Invention

# Tolton's Fork and Sling Carriers

The Favorites of Them All Unequalled for Simplicity, Durability, and Efficieny.



Thousands now in use, giv-ing the best of satisfaction.

All kinds of Slings, Forks and Carriers, suitable for wood, rod or steel track. Send for descriptive circular, or see our local agent.

TOLTON BROS., LTD.

## Dates of Fairs for 1908

## Canadian Farm Milk Record, 1908

h	No.	Name of Cow	Age yrs.	Mths, in milk June	Jan.	Feb.	Mar.	April	May	Av ge perday May		
or the state of th	5 7 9 19 20 21 22 23 14 15 30 36 42 45 49 37 61	Artis Clothilde Chameook Queen Pansy Grade Holstein Durham Holstein Ayershire PeKol Burkes Orphan Holland Beauty Chamcook Clothilde Currie Margie Currie Margie Gurie Margie Currie Marg	12 14 5 7 6 7 6 9 10 10 4 11 6 6 6 4 4 5 3 6	1 23 11 7 7 7 7 7 7 7 7 7 7 7 7 7 1 2 1 1 1 2 2 2 5 5 6 6 d d d v	136 706 706 706 9181 454 1039 811; 1021 225 412 296 301 1315 837 2564 9425 23.4	6504 736 786 4024 8973 656 832 813 79 47 23 1377 709		2064 714 755 8524 4625 867 595 7693 7304 224 1370 398 15274 1722 1392 828		50,0 23,1 22,9 27,2 80ld 30,4 20,5 24,0 40,1 28,0 40,6 41,1 28,0 46,6 51,4 40,6 29,2 24,7 26,8	* * * * * * * * * * * * * * * * * * *	

Those marked \* are Home Bred. No. 37 with first calf gave 8975i bls. in 12 months in milk of the publication when writing to advertisers.

Those marked \* are Home Bred. No. 37 with first calf gave 8975i bls. in 12 months in milk of the last month of the publication when writing to advertisers.

Those marked \* are Home Bred. No. 37 with first calf gave 8975i bls. in 12 months in milk of the last month of the publication when writing to advertisers.

# Haying at Annandale

Geo, Rice, Oxford Co., Ont.

There are many ways of making hay. Perhaps no one is the One has got to be guided by best. One has got to be guided by his circumstances. There are also many ways of making poor hay, and some go to more work in making poor hay than others do in making good hay.

good hay.

Hay is put in the barn now much greener than was thought possible a few years ago. When put in right it comes out in better shave, more palathe and more digestible. The real thing in making good hay is to have it all dried enough, but none of it too dry. Some dry hay till the leaves turn up, while others bunch it almost as green as when cut. Good hay as green as when cut. Good hay can not be made from either of these practices. Therefore we want to get it evenly dried, and in order to do so, I believe in the free use of the

- We take off about 40 or 50 acres ter we think it is sufficiently dried, of hay a year. It is quite an it-m to that is before any leaves will break save all the labor we can liaving off, we start to draw, so much to take off we can also af the start as a hay loader, but do not ford to have a thull set of implements. Use the side delivery rake. The hay-

nay to take on would may te nearly as cheap to buy the hay as to buy the implements. With only a small quantity of hay te take off, I would not advise a man to buy all the haying implements that might be profitable had he a large; quantity to handle.

handle have a six foot mower and a two-horse hay tedder that will ted up two swarths of the mower. When the grass has become wifled somewhat the tedder is started the opposite way from which the mower ran. It will then ted the hay up better, standing it on its ends, so that the sua and air can get at all parts of it.

GET HAY EVENLY DRIED

If the grass is very heavy, or the weather slow for hay making, we often go over the field twice with the ten go over the field twice with the tedder, the second tedding shortly after the first time, to keep it well stirred up so that all parts will get evenly dried, but none too dry. After we think it is sufficiently dried, that is before any leaves will break

CATTLE

CHAS. GROAT, Brooklin, Ont., breeder of Clydesdales and Shorthorns, Gloster, Mead owflower families. 0.9-15

A. J. WATSON, Castlederg, Ont., breede Scotch Short Horns. 9 young bulls for sal

A. P. POLLARD, Shadeland Stock Farm, Canton, Ont., breeder of Shorthorns and Berkshire Swine. Young stock always for sale Rural phone.

in the field. If a rain comes up, I prefer to haw, the hay spread out; then we can start the tedder when it has partly dried off, and shake it up. This grets the water out of it and allows it to dry quite as much by the air, as by the sun, besides the side of the grass that has been exposed to the rain is not further bleached by the attion of the sun, for any length of time. There will be a slight intury to the color of the hay once it has been rained upon, but not much—not been rained upon, but not much—not enough to injure its feeding value.

The hay is put into our barn by the horse fork. As our barn is so large, and we use so much rope, it would be a difficult matter for a man to puli back the empty hay fork. As we have an engine in the barn (steam we have arrangements made so that the hay is drawn up by means of the engine. The big rope runs around one shaft, which is put in motion by pressing a lever. Then, af-ter tripping the lift another wheel is put in motion which by the aid of another large rope attached to the hind end of the car, pulls the car

hind end of the car, pure back.

We have put in over one hundred tons in one place, and all of it is put in pretty green. We have no trouble from it unduly heating. Care, however, must be taken not to have any moisture, such as dew or rain, on the hay, when it is put into the mow. The moisture or juice of the grass that is not dried out, is inside the stems and evenly distributed. This will cause no injury. If hay spoils in will cause no injury. If hay spoils in the mow it can usually be traced to dew or rain, or green bunches that have not been dried at all.

# **Breeders' Directory**

CARDS under this head inserted at the rate of \$6.00 a line a year. No carrie accepted under two lines, nor for less than six i

## SHEEP

NO. COUSINS & SONS, Harriston, Ont., C.P. R. and G.T.R. Oxford Down Sheep, Short horn.Cattle, Yorkshire Swine, Stock 68-8-18.

PETER ARKELL & SONS, Teeswater, P.O. and station, C.P.R., Mildmay, G.T.R. Oxford Down Sheep, show-ring and breeding stock, imported and home-bred. 0-8-15

JNO. AYER & SON, "Belewart Farm," manville, Ont., Breeders of Southd Stock for sale.

SAMUEL .CUDMORE,.. Forondale, Ont importer and breeder of Dorset sheep

# SWINE

P. O. COLLINS, Bowesville, Ont., breeder of Yorkshire Swine, Good young stock for sale. 9-2 is

CHAS. CURRIE, Morriston, Ont., breeder of choice Tamworth Swine. Stock for E-11-09 sale

DS. FEATHERSTONE & SON, Streets
ville, Ont. Large Yorkshire hogs for
E-11-09

sale LORNE FOSTER, "Glenhodson Stock Farm, Myrtle, G.T.R, and C.P.R., breeder of York shire Swine. Young stock for sale. 0-9-15

D. DOUGLAS & SONS, Mitchell, Ont., breed ers of Tamworth Swine. B. Turkeys, Toul ouse Geese, Pekin Ducks and S. C. W. Leg horns. Correspondence invited. 69-15

KELLY BROS., Hagersville, Ont., breeders of Improved Yorkshire Swine. Stock of all ages for sale. Write them. 0-12-15

A. A. COLWILL, Newcastle, Ont. (successor to Colwill Bros.). Shorthorns and Tamworth Swine. Choice young stock for sale. 0-7-1 SNOWDEN, Bowmanville, Ont., Box 39, breeder of Large English Berkshires, B. Rocks, Light Brahmas, W. and B. Leghorus Rouen Ducks, W. Holland Turkeys.

GEO. B. ARMSTRONG, Bowhill Stock Farm Teeswater, Ont., Imperted and Homebred Shorthorns for sale, 0.8-15 JOHN GARDHOUSE & SONS, Highfield, Ont.

**MISCELLANEOUS** 

J. T. GIBSON, Denfield, Ont., Station G.T.R. Imported and Home bred Scotch Shorthorns, Choice breeding stock in Lincoln Sheep. 0-8-15

H. BARTLETT, Kimbo P.O., Ont., Lincoln Co., Riverview Stock Farm. Shorthorns and Dorset Sheep. 0-9-1

JAS SOWMAN, "Elm Park," Guelph, Cut. and breeder of Aberdeen Angu-lydesdale Horses and Suffick Sheep-lence invited.

STONE HOUSE STOCK Stock of all ages for sale, including choice

M Importer and Breeder of Clydes dale horses and Ayrshire cattle Enquiries promptly answered and 0-0-23

SPRINGHURST FARM BERKSHIRES—
Pigs of all ages from Imported stock of the choicest breeding and individual accellence. Satisfaction guaranteed.

A gread continued to large from the control of the choicest breeding and individual accellence. Satisfaction guaranteed.

A gread continued to large from the front of the control of the contro

Advertise your farms in our For Sale column.

# Provide Pasture for Hogs

BERTRAM HOSKIN (Mt. Pleasant Farm), The Gully, Ont., Breeder of Holstein Cattle, Tam worth Swine. High-cl ss young stock for sale. Long distance phone. H. C. Frederick, Victoria Co., Ont. If one would meet with the great-If one would meet with the greatest success in hog raising, he must
supply plenty of good pasture. Grain
rations are tdo expensive to feed
alone, especially through the whole
period of a hog's growth. By providing a suitable pasture in a run
near by the hog pen, pork can be
produced at a much lower cost than
where the pigs are confined, and fed
wholly upon a grain ration throughout. Their growing days.

Their growing days. A. E. MEADOWS, Port Hope, Ont. Short horns, Matiidas, Isabellas, Gloster, Lady Ang families. Choice young stock for sale. 0.8-15 JAS. ROBERTSON & SONS, Willow Bank Farm, Milton. Ont., Breeders of Shorthorn Cattle, Dorset Sheep and Berkshire Swins. 0-10-15

out their growing days.

The pasture should have been provided before this, but it is not too late to make provision for a hog pasture that will be of service during the later months of summer and throughout the fall. By rights, preparations for a hog pasture should provide the provided by the provide ture for them to run on. In many instances, it may be possible to fence off a corner of some pasture field for the pigs, or if this is not possible, one can appproach the same results by feeding the hogs in their closed yard, green clover, oats or peas, of other such plants of a succulent na ture in the same way as one would feed cattle. This green feed has a healthy action upon the digestive organs of the pigs and seems to make the grain ration go much farther.

Rape of the Dwarf Essex variety, sown now at the rate of five or six pounds to the acre, will furnish a large amount of pasture ere fall if the season be favorable. It is not adarge amount of pasture ere fall it and Received from It. Move & Receive

A person having a small quantity of hay to take off would find it nearly in a moderate crop of hay, quite as the property of the treath of the control of the twarth the other a chance to start again, hay to take off would find it nearly in a moderate crop of hay, quite as the property of the control of the twarth, and the first of the control of the the other a chance to start again, much better results will be obtained. If you grow hogs, do not think that any labor, spent in providing green feed for them, will be wasted. Such feed will not only cause your pigs to enjoy better health, but will go a long way towards the economical production of pork. Feeders who buy the grain which they feed, can appreciate the full force of these statements. statements

## What Dairy Records Show

The great value of the cow testing associations to the advancement of dairying, is strongly shown up in a recent circular sent out by C. F. Whitley, who has charge of the dairy Whitley, who has charge of the dairy records. Forty cows in the Pine Grove, Ont., association, for the 50 days ending May 17th, had a total production of 28,502 lbs. of milk. During the same period 46 cows in the North Oxford, Ont., association, gave a total yield of 40,385 lbs. of gave a total yield of 40,385 lbs. of the Milkey of the cows, they would have given an additional 6,618 lbs. of milk, equivalent to an extra eight cheese, each weigh-

ing 80 lbs.

At Sheffield, Ont., during the same to days, 54 cows gave 34,541 lbs. of milk, or an average of only 619 lbs. per ow. Had they yielded in the same proportion as the North Oxford cows, they would have given 12,870 lbs. milk more than they did, or an additional sum of \$115 to their owners in the 3 days. Wh. additional sum of \$115 to their own-ers in the 30 days. What farmers can do in one district, those in another should do equally as well. Appar-ently it is up to us to make our cows

Dog taxes would do away with many dogs. If dog owners were compelled to pay \$i\$ a head as a ta., there would be few instances of two or three dogs being kep by one owner, who cannot keep himself.—F. Birdsall, Peterboro Co.

# FARMERS! LOOK!



no agent in your neighbour direct for prices.



Write To-Day

Elmira Agricultural Works Co., Ltd. ELMIRA, ONTARIO

# HORTICULTURE

## น้ออรอจจอออออออออออ Cover Crops in Orchards

Frank T. Shutt, M.A., Chemist, Dominion Experimental Farms.

The development of the fruit grow-ing industry in Canada during the past fifteen years, has been marked by, or I might say, has in a large measure, been the outcome of, cer-tain advances in the rational treat-We all recog ment of our orchards. We all reconize that much has been accomplised through the adoption of improved methods of picking, sorting and packing, by better storage, and trans-portation of the fruit; but, this ack-nowledged, we must realize that the recently introduced methods of soil treatment in the orchard, and the keeping in check of insect and fungous pests by spraying, have had very much to do in the production, both as to quantity and quality, of

our marketable fruit.

In these matters or soil management and spraying, fruit growers are much indebted to scientific researchand, speaking generally, we have been slow to put into practice methods indicated by the relts of investigations carried on in America—I use the term in its geo-graphical sense—agricultural institu-tions. Very much good has been done in the experimental stations of tions. Very much good has been done in the experimental stations of the United States, but we have also in Canada contributed our part towards that knowledge that we now possess regarding the rational growing of fuit. The Canadian agricultural institutions, both Federal and Powingial have recognized that and Provincial, have recognized that our conditions necessitated in many instances modifications of the gen-eral plan, that our problems called a special solution, and as a re-they have, I believe, done mos-

useful work towards putting fruit growing on a paying basis. It must not, however, be lost sight of that it is necessary each one for himself to do a certain amount of experimental work. The principles can be established from the received. experimental work. The principles can be established from the research es of the trained expert, who has all the necessary apparatus at hand to assist him, but in the application of these principles, if we would obtain the best results, there must be brought to bear the intelligent study by the individual, for there are many oils, and many climates, in our fruitgrowing districts. I am careful to emphasize this aspect before mentioning the data of our experiments, lest any should suppose we are laying down a hard and fast plan of procedure suitable to all alike.

It is my purpose to present in brief we have obtained on the we have obtained on the Dominion Experimental Farms, relative to the enrichment of the orchard soil and the control of its moisture, through

FARM HELP

and any kind of help supplied free of charge by the Labor Information Office for Italians (59 Lafacette Street. Help-phone 1198 Franklin, New York Oit, Pice-Labor Office. Send for circular and ap-plication blanks. PICTORIAL PRACTICAL CARDENING

Medadadadadadadadadada the use of cover crops. shall let the facts speak for them-lyes, indicating merely the deduc-ons that may be made therefrom, elves, indicassions that may the broad principles they

The term "cover crop," was, I believe first used by Protessor Bai-ley of Cornell University, in 182, who was then advocating the break-ing away from the old plan of kee-ing orchards in sod. His suggestion was to grow a crop in the late summer and autumn, which would afford a winter protection to the roots of the trees, and, at the same time, enrich the soil. Such a crop he designated a "cover crop." Prior to that time the greeners practice to signated a "cover crop." Prior to that time, the general practice, no doubt was to utilize the soil of the young orchard for some vegetable or farm crop; when the trees had ob-tained such a size that this was no longer possible, or profitable, the orchard was allowed to grow a sof, the grass being pastured or cut and owner. Occasionally the orchard reowner. Occasionally the orchard re-ceived a dressing of barn yard manure, but this, unfortunately, was the exception, rather than the rule, it being scarcely realized that our or-chard trees required to be fed, as other farm crops. There are, no other farm crops. There are, no doubt, to-day, many good orchards in sod, but their number is steadily lecreasing; we find the majority advanced orchardists abandoning the old method, and employing some modification of the cover crop system.

DISADVANTAGES OF SOD

There are several reasons against There are several reasons against a permanent sod in the orchard. One is that the grass is robbing the trees of that moisture and plant food accessary for their legitimate growth, and the production of fruit. I shall show you later from our experiment, that sod, and, especially an old esthat sod, and, especially an old es-tablished sod, very rapidly exhausts a soil of its moisture. The loss takes place partly by transpiration through the leaves of the grass, and partly through capillarity and surface evaporation. In consequence of this the trees suffer in seasons of insuffic-ient rainfall. In an orchard covered with sod, it is true that the tree roots are nearer the surface than in a culare nearer the surface than in a sur-tivated orchard, but, nevertheless, it is an unequal battle between them and the grass, with the result that the moisture is entrapped and used by the grass, and this, as a rule, just at that time when the trees are needing it most, viz., from May to July. As to the extraction of the ele-July. As to the extraction of the ele-ments of fertility from the soil by the grass, I have only to point out that a yearly yield of two tons of timothy hay per acre will remove in ten years about 600 lbs. of nitrogen, 400 lbs. of phosphoric acid, acid 900 lbs. of potash. There are, I know, los. of potash. There are, I know, soils so well supplied with moisture, and so rich in plant food, that the newer method of which we are speaking is not necessary—but such soils, we are assured, are by no means common

As you are well aware, by this system the land is part of the year under a crop, and part under culti-vation. We seek thereby to (1) en-rich the soil in humus and nitrogen; (2) to regulate or control the soil moisture; (3) to furnish protection to the trees roots during the ensuing winter; and, (4), to arrest the loss through the leaching of nitrates in the autumn. It is only with respect to this the first proper to this the first proper to this the first proper to the state of the sta BY WAITER P. WRIGHT

The object of this useful manual for all classes of horticulturists its to present all classes of horticulturists its to present on the autumn. It is only with respect to the property of the property o loss through the reaching or intrases in the autumn. It is only with respect to this the first named features that this paper deals. The data have been obtained in the orchard and laboratory during the past ten years, and in all this work I have had the advice and co-operation of my colleague, Mr. W. T. Macoun, Horticulturist of the Exhas

Nova Scotia Fruit Crops Walter E. Eaton, Kings Co., N. S.

In apples, Kings have set a very heavy crop; Gravensteins and Bald-wins, fair; Blenheims and Ribstons, light; all other varieties, fair. All appear quie free of black spot. Canker worms have done a lot of

damage, being worse than for many years. They have ruined many or-chards, not a leaf being left.

## July Canadian Horticulturist

July Canadian Horticulturist

Among the many fruit topics discussed in the July issue of The Cancussed in the July issue of The Caning: "Peach Culture, Thinning and
Marketing," "Growing Cherries,"
"Root Pruning for Fruit," "Fertilialing Orchards, "Canadian Pears,"
"Hungation," Marketing Currants,"
"Hangation," Marketing Currants,
"Hangation," Marketing Currants,
"Surprise of Canada (Apressions of opinion on "Our Fruit Trade
in South Africa," "Spraying in Cities, Towns and Villages," "Buying
Apple Barrels," and other topics. A
score of letters from correspondents
in all parts of Canada, give the fruit
news of the provinces. The fruit
crop prospects in all our fruit districts, are pointed out by reports
from men who Enow. An excellent
letter by Mr. D. Johnson, of Forest, on co-operation in Ontario,
should be read by all farmers who
should be read by all farmers who
fruit.
For those who grow, excetables. fruit.

uit.
For those who grow vegetables, here are articles on "Commercial Squashes," "Growing for the Fertilizers," "Growing "Sweet Potatoes," "S-Protection of Cabbase "Seening for the The ornamental ase of gardening receives attention in excellent articles on "Flow Shrubs and Their Care" for Flower Lov-"Lawn ing and Manage-ment," "Care of Azaleas." "The Worth of Gardening," and about fifty hints on work that can be done this

month.

Altogether the issue is a creditable one. It maintains the standard of excellence that The Canadian Horticulturist is noted for. Readers of the Dairyman and Farming World, when renewing their subscriptions, will be sent The Canadian Horticulturist for a year, the regular subscription price of which is 60 cents, if they will enclose 30 cents extra with their renewal subscription. renewal subscription

## Marketing Muskmelons

A bulletin has been issued by the Agricultural Experiment Station, of Illinois, on "Marketing the Musk-melon." The following is a summary

mary:

The leading type of muskmelon grown in Illinois for the general market is the Netted Gem, and the matter presented in the bulletin has special reference to the marketing of this

Illinois Gem melons intended shipment to the Chicago market should, as a rule, be picked as soon as the fruit will part readily from the stem, but not before.

Well graded melons will sell better

than ungraded stock.

The quality of a melon is the primary factor which determines its grade. The relation between the netting of a melon and its quality, makes it pos-sible to grade melons with extreme accuracy as to quality, on the basis

of netting.

The full benefit of grading cannot be secured unless methods of packing are employed which will enable the melons to present ap

meions to present an attractive ap-pearance upon the market.

Different styles of pack should be adopted for melons of different sizes.

A convenient packing shed facili-itates proper grading and packing.

To handle the melon crop properly, the warking force must be thorough-

organized, and each person trained or his particular duty.

The most satisfactory way of sup-plying melons to the smaller cities, is to ship directly to one high-class retailer in each city.

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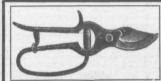
If you have had experience in growing strawberries, raspberries, black-berries, currants or gooseberries, kindly tell our readers about it. Send a letter for publication, and send it soon. A photograph of your plan-tation will also be most acceptable.



# The LOU DILLON TANDEM GARDEN CULTIVATOR It can be set to stir the soil any depth desired and to cultivate satride the row or between the rows, one-third quicker than any other garden cultivator. Easier to push than a lawn mower. No gardiner can afford to be without one. Write for descriptive catalogue and testimoniate.

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In return for one new subscription to The amadian Beairy-man and Farm-ing World at \$1.00 a year. These shears have flat steel spring.

8 1-2 INOH BOW HANDLES

CANADIAN DAIRYMAN & FARMING WORLD PETERBORO, ONTARIO

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

# POULTRY YARD

## Laggagagagagagagagaga Scrubs vs. Pure-Breds

Walter M. Welaht, Renfrey Co., Out. We who are interested in poultry We who are interested in poultry are and have been for some time interested in a reform in a branch of our industry that should interest all keepers of lowls. I refer to the custom of keeping the scrub or nondeveipt in the poultry yards everywhere. It is to be regretted that so many intelligent stock keepers who annual ly pay out much to secure mal stock, do not see the for stock, do not see the folly of harboring these excuses for they are not fowls, but mere makeshifts and a class that will not bring credit to a barn yard.
It is quite obvious that they are

deficent in many respects. It is not possible that they could be otherwise, years of careless handling must show itself in the end and mark its stock with physical deficiences. The years of careless mating must bring up the evil side of the birds. As a rule in the fall the poorest birds are left for next season's matings; the early ma-turing ones are killed for market beturing ones are killed for market because they are early. Those runts that are kept fall easy prey to the diseases of winter. Their slow development is still further retarded by being huddled in damp quarters over-crowded pens and often kept in most unsanitary conditions, for what stimulus is there in a scrub to encourage their keeper to give them better quarters? They won't lay because they can't; they are back to their old place which nature gave them, that is, they lay only in the spring and when they have laid their quota of eggs then, bird like, perforce they must hatch them, and brood they will, no matter how they are treated for they are beyond discouragement in this particular. Other causes are also at work in these flocks to tear them down. No attention is given to mating. All birds run together and they look after birds run together and they fook after themselves. No attempt is made at compensating the defects of the hens by a male showing strong points in his make up where his mates are lack-ing, there is no attention given to know whether the males are hatched from the eggs of the best layers or not, no care is given to have them uniform in either color, shape or size. Let them run their own show is the policy, and run it they do.

TOUGH CHICKEN AS A RESULT

The consequences are quite evident in the chicks, they are small little runts mostly feathers and bones, the best of them when dressed and pluck-ed are tough skinned rawboned lumps of chicken carcasses weighing about three pounds, tougher to eat than a surveyor's shee pack and about as tasty and as nourishing. What is there in them to encourage their stay on our premises? There is certainly much iscourage.

Supposing some one does take a notion to improve them, decides to se-

Black Watch

**Chewing Tobacco** 

The big black plug.

lect and breed to a type he will set up in his mind. What has he to work lect and preed to a type its up in his mind. What has he to work on? Advance with them is disheart-ening. He finds no two alike in shape, size or color he finds them desnape, size or color he innos them deficient in size and vigor, and many of them diseased, showing themselves to be but a poor foundation for a good stock. We will suppose he buys a good nabe bird at \$3 or more and raises his chicks, picking out the best pullets for the next year; next year he gets \$1.00 for his old bird and year he gets \$1.00 for his old bird and pays \$3.00 more for another and keeps this one two years. At the end of five years his males has cost him perhaps \$10.00 or more, his flock has built up in size and color, but hear him say "It's maddening you hear him say to see these blotches of stray color-ed feathers in a fine flock and worse to see the nice ones sh up the diseases of the old stock. START WITH PURE BRED STOCK

How much better to start in the a good foundation laid already. Others have already spent time in establishing breeds and strains of breeds insing breeds and strains of breeds that are good foundations upon which to build, so why waste time improving poor stock when the best is cheap and can be improved upon still further? Pure-breds also offer many good points in the utility field that cannot be found in scrubs and to people given to look for an advantage in business these points should appeal. They have first of all a similarity that makes them valuable in the several markets to which they and their product-the eggs-may be sent. Fruit growers can get better prices for fruit when it is all of a size, so with poul-try men, if they get their birds all of about a size they can get a better fig-ure. With scrubs it is impossible to ure. With scrubs it is impossible to get them even, hence the smallest rules the lot and it is generally the worst. The same applies to color, mongrels have all colors and tints of flesh and lags, whereas the pure breds are similar and when it comes to placing these birds on the comes to pacing these britis on the market a storekeeper can sell more and at a better price than he can of the scrubs. This also holds good along the line of shape. Birds of an even shape when dressed command more attention and through that a better The eggs as a rule from breds are similar in color and size and by selection can more easily be brought to a similarity. Good stock induces a person to keep

Good stock induces a person to keep them well and healthy which is eas-ily done in an average hen house that is kept dry and clean. Pure-breds respond most readily to care and out of respect for their beauty and utility they generally get good treatment. Why not this year get a start? It is easy and good stock costs no more to keep than poor. They give also another market which no scrub can enter on; that of the exhibition. It is another market which no scrub can enter on; that of the exhibition. It is a market open to all who have time

put on it and will pay its way.

Any one looking into the arguments put before the public from time to time cannot fail to see that a reform time cannot fail to see that a reform in the poultry branch of the farms is advisable from almost any stand-point. It offers more in pleasure, pride and cash and is worthy of sup-port from all bird fanciers.

## Embden Cheese

Embden Cheese
This variety of geese are pure white, with very soft and pliable feathers and with plenty of deeps, which brings a good price.
The Embdens are a large treed of geese, the adult gander weighing the grounds of the control of the contr pounds. Adult and young goose weigh respectively eighteen and sixteen pounds.

They lay very large eggs, a hen

The young goslings do not care for the mixtures that are fed the chicken but live principally upon grass and weeds. They are especially fond of plaintain and if you for the ally fond of plaintain and it you keep them penned up you can kill this troublesome weed by moving the goslings' pen every few days to a fresh spot where there is a patch of

For market purposes the Embdens are as good as any other variety, but are not as good layers as some other

## Rape for Young Chicks

As a succulent fresh and palatable form of green lood, one on which chicks and old fowls, also, for the matter of that, thrive and do well matter of that, thrive and do well on, rape answers the purpose most admirably. It is relished and de-voured eagerly by birds of all ages, and poultrymen, who are sometimes at a loss to know just what to proat a loss to know just what to provide in this line, should spend a few cents, for it is cheap enough, with a reliable seed house, and grow a small crop for their maturing birds. Many who have limited space for their flocks, have often been puzzled over this question of green food. For them we would success the foci. For them we would suggest the fol-lowing plan, which is a record of lowing plan, which is a record of ours, and which we think a very good

one.

The difficulty in providing chickens with green food, lies in the fact that they will eat while there is green in sight, unless, of course, they have unlimited range. The aim is to have unlimited range. The aim is to provide a constant supply. Take three boards, say 12 ins. wide, by 6 ft. long, 1 in. thick, using one for the bottom, the other two for the sides. Nail together securely, and fill in the ends with pieces 11 in. x 12 in., then fill up with good earth 12 in., then fill up with good earth to a depth of six inches, sow your seed, after which the top should be seed, after which the top should be covered with fine wire netting. Through this the birds will be able to just keep the tops of the juicy plants nibbled off, and if watered occasionally, if the summer be dry, the supply of green food will last all through the summer. The baby of course will not be

get at the rape in a box of this kind, but the rape can in that case be fed to them and of course will grow much quicker. The rape could be started in a hot bed and thus be available long before before it could be planted out oors. When different broods of of doors. When different broods of chicks are kept in separate runs (as they should be) one of these boxes placed half way between the two runs, would provide, not all they would eat, but enough for them to get along with, more would be desir-

For old birds, rape is a fine food. it can be sown broadcast and allowed to attain full height, before the fowls are permitted to feed in it, and then every other day is all it will stand ess of course the patch is very ensive. The small fancier is then extensive. extensive. The small fancier is then advised to grow box patches of rape, or larger patches if he can, the larger breeder is reminded of its value. Try, and see for yourself, as others have done.

Try moving a hatch of young chicks to a small moveable colony house, lo-cating it near a corn field. Run a casing it near a corn field. Kun a wire netting fence around it for a few days. This fence can then be re-moved and the chicks will go to moved and the chicks will go to the house to roost without further inducement. Splendid results are re-ported by the Agricultural College from this method of keeping chicks. A large hopper, kept full of grain does away with daily attendance, as the chicks can even get along without water in such a place.

The Editor of the Poultry page cordially invites its readers to discuss questions relating to poultry in its columns. Letters are solicited conquestions relating to poultry in its columns. Letters are solicited containing experiences such as egg records, new ideas in house and fix-tures, buildings, methods that have brought success in any branch of poultry raising, etc. Let us hear from you and we will try and make our poultry page the most helpful one in the journal. Questions answered quickly.

Advertise your stock in the Poul-try Exchange of The Canadian Dairy-man and Farming World.



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# The Canadian Dairyman AND Farming World

Published by The Rural Publishing Com-pany, Limited.



1. THE CANADIAN DAIRYMAN AND FARMING WORLD is published every wednesday. It is the official organ of the British Columbia, Manitoba, Bastern and Cuebec Dairymen's Associations, and of the Canadian Holstein, Ayrshits, and Jersey Cattle Breeder's Associations.

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THE CANADIAN DAIRYMAN AND FARMING WORL PETERBORO, ONT.

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

A WISE APPOINTMENT NEEDED Hon. Nelson Monteith, having decided definitely to retire as Minister of Agriculture for Ontario, Hon. Mr. Whitney must soon select a new colleague to fill that important position. The selection is one that will have to be made with great care. Hon. Mr. Whitney realizes this. During the recent Provincial elections, no criticism against the present government was made more frequently than that the agricultural interests had not been given the consideration, during the past four years, that their importance deserved.

Great pressure will be brought to can accomplish. bear on Hon. Mr. Whitney, by the friends of different members of the lantyne fought the battle alone for Ontario, to act as president of the Rood pure bred stallion to use a Legislature, to ensure their appoint many years. In 1867 he built the dairymen's association. A third son, grade, no matter how fine a look-

ment to fill the vacancy in the Cab-

Fortunately, Hon. Mr. Whitney has shown repeatedly his ability to withstand pressure of this sort both from within, as well as from without, his party. It is imperative that he shall take such a stand at this time. Services that have been rendered to the party, or the geographical location of constituencies, are questions that should not be taken into consideration in the selection of a Minister of Agriculture.

Dairying is the chief agricultural industry of Ontario. It is rapidly growing in importance. The new Minister of Agriculture should have a thorough knowledge of the dairy industry. In addition, he should be actively engaged in agricultural work, and have an open mind, and the executive ability, that will enable him to grasp, and deal effectively with the thousand and one questions pertaining to agriculture that confront the Minister of Agriculture. He must, also, be a man of progressive ideas, capable of initiating and carrying through the important measures relating to agriculture that must be dealt with by the government during the next few years.

No member of the Legislature is as well qualified to fill the position as Mr. J. R. Dargavel, the member for Leeds county. Mr. Dargavel owns and operates a 250-acre dairy farm, on which he keeps a large herd of pure-bred and grade Ayrshire cows. He is the president of the Eastern Ontario Dairyman's Association, and has been a director of that association for many years, during which period he has rendered much valuable service for the cause of agriculture. It is generally known that Mr. Dargavel was largely instrumental in drafting and having passed the sanitary legislation relating to the dairy industry that is proving so beneficial. Mr. Dargavel is better known throughout the province in agricultural circles than any other member of the legislature His appointment as Minister of Agriculture would be popular and would add a strong member to Hon. Mr. Whitney's Cabinet.

## A LONG AND SUCCESSFUL CAREER CLOSED

The late Hon. Thomas Ballantyne, who passed away in Stratford last week, was one of the most enterprising, unselfish and far-seeing public men Canada has known. The dairy industry, now our most important branch of agriculture, owes more to the late Mr. Bal'antyne than to any other one man. Our older dairymen are familiar with the manper in which he strove year after year, to interest Ontario farmers in dairying, at a time when few had a good word to say for the industry. Our younger dairymen may well hear the story re-told, if only in brief, that they may see what one determined, progressive, public-spirited man

In co-operative dairying Mr. Bal-

Black Creek cheese factory, which has long been recognized as a model. but for years his work was tedious, About 1870 he felt that he would have to forego the work. He had expended from his private funds all that he could afford. He appealed to Hon. John Carling, then Minister of Agriculture, and received \$800 per annum. This gave him new hope, and in 1877 he brought to Perth county the gold medal for the best cheese made on the American continent. During 1867 he attended the first dairy convention and was elected director, and was subsequently elected nine times president, being also first Honorary President. At one time he attended and addressed meetings in all parts of the country, and at his own expense, in order that he might create a greater interest in dairying.

It was Mr. Ballantyne who suggested the principle of employing instructors to improve the quality of dairy products, and upon one occasion when the association was unwilling to retain the services of Prof. Arnold, then instructor, he retained him at his own expense for a year. Largely through his efforts he has seen the cheese factories of Canada increase in number to several thousand, nearly all of which are managed by farmers themselves. He has seen also the system of dairy instruction extended until it covers not only Ontario, but several other provinces as and the industry has grown until Canada has become one of the greatest dairy countries in the

Co-operative dairying has been introduced in Scotland, and for this Mr. Ballantyne was directly responsible. In the south of Scotland he visited fairs, and interested the Scottish farmers in the movement.

Those who heard Mr. Ballantyne address the members of the Western Ontario Dairymen's Association at their convention in Stratford three years ago, will long remember the fire and energy the grand old man put into his words, and the inspiration he gave to those who were present to fight the good fight for improvement in agriculture.

Much could be said about the splendid work Mr. Ballantyne accomplished in the commercial, municipal and political world, and particularly of his work in the Ontario Legislature, of which he was a member for almost twenty years. During that period he was a foremost champion of the agricultural interests. After all, however, the late Mr. Ballantyne's chief pride was his splendid family of seven sons and one daughter. All of his sons have made honored and even distinguished names for themselves in their respective lines of effort. Two of them, Robert Ballantyne, of Montreal, now senior Canadian partner of Lovell & Christmas, one of Canada's greatest exporters of butter and cheese, and Thomas Ballantyne, Jr., of Stratford, horse breeding. to their father's delight, have on different occasions, been chosen by

M. W. W. Ballantyne, of Stratford, is well known, by name at least, to our readers, as a successful farmer and breeder of Ayrshire cattle.

Upon such a life of unselfish effort, the fellow Canadians of the late Hon. Mr. Ballantyne can repeat only the scriptural verdict, "Well done, thou good and faithful servant: enter thou into the joy of thy Lord."

## HONOR BEFORE SELF

We recently spent a few hours at the home of a farmer who does not dress as stylishly as many farmers do, or as is customary among city people, but who has a heart that beats true, and a sense of honor that would put many men of greater pretensions to shame. Our friend some ten years ago, invested all his earnings in real estate. At that time there was a boom. Suddenly the boom collapsed. He found himself not only penniless, but in debt some thousands of dollars. Unfortunately the firms who held his notes failed, as a result, in part, at least, of the same boom. Had it not been for this, he might have been able to have paid the interest, and later saved considerable of his property. As it was, he lost everything.

He was getting up in years. Many men would have gone into liquidation and left their creditors to realize what they could Instead of doing this, our friend set to work resolutely to pay off his indebtedness. His only method of doing this, was by means of his dairy far.a. He keeps a herd of Jersey cattle. For ten years he has been paying off his indebtedness. Some years he has paid off as much as two hundred dollars a month.

During this period he has not been able to put on much style. He has not wanted to. It is possible that some people, who have not known his circumstances, judging by his appearance, may have concluded that he was an unsuccessful farmer, and pitied him. How mistaken they would have been! This man has made a success of his life. He has put honor ahead of riches, and saved his good name. Now, he has his indebtedness about all paid off, he is not ashamed to look any man in the face. All honor to him.

## LOW STALLION FEES ARE COSTLY

Nothing has done more damage to the horse breeding industry than the fact that stallions of low breeding, a large percentage of which are unsound, are offered for service at low fees. In many cases the low service fee is almost their only recommendation. Those of our farmers who

cannot see beyond the cost of the service fee find this low fee wonderfully attractive. It serves as a snare to lure them from the paths that years of experience have shown to be the only safe ones to follow in

There are certain facts that bear almost endless repetition and one of their brother dairymen, in Western these is that it is folly to pass by a ing animal he may be, simply because the service fee in one case is a few dollars lower man in the other. The cost of raising a high grade, as compared with a scrub colt is the same. When the time comes to sell both, however, the colt from the pure bred stallion, almost invariably commands a price in the market that repays the extra cost of the service fee many times over. The reverse is true of the scrub colt. He is seldom in demand for anything more than a cheap worker and the price he realizes, as a rule, does not much more than defray the service fee and the cost of raising. The sales that take place every week on our leading horse markets prove over and over again the truth of there statements. They demonstrate conclusively that a cheap stallion is dear at any price. It is time that something more was done than has been hitherto to point out to our farmers the need for the adoption of better methods of breeding.

Doubtful About Rural Delivery

Ed., Dairyman and Farming World: -Free rural delivery would undoubt-edly take well with the farmer, if he were not taxed too heavily for the service. It would be a very fine thing for the farmers generally if such a service. It would be a very fine thing for the farmers generally if such a service could be obtained, and iff those living a long disance from a post office could agree, as to the way and time the mail was to be distributed, with those people living at a shorter distance from the post office.

It seems to me, however, the ex-pense would be too great to deliver mail to those scattered farmers in mail to those scattered farmers in the back country. A majority of the people though, I believe would be in favor of rural delivery, as they would like a daily mail. Others again, of less business standing, would be quite careless and disinterested about the whole matter.—Robert Leitch, Jr., Renfrew Co., Ont.

## We Must Agitate It

Ed., Dairyman and Farming World:

—The farmers of this country should have rural free delivery, and we must keep agitating it till we get it. The grant of the state of the st Ed., Dairyman and Farming World:

well as reading the pros and cons of the farmers on free rural mail deliv-ery. If one should ask, "Am I in favor of it?" my answer would be, "Well, rather." I think free rural delivery is just what the farmers "Well, rather." I think free rural delivery is just what the farmers need, and is what they can justly demand. It seems to me that the Government would be justified in giving us free rural mail delivery, and certainly are not justified in withholding

it from us.

In the first place, there is no one thing that is of greater value to the farming community in general, than farming community in general, than 'mail,' and a great deal of the value of our mail lies in the promptness with which it is received. Papers, such as The Canadian Dairyman and Farming World, with timely articles, as well as business and social letters, may mean many dollars to a farmer when they are received on time. When may mean many dollars to a farmer when they are received on time. When received late they might be of considerable less value; and, on the average, I'll venture to say the majority of farmers do not receive their will more than once or twice a week. The country substitute of the country substitute of the country with the country in reserval is root times, the country in reserval is root.

times, the country in general is pros-perous, and vice versa. Were the farperous, and vice versa. Were the far-mers as quick to demand their rights as are the people in some other trades and professions, we might have had free rural mail delivery ere his. The time is certainly ripe for it now.—M E. Maybee, Prince Edward Co., Ont.

## Opportunity for All

Opportunity for All
"I am very proud of my pig. He
is growing fine, and I am not sorry
hat I sold the papers for it. I wish
your paper success."—Mr. J. J.
McDonald, Glengarry, Ont. This
pig was won by Mr. McDonald as a
prize for obtaining only seven new
subscriptions for The Canadian
Dairyman and Farming World, at \$1
a. year.

McDonald is not the only one Mr. McDonald is not the only one who has received a pure bred pig as a premium for obtaining new subscribers. Many others of our readers have won such prizes, and all readers have won such prizes, and all have been perfectly satisfied with them. If you would prefer other pure-bred stock to pigs, you can earn such by making use of your spare time, and speaking a good word for The Canadian Dairyman and Farming World when talking to your friends and neighbors. Take to the property of the stock of the back cover of the stock on the back cover of the stock and see what you think of the stock of the

HAVE YOU A SAVINGS BANK ACCOUNT ? Have you a savings bank account? If not, why not? Your every day necessities may absorb your present income. Why not consider some of income. Why not consider some of the offers which we make in return for obtaining new subscribers. We point with pride to some of the ex-pressions of satisfaction and praise which we receive every day for our

paper.

Mr. John A. Chisholm of Antigonish Co., N. S. wrote recently:

"Kindly send me immediately sample copies and full particulars concerning the subscriptions to The Canadian Dairyman and Farming World. I am already a subscriber, and must say that I like the paper very much, and I wish to compete for the cash prizes."



# **DeLaval** Cream

Separators

Are exclusively used in Creameries and Model Dairies throughout the length and breadth of two Continents. Sometimes the original purchase bore the name of one or other of inferior makes extensively advertised, but always practical folk, dairying for profit, replaced this with the De Laval-the universally accepted standard of Separator Values.

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nuch better than The Farming World, published in 1907. If you will please send me some sample copies, I will try and get some new subscriptions."—Mr. P. Stewart Ree-sor, York Co., Ont.

subscriptions.
sor, York Co., Ont.
"I have been a reader of your
paper for some time and am well
pleased with it. I am going to get
a few subscribers. Please send me
some sample copies, as I want to
keep my copies all together." — Mr.
Walter Bromby, Brome Co., Que.

## What Cow Testing is Doing

Eden Bank, B. C., association, for May, had the record for 241 cows 

The best cow in that herd

lb. fat. The best cow in that herd gave 1465 lbs. milk, testing 4.0, and the lowest yield in the same herd was 400 lbs., testing 3.2. A contrast to the above is at St. Antoine, Que, for the same period, where 60 cows averaged only 654 lbs. milk, 3.3 test, 21.9 lb. fat. The 60 cows gave a total yield of 99,244 lbs. milk, 317 lbs. fat. If they had lbs. milk, 317 lbs. fat. If they had lbs. milk, 317 lbs. fat. If they had cover seven house of milk, and over seven housed of milk, and over seven hundred pounds of butter fat during the one month!

Are there not some places where

are there not some places where there are still some poor cows left? The poor cows are quickest detected by systematic weighing and testing.

C. F. W.

of the big butter States, a year or two ago, butter-makers were vieing with each other to such an extent as to who could obtain the biggest overrun and thus increase the profits of the manufacturer, that the quality deteriorated very much. Since then of the manufacturer, that the quality deteriorated very much. Since then the fad has lost its glamour some-what and makers are getting down to a more common sense basis on this question. The overrun, however,

this question. The overrun, however, is an important part of butter-making, it has considerable to do with the quality as well as the quantity of butter to made from cream.

In Canada it is illegal for butter to contain more than 10 per cent of moisture. This standard is fixed to conform with the law in England where our surplus butter is shipped. This standard is slightly higher than the amount recommended by the hard. authorities for making the finest quality of butter. From 14 to 15 per cent. will give a very fine quality and better than a lower percentage of moisture. If the butter is well made and good in other ways a 16 per cent. moisture content should not injure it very much.

BASED ON BUTTER FAT

The relation of the moisture content to the overrun is sometimes bothersome. Butter with 16 per cent. moisture would have an overrun of 25 per cent. and not 20 per cent. as some imagine. To the moisture con-tent must be added 4 per cent. for salt and curd. 100 pounds of such butter would thus contain 80 pounds of butter fat, 16 pounds of water and 4 pounds of curd and other sub-4 pounds of curd and other sub-stances, approximately. The per-centage of overrun is based on the butter fat and not on the total amount of butter. To produce so lbs. of butter fat, and 20 lbs. of other matter would increase this butter fat by one-quarter of its original weight or 25 per cent. This is the

weight or 25 per cent. This is the largest percentage the law will allow. The moisture in butter varies a great deal. In the farm dairy it is very hard to control. The skilled butter-maker, handling a uniform quality of cream and churning it alquality of cream and churning it al-ways at the same temperature, is able to control the moisture content of his product within certain limits. In dairy butter the amount of mois-ture may vary as much as four or five per cent. and yet by its outward appearance one would not be able to tell white the content of which had the which had the teast moisture.

## OVERRUN INCREASES PROFITS

Where the butter manufacturer pays a fixed price to his patrons for cream or butter fat, his profits are greatly increased by incorporating moisture in the butter. In Canada, creameries are run on the cooperative plan and are run on the cooperative plan and the proceeds, after the expenses of making, etc., are deducted, are di-vided among the patrons. The mois-ture content, therefore, directly affects the cream producer and it is the makers duty to incorporate as much moisture in the butter as is consist-ent with the finest quality. Too moisture in the butter as is consistent with the finest quality. Too little moisture is almost as injurious as too much moisture. From 14 to 15 per cent. will be about right. Do not try to increase moisture at the expense of quality. The increased which to live.

Creamery Department of the butter Air States, a year or two ago, butter-makers that the shold on Canadian butter-makers butter that the shold on Canadian butter-makers butter the state of the state of the shold on Canadian butter-makers butter the shold on Canadian butter-makers butter the shold on Canadian butter-makers butter the shold on Canadian butter-makers that the shold on Canadian butter-makers butter to a shold the shold on Canadian butter-makers butter-makers butter the shold on Canadian but consistent with choice quality and the

## Prof. McKay Leaves Ames

Many Canadians will be interested in learning that Prof. G. L. Mc-Kay of the Iowa Agricultural Col-lege, Ames, Iowa, has severed his connection with that institution. He accepted a position with the National National Creamery Butter Manufac-turing Association, a new organiza-tion recently formed to control a large number of creameries in the United States. His official position is that of secretary, but his work will be that of developing the dairy industry, and instructing makers to produce a better quality of butter in the creameries controlled by the

association.

Prof. McKay is a Canadian, who has made a name for himself in the United States. He is recognized to-day as one of the best authorities on butter and butter making on the continent. He learned cheese makcontinent. He learned cheese making many years ago with Dr. J. W. Robertson, now at the head of the Macdonald College, Ste. Anne de Bellevue, Que. After managing an Ontario cheese factory for several years, he went to Iowa, and took upcreamery work. His success in this branch sbon attracted attention, and he was selected as Professor, which he occupied with distinction for many years. He will have ample opportunity in his new position to put his practical and theoretical knowledge to the test.

# St. Hyacinthe Dairy School

A summary of the work accomplished in the St. Hyacinthe Dairy School during the past winter is as former December over a super the control of the control of

January course, 1908: 10 inspectors permits: 22 makers diplomas; 26 ex-pert milk testers certificates; 34 cer-tificates of assiduity; four having tak-en part of the course.

en part of the course. 1908: February and March course, 1908: 16 makers diplomas; 23 expert milk testers certificates; 42 certificates of assiduity; 33 students having taken part of a course, making a total of 226.—J. A. Plamondon. "

In summing up the advantages of the co-operative creamery, E. K. Slater, Dairy and Food Commission-er of Minnesota, where there are 700 of these institutions, says: 1. It insures every cent of profit to the farmers.

2. It encourages better quality in

the output.
3. It encourages better methods on the he farm.

4. It encourages the building up of

home industries.

5. It teaches the farmers that we are business men.

6. It makes a better locality in

# A Successful Manufacturing Career

the



Improved 1908 U.S. Cream S. before

popular in the days rere instituted, established in popular in the days were instituted, established in the minds of dairymen the reliability of their goods. For inability of their goods. For larity of the United States of their goods of their goods. For larity of the United States of their goods of their goods of their sparators has been echoed around the world by the thousands of satisfied users. It will readily be seen by examining one of their Separators that this particular make of their goods of their sparators and their goods of their sparators and their sparators and their sparators and their sparators are their sparators and their sparators and their sparators are sparators and their sparators and their sparators are sparators and their sparators and their sparators are sparators and th make up the large and small, is subjected to the most severe tests before leaving the factory, thereby enMANY companies, manufacturing dairy implements of different styles and descriptions, have spring up and vanished in the past two score years, but one in particular by maintaining the principles on which they started, of giving everyone a "quanta" one in particular by maintaining the principles on which they started, of giving everyone a "square quality of their good, has grown from a small concern doing business in a single room, to the foremest factory of its kind in the country. The Vermont Parm Machine Company, of Hellows Pailse Vt., incorporated in with the property of t as is also their rester.
Tester.
The celebrated Cooley Creamer, s
centrifugal separating methods



Main Factory and Office.

suring every machine to be of perfect construc-

and the property of the control of t



One of the several Lathe Departments in the big Machine Shop.

matic, labor-saving machines, making many of the more in-tricate parts to less than the thousandth part of an inch. This great accuracy of the running parts makes of the running parts makes the Separator just what it has always been, the easiest has always been, the easiest running machine on the market. And this is a very essential point to be considered, when one has to separate twice a day, and, perhaps, it takes twenty to thirty minutes each time. If it required the strength necessary for the turning of most separators, this would most separators, this would result to the separator has always been separator has always been



Automatic Grinding and Polishing Machines that finish the



Longest line of B. & S. Automatic Gear Cutting Machines in United States (Continued on page 19.)

olishing Machines that finish the streme securescy.

very popular, but the im-proved 1506 machine is truly the aeme of perfecton in separator construction. It has to be seen to be fully appreciated. That almost perfect bowl which, in fifty consecutive runs so moreperfect bowl which, in fity consecutive runs, so unser-cifully beat everything else under the name of eream under the name of eream American Exposition, has been even further improve ed by its weight being ma-terially reduced, making it ereally reduced, making it ler, and has, in fact, been simplified to a minimum. The milk supply can sup-port which previously was of the side of the frame. nig

FOR

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FOR doi: eve dre ille.

WN CRI shi; an ish lare Can

CLEA this eal teri son to es. Dai

During June there has been more warm weather than usual for this to but, and patrons have found it at the compact of the compa greatest care needs to be taken. The dairyman, who has neglected to put in ice, will find it difficult to cool in ice, will find it difficult to cool his milk to the proper temperature. A good spring or well will help things out some. In any case the patron must give some attention to cooling the milk as soon as it is acrated. In fact the acrating and cooling can go on at the same time...

A few years ago aeration was all that was considered necessary in carfor milk for cheese making, exing for milk for cheese making, ex-cepting during very hot weather. But that thing has been exploded, and the best authorities recommend cooling the milk to at least 60 degrees, and keeping it at that temperature as nearly as possible. It will be found nearly as possible. It will be found difficult to do this unless ice is available, or cold spring water. But most farmers have either the one or the mers have either the one or the her. If they have not spring ater, they have well water that can i utilized for the purperse. Where ere is running water the nest way handle the milk is to place the his in a box, into which a contin-lus stream of water is running, here the well is to be depended I, more labor is needed, as the water to cool the milk will have to ed. But by renewing the frequently around the cans, a temperature can be maintain-

There are those who claim that the aeration of milk is unnecessary, and, in fact, harmful. But this is doubtful. Aeration has been brought into disrepute by the careless manner in which it has been done. The aeration of milk should only take place where the atmosphere is pure and free from bad odors. A barnyard or a stable is no place in which to acrate milk. The less the yard or a stable is no place in which to aerate milk. The less the milk is exposed under such conditions, the better. The aerating process should not be prolonged. A the minutes dipping or stirring when the milk is placed in the cans to cool, is all that is necessary. As soon as the milk reaches the temperature of the surrounding atmosphere, less stirring it receives

is never safe to say anything about the care of milk without em-phazing the need of cleanliness. If were not done night rise up and say that cleanli-less was not considered necessary by the writer. But it is necessary at

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

OR SALE, \$1,858.—Brick cheese factory, doing good business; ten cheese daily; everything up-to-date; \$1.10 per hundred for making.—J. L. Thomson, Hawkes.—E-7-22

WNERS OF CHEESE FACTORIES AND CREAMERIES desiring to make direct an opportunity of meeting a large Brit-lah importer in July, Further particular lare may be obtained by writing Box F, Canadian Dairyman and Farming World,

Cheese Department

Whater are invited to send contributions to similaring to cheesenshing and to suggest subject to the company. The same of the company had broken are invited to send contributions to similaring to cheesenshing and to suggest subject to the company. The same of the company to-day were not considered of so much importance, got into a way of doing their work, and it is difficult to effect a coange. A beginner is better material to the strength on the metal of the strength of the strength of the that the cheeseemaker of to-day is a deeperate a conserved with is a degenerate, as compared with ago, because he cannot make chout of the same kind of milk. can, however, and for that matter can make better cheese out of bad milk than his predecessor could. But his best efforts in this direction will not enable him to make a cheese out of bad milk that will command the top price on the market. Condiisons have changed. The market buyer will often ask for more cheese demands a better quality than it did to be shipped than is covered by the even ten years ago, and the factory factory's make for the month; cheese or maker who cannot supply it must of the following month is put in to take second place. To get this better make up the quantity. This frequality the maker must have better milk. Hence the supreme et ship, but the onus is on the buyer, for that is being made by instruct who owns the cheese for the season, secure better milk. It is not a need, this is not carried on to a large exception of the season tors, makers and everyone else to secure better milk. It is not a need-less task they are imposing on the patrons when they ask them to take the best possible care of the milk they supply their factory with. It is a work of necessity that must be done if Canada's reputation for high-class cheese is to be maintained.—J. W. W.

## Dairying in New Zealand

During the past few weeks New Zealand has been receiving a little attention in Canadian dairying cir attention in Canadian dairying cir-cles, chiefly in regard to its possi-bilities as a cheese producing coun-try. Mr. John Tait of that country, who is at present in Canada, has who is at present in Canada, mas some information on the subject that is of interest. When asked by the Canadian Dairyman and Farming World, if New Zealand was likely to become a strong competitor of Can-ada, in the cheese trade, he stated that Canadians need have little to fear from that quarter. The country is small, the population is not large and her resources limited. Though she were to engage largely in cheese she were to engage targely in cheese production her output would have comparatively little effect on the market. Nevertheless, the cheese trade of New Zealand has grown con-

siderably the past year or two, and is likely to grow still more.

At the beginning of the cheese season of 1907-08, a great many creamson or 1907-09, a great many cream-eries put in equipments at consider-able expense, and changed from butter-making to cheese-making, ow-ing to the better cash returns. These concerns did not-look far enough ahead, and found it difficult to get competent cheese-makers to manage their factories. Consequently the their factories. Consequently the cheese turned out an outline to best quality. But, as a lot of money has been expended in changing over they are likely to stay with the game for a while. If the comparative can be cheese factory continue as the cheese factory continue as the cheese factory continue as they have been, more dairymen are likely to been, more darymen are likely to take up cheese-making. As the mak-ers become more proficient in their work, the quality will improve. A dairy school will shortly be establish-

meet and decids which one they will accept for the season's make. The price is governed by the grade, so much for first grade, so much for second, and so on. For butter, the difference in the price between first and second grades is about 2 cents and second grades is about 2 cents offer a little extra for No. 2 to land the business. The bids for No. 1, grade are usually pretty uniform. offer a little cattle the business. The bids for No. I grade are usually pretty uniform. The buyer's price is usually f.o.b. at the nearest grading station.

There are seven shipping ports which grading lished. There grading stations are estab There are cold storage ware lished. There are cold storage ware-houses at these points, where the product is stored and the grading done. The factories send in their products subject to the order of the buyer. It often happens that the this is not carried on to a large ex-tent. All factories are registered and have a number, and often their own brand, which is also registered. The grading system has been very effec-tive in improving the quality. Mr tive in improving the quality. Mr. Tait says that the quality has been more improved by grading than by instruction at the factories. During 1906 only 2 per cent of the butter graded second quality, which is a very good record. The butter standard calls for a dry butter. Often otherwise choice butter will be put in second grade because of having a little more moisture. This standard is likely to be modified some a little more moisture. This stan-dard is likely to be modified some-what in the near future, as the trade is demanding a butter with more moisture in it.

## DAIRY FARM INSPECTION

New Zealand is entering upon an elaborate system of dairy farm in-spection, for which an appropriation of \$60,000 a year has been made. The inspectors will look after the sanitary inspectors will look after the sanitary condition of dairy larms and the health of the cattle. There has been a system of factory instruction for some years, but as it has not been large enough, the results from it have not been as effective as they otherwise might have been. Instructors have been sent for the most part to factories where the grading sho that their services were needed

Some of the laws in New Zealand affecting dairying, would appear very drastic in Canada. There is a 10hour day act in force in connection with factory help. In a cheese factory, if it requires more than hours to do the day's work, helper gets extra pay. There is holds to do the day's work, helper gets extra pay. There is a tendency, therefore, to rush things through, without regard to quality. Then no company can accept milk from anyone but its shareholders. from anyone but its abareholders. To supply milt to a factory, a farmer needs to have some above pure to company. This tends to keep pure to company. This tends to keep pure tied up to their own factories and the maker has better control over the milk suply. Mr. Tait gives a chief law works. the milk suplpy. Mr. Tait gives a good instance of how this law works Canadian Dairyman and Farming World.

LEAN MILE—By S. D. Bleber, M.D. In the black of the author sets for the rectal black of the author sets forth practical methods for the stellar of the scale of the sets of the contamination of milk from the stable to the contamination of milk from the stable to the consumer. Hisutrated, 57 inchest of the consumer, the stable of the consumer, the stable of the consumer. Hisutrated, 57 inchest of the consumer, the stable of the consumer, the stable of the consumer. Historical stable of the consumer, the stable of the consumer, the stable of the consumer. Historical stable of the consumer, the stable of the consumer, the stable of the consumer. The stable of the consumer, the stable of the consumer, the stable of the consumer. The stable of the consumer of the stable o

as in Australia. As high as \$250 an acre has been paid for good dairy farms without a building of any kind on them. There is no winter feeding. It is only because of this fact that the business can be made to pay. But the buyer usually makes good, and has been making money of late years.

## Restricting Bacterial Development in Milk

If the cows are kept moroughly clean, if the stable is well lighted, well ventilated, and kept in a sanitary condition, if the milkers wear clean clothes, have clean hands and milk into clean pails, it is not difficult to obtain fresh milk which contains, relatively, only a few germs. At ordin-ary temperatures, however, these in-crease with wonderful rapidity. Milk may contain from 2,000 to 20,000 may contain from 2,000 to 20,000 times more germs at the end of 24 hours than it did at the beginning. In order to prevent this rapid growth it is advised that milk producers and dealers resort to cooling milk to a low temperature. In handling milk commercially for direct consumption, an effort is made to cool it as soon as practicable, and to retain it at a low temperature until it reaches the con-

However, there is danger in keep riowever, there is danger in keeping milk too long, even though it be
held at a low temperature. Milk
more than a week or ten days
old should be viewed with suspicion,
even though apparently in good condition. Milk is not necessarily even though apparently in good condition. Milk is not necessarily wholesome because it is sweet, especially if it has been kept at a low temperature. At the temperature of an ice chest, milk may remain sweet for a long time, and yet contain enormous number of bacteria, among which are species more likely to be unwholesome than those that develop at 68 degrees F. From this standpoint the suggestion arises that inunwhotesome than those that develop at 68 degrees F. From this stand-point the suggestion arises that instances of ice cream poisoning are perhaps due to the preservation of cream for several days at a low temperature, such treatment keeping the milk sweet, but favoring the development of species of bacteria that are, at higher temperatures, choked by the lactic organisms.—The Professor at the Milking Stool.

Give the whey butter business a wide berth until more is known about

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THE best help is not to bear the trouble of others for them, but to inspire them with courage and energy to bear their burdens for themselves and meet the difficulties of life bravely. - Lubbock.



# Backward, O Time!

den. In his mental pictures it had not been wide, but for this con-tracted, almost lane-like thorough-fare, he was unprepared. The red, brick houses were lower, too, and brick houses were lower, too, and were more tiny than he had fancied, though he had never imagined them were. though he had never imagined them very grand or imposing. But, low and diminutive as they were, they seemed to crowd, one row on the other, across this narrow ribbon of a highway, with its disproportionately broad track. In vain he looked for the maple trees, protected by slatted green-painted boxes, which were among the memories of his early childhood. The street was outle have childhood. The street was quite bare of trees. In their places were grim iron trolley poles, upholding stretch-ed wires, which in turn supported the ed wires, which in turn supported the long, live, burnished copper wire supplying the electric power to the great juggernaut-like cars which at intervals thundered past, with hoarse metallic rumble of wheels, sharp, nerveracking rattle of windows, and discordant clang of gong.

Midway of the block he halled, and stood close to the curb, his ware fived.

Midway of the block he halted, and stood close to the curb, his gaze fixed on the house opposite, which his searching eyes had picked out from the corner as the thard beyond the alley. There was liftle otherwise to distinguish this dwelling from its neighbors. It was of dingy brick, neighbors. It was of dingy brick, and the bright of the distinguish this dwelling from its neighbors, and the bright of the distinct of the distin

ble steps which afforded approach to its entrance, it gave evidence of an architectural vogue once popular, no doubt, but long ago discarded. If there was something of disap-pointment in Carden's expression as he made optical survey of the modest, old-time structure, there was also something of veneration. He noted with a pang that it was not altowith a pang that it was not alto-gether as he had remembered it, yet it undoubtedly was, structurally, if not in all its embellishments, the house in which he had been born. The old, white-painted door had giv-en place to one of dark hardwood, in en place to one of dark hardwood, in the upper panel of which was a pane of bevelled plate glass, guarded by a grill of wrought iron. In his infancy the windows of the ground floor had been protected by white painted board shutters, and the upper windows of outside green blinds; but now all these had disappeared. The ground floor showed inside shutters of walnut, and he presumed there were the same on the other floors, though only dainty white curtains were visible.

HE narrowness of the street was an unpleasant surprise to Carden, and he resented it. He was an unpleasant surprise to Carden thankful, nevertheless, that they had not been wire, but for this contracted, almost lane-like thoroughare, he was unprepared. The red and imitated the mortar lines with geometrically accurate rulings of white paint. The bricks, at least, because the work of the paint of the same honest bricks, weather were made avoid the paint.

He must have been standing there longer than he knew, watching the houses across the way, for suddenly he observed that he had become an ne observed that he had become an reverie.

"I must have been much like the who, encouraged probably by his lad, yonder, when I last came through had drawn closer and closer, watch-l dwelt lovingly on the narrow portal;

soft and his manner most kindly. "I'm ten, going on eleven, swered the child.

The man extended his arm a trifle, the dime further outheld.

"Here is a cent for each of your years" he insisted; "and the little girls shall have a cent for each year, too."

too."
But still the boy seemed reluctant,
"I'm not allowed," be explained.
Carden laughed, lightly, good-humoredly, and ceased insisting. To the elder girl he said:
"And you, miss? How hold may you be?"
She cast down her small, bead-like

eyes, which were set too close to-gether.
"I'm 'most ten," she answered, and took the proffered dime, before the giver had time to make his proffer-

"And baby?" asked Carden, bend-ing down to the pretty child with golden curls.

The little one stuck her thumb into

The little one stuck her thumb into her mouth, and said nothing, "She's five," volunteered the other girl. "She's my little sister." Carden pressed a nickel into the little one's chubby fingers. "There, now," he said, graciously, "run along, all of you. I'm sorry, my little man," he added, "that you aren't allowed. But I congratulate you on your obedience." I congratulate you on your obedience."

And as the trio, with heads to-gether, went slowly off up the street, turning at intervals to look back at their generous chance acquaintance, Carden resumed his contemplation of the little old brick house across the way, and continued his interrupted reverie.

snowy marble which served as doc steps, and with uncertain finger steps, and with uncertain fingers, grasped the nickeled bell-pull. It was as though he stood at the entrance to a shrine, and across his though flashed remembrance of the Moham medan custom of removing shoes bemedan custom of removing snoes of fore entering a mosque. He smiled at the incongruity of the fleeting no-tion, and glanced up to face an Irish housemaid of freekled visage and

housemaid of freekled visage and ruddy wealth of hair.
"I should like to look over the house," he said simply.
The woman having wiped on hands on her apron, proceeded way, the same article to wipe the door knob, hesitating the meanwhile give re

knob, besitating the meanwhile to give reply.

"The lady beez out, sor," she re-turned at length; "an' sure I'm that busy mesili I can't be afther lavin' the kitchen." Then, having looked iny, and being apparently satisfied, she added, "If yez don't mind, yer might be afther lookin' roun yer-sili."

Carden nodded his approval of the uggestion. Nothing could have suitsuggestion. No

sogge-son.

ed him better.

"All right, my good woman." he
acquiesced. "Pray don't let me inmay take some little will duties. I may take
some little will duties. I may take
some little will duties. I may take
some little will duties. I may take
some measurements."

"Don't hurry, sor." she told him.
"Take yer time. I'll be hopin' Mrs.
Penfield is home before yez gets
't'ough. She can till yez about the
rint, sor."

(Conclusied next week)

(Concluded next week)

## 10 10 10 Vacation for the Farmer

If we consider not the worker but work, then a man's need for a vaca-tion is measured by the laborious-ness of his duties, the time and exertion which he expends upon them and the lack of cheering and recreating influences in his surroundings. The farmer's life, though one of in dependence and immunity from tem-ptation, is also one of long hours and drudgery. Though the farmer breathes purer air, and gazes daily upon clearer skies than many of his brother mortals, he must leave home and become fully aware of it. Though and become fully aware of it. Though perhaps he looks upon that part of the handiwork of God which is least polluted by the finger marks of man, he sees altogether too little of the works of both God and man. He needs a vacation not only for the purpose of rest and diversion, but also to increase his confidence and augment his knowledge.

The vacation of the farmer differs radically from that of the city book-keeper or clerk. The latter longs to escape the confinement of a narrow and uncomfortable office—to get out in the woods or fields, where he can

and uncomfortable office—to get out in the woods or fields, where he can throw off his dignity, and run, and shout, and frighten the little calves. The former desires to forget for a time the dull monotony of the farm; he wants to banish from his sight those very cows and little pigs which gladden the eyes of the city man; he wishes to get away from home and "see the sights." From this it will be readily seen that the ordinary vacation in which fishing tackle, straw hats and camping outfits figure to a greater or less extent, is not the farmer's, or at least does not merit being lengthily treated in answer to the question "Do the farmer and

the question "Do the farmer and his family need a vacation?"

In general, the farmer should take his vacation in the city. He cannot, as a rule, take it regularly at a given now all these had disappeared. The ground floor showed inside shutters some small change from his rouse crossed the street and, on nearer sproach, found that it read:

This effort to adorn the old dwelling with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed

"How old are you, my boy?" Carbing with modern novelties distressed with modern novelties and not not modern novelties with modern novelties



He became the object of interest to three small urchins.

ing with keen, eager, childish inter-est, this tall, elderly, well-dressed gentleman, who seemed for all the world like a wax figure, so still and quiet he stood. As he turned upon them it was with such disconcerti-ing abruptness, that for the moment they were undecided whether to fiee or to offer excuse for their rudeness. The largest of the three was the boy pallid cheeked, but with big, bright intelligent brown eyes; the other two were girls, in all-enveloping blue-and-white check aprons.

white check aprons.

Carden smiled as he looked at them, and his smile dispersed their alarm. For a little minute, however, he did not speak, and the children were likewise silent. Then he took some small change from his rousers pocket, and held out a dime to the lad, who shyly retreated a step with head on side, but with eyes fixed upon the lure.

"How days you was how?" Care

"and to think of all the things that I wasn't allowed." And then he fell to wondering how the house might look on the inside There must have been a world of changes, of course.

But he should like to see the rooms but he should like to see the rooms once more; that big, second story front room, especially, wherein his had first met the world's light—his voice had uttered its primal infant

As he gazed, thus thinking, his eye detected what it had not hither-to noticed, a small, white placard pasted upon the wall between the two lower windows. The legend that it bore was not distinguishable to his near-sighted eyes at the distance, so he crossed the street and, on nearer approach, found that it read:

of taking a vacation. When extensive purchases in the household line are the object of a visit to the city, the farmer should be accompanied by his wife. It is the latter, often, who most needs a vacation. When shopping only is to be done, the vacation should be confined entirely to the female members of the family. Other opportunities for visits to the city are state fairs, expositions of all kinds, and invitations from the everlasting city cousins.

lasting, city cousins.
Within the restrictions of formality, espectability and proper consideradespectability and proper consequence of the in proportion as you can be spared from home, or as you are in need of an outing, and as you are enjoying yourself.

# Recessosssssssssssssssss THE COOK'S CORNER

Send in your favorite recipes, for publication in this column. Inquiries pertaining to cooking are solicited, and after receipt of same. Gur Cook Book sent free for one new yearly subscrip-tion at \$1.00 each. Address, Household Editor, this paper. Rossessessessessessesses

## SOUR CREAM PIE

To the beaten yolks of 4 eggs add 1 cup of sugar, 1 cup of chopped raisins, 1 cup of sour cream and ½ teaspoon of cloves. Cook until thickened in a double boiler. Fill a baked pie shell, cover with meringue made from the whites of the eggs and brown slightly in the oven.

## BAUSAGE

Use 34 part lean meat to 34 part at. To 100 lbs ground meat add 1 qt salt, ½ cup ground black pepper, and ½ cup sage. Mix thoroughly and stuff into casings and smoke, or make into cakes, fry, and put away in jars covered with melted lard.

## OX TAIL SOUP

Two oxtails, 1 oz. of good be dripping, I carrot, I onion, little turnip, I stick celery, a dozen peppercorns, two cloves, 2 qts of cold water or a little more. Cut the tails into



Catalogue Free

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Berlin Woodenware Co ONTARIO

## BIG BOOK BARGAINS

joints remove all the fat an wash well. Melt the dripping in a stew pan, when hot put in the joints and fry a good brown, pour off the fat, add the water and little salt, let come slowly to boil, skim well. Prepare your vegetables, cut into small pieces, put them in the pan, also the cloves and peppercorns. Simmer all gently for 3½ hours, then strain soup into a basin and let it get cold, next skim off every scrap of fat. Reheat the soun and not the same and not the strain the soun and not the same and the strain the soun and not the same and the strain the soun and not the same and the soun and not the same and the soun and not the same and the s the soup and put the small joints of the tail and any neat pieces of meat from the larger ones into it. Seast carefully to taste, Serve very hot.

## PLAIN POUND CAKE

Two cups of white sugar, 1 cup of butter, 1 scant cup of milk, 4 eggs, 3 cups of flour, 3 teaspoons baking powder, vanilla, salt.

## DE DE DE Canning and Preserving RASPBERRIES

Twelve qts. of raspberries, and 2 its. of sugar.

ts. or sugar.

Put the two qts. of sugar in the preserving kettle; heat slowly on the stove; crush with a wooden vegetable masher; spread a square of cheese cloth over a bowl, and turn the crush ed berries and juice into it. Press out the juice, which turn into the pre-serving kettle. Add the sugar and put on the stove; stir until the sugar and put on the stove; stir until the sugar is dissolved. When the syrup begins to boil, add the remaining 10 qts. of berries. Let them heat slowly. Boil berries. Let them heat slowly. Boil 10 minutes, counting from the time they begin to bubble. Skim well while boiling. Put in cans and seal.

RASPBERRIES AND CURRANTS 10 qts. of raspberries, 3 qts. of cur-

rants, 2½ qts. of sugar.

Heat, crush, and press the juice from the currants and proceed as directed for raspberries. Blackberries—

the same as for raspberries. Currants, —12 qts. of currants, 4 qts. of sugar. Treat the same as for raspberries.

## GOOSERERRIES

Six qts. of berries, 1½ qts. of sugar, 1 pt. of water. Put water, berries, and sugar in the preserving kettle; heat slowly; boil 15 minutes, counting from the time the contents of the kettle bubble.

CHERRIES

Six qts. of cherries, 11/4 qts.

sugar, % pt. of water.

Measure the cherries after the stems have been removed. Stone them or not, as you please. If you stone them be careful to save all the juice. Put the sugar and water in the preserving kettle and stir over the fire until the sugar is dissolved. Put in the cherries and heat slowly to the boiling point. Boil 10 minutes, skimming carefully.

## GRAPES

Six qts. of grapes, 1 qt. of sugar, 1 gill of water.

Squeeze the pulp of the grapes out of the skins. Cook the pulp 5 min-utes and then rub through a sieve that is fine enough to hold back the seeds. Put the water, skins and pulp into the preserving kettle and heat slowly to the boiling point. Skim the fruit and then add the sugar. Boil 15 minutes.

Sweet grapes may be canned with less sugar; very sour ones may have

## RHURARR

RHUBARB
Cut the rhubarb when it is young and tender. Wash it thoroughly and then pare; cut into pieces about two inches long. Pack in sterilized jars. Fill the jars to overflowing with cold water angle let them stand 10 minutes. Train off the water and fill. udes. Myain off the water about again to ovesflowing with fresh cold water. Seal with sterilized rings and covers. When required for use, treat the same as fresh rhubarb.

Green gooseberries may be caused wrappeaper

in the same manner. Rhubarb may be cooked and canned with sugar in the same manner as gooseberries.

## 80 M N Fruit for Jelly Making

An acid fruit is the most suitable for jelly making, though in some of the acid fruits, the strawberry, for example, the quantity of jelly making pectin is so small that it is difficult to make jelly with this fruit. If, however, some currant juice be added to ever, some currant juice be added to the strawberry juice, a pleasant jelly will be the result; yet, of course, the flavor of the strawberry will be modified. Here is a list of the most desirable fruits for making jelly.

sirable fruits for making jelly. The very best are given first: currant, crab apple, quince, grape, black-berry, raspberry, peach.
Apples make a very mild jelly, and it may be flavored with fruits, flowers, or spices. If the apples are acid it is not advisable to use any flavor-Juicy fruits, such as currants, rasp-flavores, etc., should not be gathered and the property of the pro difficult, without excessive boiling, to

get the juice to jelly.

If the berries are sandy or dusty it will be necessary to wash them, but the work should be done very quickly the work should be done very quickly and them. so that the fruit may not absorb much

Large fruit such as apples, peaches, and pears must be boiled in water un-til soft. The strained liquid will con-tain the flavoring matter and pectin. It requires more work and skill to

make jellies from the fruits to which water must be added than from the juicy fruits. If the juicy fruits are gathered at the proper time one may be barely sure that they contain the right procession. right proportion of water. If gathered after a rain the fruit must be boiled a little longer that the superfluous water may pass off in steam.

In the case of the large fruits a fair

In the case of the large fruits a fair estimate its 3 qts. of strained juice from 8 qts. of fruit and about 4 qts. of water. If the quantity of juice is greater than this it should be boiled

down to 3 qts.

Apples will always require 4 qts. of water to 8 qts. of fruit, but juicy peaches and plums will require only 3 to 3½ qts.

The jelly will be clearer and fin

if the fruit is simmered gently and not

stirred during the cooking.

It is always best to strain the juice first through cheesecloth and without pressure. If the cloth is double the pressure. If the cloth is double the juice will be quite clear. When a very clear jelly is desired the strained rice should pass through a flannel or felt bag. The juice may be pressed from the fruit left in the strainer and used in marmalade or for a secondquality jelly.

quality jelly.

To make jelly that will not crystallize (candy) the right proportion of sugar must be added to the fruit juice. If the fruit contains a high percentage of sugar, the quantity of added sugar should be a little less than the quantity of fruit juice. That is to say, in a season when there has been a great deal of heat and sun-shine there will be more sugar in the fruit than in a cold, wet season; con-

fruit than in a cold, wet season; consequently, 1 pt. of currant juice will require but \( \foathermal{g} \) of a pt. of sugar. But in a cold wet season the pt. of sugar for a pt. of juice must be measured generously.

Another cause of jelly crystallizing, is hard bolling. When the syrup boils so rapidly that particles of it are thrown on the upper part of it are thrown on the upper part of it are thrown on the upper part of the contract of the property of the country of the property of the country of the property of the PACKING CANNED FRUIT

Each jar or jelly glass must be wrapped in several thicknesses of soft paper (newspapers will answer).



-sparkling in its whiteness-looks as pure as it The tastes. Windsor Fine and savour is pure. peculiarly delicate and lasting. Ask your grocer for it.

Make pads of excelsior or hay by spreading a thick layer between the folds of newspapers. Line the bottom rouge of newspapers. Line the bottom and sides of the box with these pads. Pack the fruit in the padded box. Fill all the spaces between the jars with the packing material.

the packing material.

If the box is deep, and a second layer of fruit is to go in, put thick pasteboard or thin boards over the first layer and set the wrapped jars on this. Fill all the spaces and cover the top with the packing material. Nail on the cover and mark clearly:

Glass, this side up.

The great secret in packing is to fill every particle of space so that nothing can move.

CANNING AND PRESERVING UTENSILS In preserving, canning, and jelly making, iron or tin utensils should never be used. The fruit acids attack these materials and so give a bad color and metallic taste to the products. The preserving kettles should be porcelain lined, enameled, or of a metal that will not form troublesome chemical combinations with fruit juices. The kettles should be broad rather than deep, as the fruit should not be cooked in deep layers. Nearly all the necessary utensils may be found in some ware not subject to chemical action. A list of the most essential articles follows:

Two preserving kettles, I colander, I fine strainer, I skimmer, I ladle, I large mouthed funnel, I wire frying basket, I wire sieve, 4 long handled wooden spoons, I wooden masher, a few large pans, knives for paring fruit (plated if possible), flat bottomed clothes boiler, wooden or willow rack to put in the bottom of the boiler, iron tripod or ring, squares of cheese cloth. In addition, it would be well to have a flannel straining bag, a frame on





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which to hang the bag, a syrup gauge and a glass cylinder, a fruit picker, and plenty of clean towels.

and plenty of clean towels.

The regular kitchen pans will answer for holding and washing the fruit. Mixing bowls and stone crocks can be used for holding the fruit juice and pared fruit. When fruit is to be plunged into boiling water for a few minutes before paring, the ordinary stewpans may be used for this pur-

are a desirable article in every kitchen, as weighing is much more accurate than the ordinary measuring. But, knowing that a large percentage of the housekeepers do not possess scales, it has seemed wise to give all the rules in measure rather than weight.

The wooden rack, on which the bottles rest in the washboiler, is made in this manner: Have two strips of wood measuring 1 inch high, 1 inch wide, and 2 inches shorter than the length of the boiler. On these pieces of wood tack thin strips of wood that are 1% inches shorter than the width of the boiler. These cross-strips of the boiler. These cross-strips should be about 1 inch wide, and there should be an inch between two strips. This rack will support the jars and will admit the free circulation of boiling water about them. Young willow branches, woven into a mat, also make a good bed for bottles and jars.

(Continued west week)

... Soap and soda often softens the bristles of a brush and turns an ivory back yellow; a tablespoonful of amin a quart of warm water is ently cleansing. Combs should sufficiently cleansing. not be washed if it can be avoided as water is apt to split the teeth.

They can be kept clean with a small brush which is sold for the purpose, A Washing Help

Housewives who don't have sta-tionary tubs may find of use this use this tionary tubs may and or use this suggestion from my experience. A rubber tube (which may be purchased by the foot, of any druggist) fits over the faucet at one end, while the other the faucet at one end, while the other reaches into a tub. All the cold water I use is drawn in this way, the boiler being filled as well as the tubs. A housekeeper who has a hot water faucet could draw the hot water in

this way as well as the cold.

At one side of each tub close to At one side of each tub close to the bottom a tiny hole was bored and fitted with a small plug. To make assurance deubly sure, I cover the plug with a cloth, drive it in with a hammer, and pour a little boiling water right over the plug, after it is firmly in positioa. This hot water swells the was large water government.

from leaking.

When the tub reeds emptying, this plug is withdrawn by a pair of denplug is withdrawn by a pair of den-tist's forceps, (the most useful tool in the kitchen tool chest), a pail be-ing placed under the hole beforehand. The water will flow into the pail with-out a tube. When it is filled, place a dipper underneath the hole while em-ptying the water. This hole saves dipping the water up to put into the vail:

The rubber tubing is cheap, and lasts a long time when hot water isn't lasts a long time when hot water isn't drawn through it. If a woman is frail she should fill all single pails of water with this tube, since it is easier to lift a pail of water from a chair by the sink, or even from the floor, than it is to lift it up over the sink board—this takes a distinct

Keep an old stool or chair without a back (the latter is the more useful of the two), near the sink. On it can be set pails which are to be fille with water by the tube. It can h It can hold mop the floor, saving the constant stooping over to wring the mop, which makes mopping so tiresome. One may drop into it when preparing vegetables, it being a change from the high stool. Useful for number-less things besides.—Ruth Hartley, less things besides.— Hastings County, Ont.

DE DE DE Preserving Eggs

Preserving Eggs
When eggs are cheap, they should
be put down for household use. Like
everything else, it is good to buy
when the market is down, and sell
when it is up. Just now a hint along
this line will be timely. Experiments
have been conducted with all kinds
of processes, and from all these experts turn, to the simplest and best

method, known as "liming," Pick out absolutely fresh eggs, and having obtained a clean, watertight barrel, put in carefully the quantity or a portion of the eggs intended to be preserved. They may be put in any portion of the eggs intended to be preserved. They may be put in any way provided they are not cracked. Take a separate receptacle, and make a saturated solution of lime as fol-lows: Slake a pound of good quick-lime in enough water to make a sort of milk, and when thoroughly slaked stir this into five gallons of water. Keep this stirred for a few hours and then allow it to settle. Draw off the clear lime-water, the latter made in the proportion indicated, until there the proportion indicated, until there are enough eggs in the pickle. The barrel should be kept covered with a fairly tight lid to keep away the air, and put in a cool place. The eggs will keep almost for an unlimited time, but they must be kept covered with the line water. A little sweet with the lime water. A little sweet oil poured on top will act as a pro-tection against the air, or a piece of sacking covered wiht a pack of the lime makes a good cover,

## . . . Bringing Good Results

It is evident that the premium offer act week in the Household Department, is being watched with interest by our readers. Several new subscribers, all at \$1 a year, have been recently secured through these offers, and the persons securing the same have been sent their premiums as a reward for their efforts in securing the subscriptions. Letters from the the subscriptions. Letters from the persons winning the premiums will be published in an early issue of the

It should not be very hard work It should not be very hard work to secure one, two, or even three new subscribers at \$1 a year. Try and secure one of the premiums for yourself. Watch our premium offer. It changes each week. There may be some articles offered for premiums that you have been needing for a long time. This will be an easy way to secure them. Address all letters to The Household Editor, Canadian Dairyman and Farming World, Peterboro, Ont. . . .

Washing Delicate Embroidery

Make a good lather with soap and Make a good lather with soap and warm water, adding one-fourth of a teaspoonful of powdered borax to each quart of water. Place the articles in an ordinary glass fruit jar, then nearly fill the jar with the lather. Seal tightly, shake the jar a little, and place it in bright sunshine for twenty-four hours. Of course, if the weather is cloudy, the time should be allowed for. Turn the jar around occasionally, so that the sun may pene-casionally, so that the sun may peneweather is cloudy, the time ahould be allowed for. Turn the jar around oc-casionally, so that the sun may pene-trate every part. When the time is up, pour off the lather, press the fab-ric gently, then rinse several times in clear, soft water. Return it to the in clear, soft water. Return it to the jar with more clear water, set it again in the sun, changing the water daily, until the material is white. I recently renovated a bit of fine old hand embroidery, which had become as yellow as saffron, by this method, and it was beautiful.

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and contains several hundred reliable and tested recipes, and much addi-tional information regarding the var-ious processes of cooking. It is a book well worth the efforts of every book well worth the efforts of every housewife to secure. Send your new subscriptions, and money for same, to the Household Editor, The Cana-dian Dairyman and Farming World, Peterboro, Ont.

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

Patterns 10 cents each. Crder by number, and size. If for children, give age; for adults, give bust measure for waists, and waist meas-ure for skirts. Address all orders to Pattern Department.

Lessessessessessessesses MISSES' WAIST 5958



Simple styles ways are best for young girls. Such blouse as this fin innumerable uses, is charmingly ma uses. A is charmingly made, with the open square neck, but can, nev-ertheless, be finished with a chemisette, making it high, if it is found more sat-

isfactory. Material required Material required for the 16 yr. size is 5% yds or 24, 2½ yds 44 ins. wide with 2% yds of banding and ½ yd. 19 ins. wide for

The pattern is cut in sizes for girls 14 and 16 yrs., and will be mailed to by address on receipt of ten cents.

TUCKED SKIRT WAIST 5964.



RT WAIST 3000.

The waist that is trimmed with buttons is one of the novelties of the season and is exceedingly effective. This one is tucked in a way to be so treated with success and is exceedingly effective and smart. ingly chic and smart. It is tucked to give exceedingly becoming lines to the figure. Material required for medium size is

for medium size is 5; yds. 21 or 24, 3%, yds. 32 or 2 yds. 44 ins. wids. The pattern is out in size for a 22, 34, 36, 40 and 42 inch bust, and will be mailed to any address on receipt of ten cents.

MISSES' YOKE BLOUSE 5926



The blouse that is The blouse that is slightly open at the throat is quite cer-tain to win the ap-proval of the girs who love freedom and active sports. This one is finished with an eminently be-coming coller and is coming collar and is well suited to youthful figures. Material

Material required for the sixteen year size is 3½ yds. 21 or 24, 3½ yds 32 or 2 yds. 44 ins. wide. The pattern is out in sizes for girls of 14 and 16 yrs, and will be mailed to any address on receipt of ten cents.

SHORT JACKET 5067



The short, jaunty jacket that terminates just above the waist line is so gen-erally becoming and so well liked that nothing ever super-sedes it. The jacket is an exceeding! ser-viceable one that high viceable one thawhiciequally available for the entire costume and for the separate wrap which is so convenient to ally on over thin gowns. Material required for medium size is 2½ yds. 21, 1½ yds 27 of 1 yd 44 ins wide with 4½ yds of banding.

banding. The pattern is cut in sizes for a 32, 34, 36, 30, 40 and 42 in. bust, and will be mailed to any address on receipt of ten

DE DE DE

We always watch for The Canadian Dairyman and Farming World. We enjoy the Question and Answer column very much.—Clara Grimwade.



# 

Battus vectorit; north Scottia. Butter has dropped to ilse nad 300: eggs 160: pork, 80 to 90: chicken, 160: veal, 60 to 70: beef carcass, 810 a 100 lbs; po-tatoes, 400: hay, 410: cornmenl, 82 bag: middlings, 81.50: bran, 81.61; bunkwheat, 70c to 81 bu; oats, 650 bu; hides, 80; wild strawberries, plentiful, 10g of Pirst shippment of cultivated berries have been sent ato town this week.

may promises to be plentiful. All fruits still look well, but in the eastern part of the county orchardists have had a terrible fight with the Canker worm. Some orchards said to be almost destroyed. On orchards said to be almost destroyed. On June 27th the annual Parmers' excursion to Truro Agricultural College took place where many people from King's Coun-ty heard addresses from Governor Fraser, Dr. Standish, Dr. Fernow and others.—E.W.

## PRESCOTT COUNTY

PRESCOTT COUNTY

Vanhleek Hill.—The absence of frost in the ground, together with the frequent rains, have made pastures look good. Crops are looking well. Although sown late, the are looking well. Although sown late, the result is a second of the late of th

## GRENVILLE COUNTY

GRENVILLE COUNTY

Charlesville.—Pastures are not very
promising at present on account of the
drought which has prevailed for the last
three weeks. On account of the dry weather, there will be no more hay cut this
year than there was last. Some old meadows are not any better than good paster and worth cutting. Early
strain are poor on account of want of moisture.
Corn is doing fine and is one of the most
promising cropp. Potatoes, 60e a but, 76e
to 80e a bag; milch cows, \$30 each; calves, \$2
to \$51 best, \$10 byte, a but, 1w; hors,
\$10 to \$10 best, \$10 byte, a but, 1w; hors,
\$10 to \$20 best, \$10 byte, a but, 1w; hors,
\$10 to \$10 best, \$10 byte, a but, 1w;
\$10 to \$10 best, \$10 byte, a but, 1w;
\$10 to \$10 best, \$10 byte, a but, 1w;
\$10 to \$10 best, \$10 byte, a dos; creamery butter \$00 a lb; prints, \$00.—Q.W.O.

COSSEP

# COSSIP

## RIVERSIDE STOCK FARM

Possibly no more picturesque scene is noticed as the traveller nears Montebello. Possibly no more picturesque seene is noticed as the traveller nears Montebello, Que. on the Sorth Shore C.P.R. line, than for the control of pearance as well as being economical pro-

oers. the fall. The cream is sent to Montreal during the winter season, and the whole milk to the creamery during the sum-mer. The manager, D. Boden, began keeping milk records several years ago, and kept records until last year when the barn was burnt. Since that time things have been somwhat disorganized so that have been somwhat disorganized so that records fave not been kept during the past year. Now that the stock have cor-fortable quarters in their new stable, they will not only keep records but enter a number of the cow in the Record of Performance test. The new stable and barn is a model of

COUNTRY NOTES AND IRICES

stands frame with Gother cord. A water
supply ever flowing from a spring, supplies

KINGS COUNTY, NOVA SCOTIA

Butter has dropped to 18e and 20e; erge
to 7e; beef carcaas, 810 a 100 [bs.; por,
to 10e; pork, 80 to 9e; chicken, 18e; veal, 4e
to 7e; beef carcaas, 810 a 100 [bs.; por,
to 10e; pork, 80 to 3e; veal, 4e
to 7e; beef carcaas, 810 a 100 [bs.; por,
to 10e; pork, 80 to 3e; veal, 4e
to 7e; beef carcaas, 810 a 100 [bs.; por,
to 80 to 80 to 10e; pork, 80 to 10e; por,
to 80 to 10e; pork, 80 to 10e; por,
to 10e; pork, 80 to 10e; pork,

Of the Yorkshires there are usually 10 to 12 brood sows of the best strains kept here. They were originally of the Holywell strain crossed with the Oak Lodge that of the Holywell strain crossed with the Oak Lodge timported from the best herd in the Old Country. The present stock boar is from Cedar Lodge Royal 125%2.

A number of Clydesdale mares are kept A number of Clydesdale appendid class of draught horses. The Shetland ponies are of the best blood and make up that can be secured. Senator Ovens will be pleased to have intending purchasers give him a wall.



What is The New System of Scientific Agriculture?

Nothing more than judgment and common sense shown in handling the soils of our western tracts so that the rainfall may be suid for immediate absorption by the root filters of growing crops. It's a system that every farmer—lists, Weis, North or Southers mydistally failed, and the property of the system of the state o

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Bry with a few hundred dollars once of the cheap treats now openerously ofered. Startto be independent. Here a home of your own. Come! Breathe the lung-intriporating, health-piving come of Colorado, miny the gladeling smanhine. Get more gladeness out of life next to the soil. Plant trees, orchards, as us, waich them grow as you narse and tend them. Be free!

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Book Free. Our new free book fresh from the press is described below and tells why you'll be glad after you "Hurry to Colorado." Send for it now.

## Explanation of Cuts Below.

Photo at left. These are stacks of Alfalfa on the farm of D. J. Shearer. Photo at right. An enormous polato field—to acres—harvesting over 800 be, to acres—Thoo be. in all and sold on the ground for \$300.00.

# "Hurry to Colorado" Now

fast passing opportunity. Here are cheap lands passibilities for great increase in land values, he ils, etc. Embrace this chance. Do it now, the

The Farmers Land & Loan Co.,



# WARRANGERSON OF THE WARRANGE O MARKET REVIEW AND FORECAST

Toronto, July 6th, 1968.—The most that can be said in regard to the general trade situation is that the outlook is brighter. The prospects of a big hard to be sufficient to the control of the prospects of a big hard to be sufficient to the control of the prospects of a big hard to be sufficient to the control of the prospects o

## FARMS, HOUSES AND LOTS FOR SALE.

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198 ACRE FARM FOR SALE—Soil. elay loam in good state of cultivation: soil brick house and kitchen, harn on stone foundation. Little, the state of th

AUARTER SECTION.—Good house, well and water: thirty acres cultivated: 6 miles from railroad: 813 an acre. Box N. Can-dan Dairyman and Farming World, Peterboro. OUARTER

FARM FOR SALE, situated near the vil-lage of Athelstan, Que., convenient to railway station, church, post office, etc. For particulars apply to Box P. Cana-dian Dairyman and Farming World,

15 ACRES — Town of Brampton, twenty miles west of Toronto, choice garden and fruit and the state of the state of the sechols, churches and railroad connec-tions with Toronto: bargain, for set-quick. Box 56, Canadian Dairyman and Farming World, Peterboro.

328 ACRES-3½ miles from limit of Cal-gary, 1 mile from school, church, post office, store; all fenced: running water, small house, some outbuildings: land selling all around for 835 to 875; a snap for 825 an acre. Half cash, half term Owner. Apply, Box 69, Canadian Dairy-

229 ACRES, choice land, main road, con-man and Farming World, Peterboro. venient to schools, churches, two good, enormous crops raised, touches small lake; will sell direct to farmer, 85,500, Box 65, Canadian Dairyman and Farm-ing World, Peterboro.

## MISCELLANEOUS ADVERTISEMENTS

WANTED.—Persons to grow mushrooms for us at home, waste space in cellar, garden or farm can be made to yield iffteen to twenty-five dollars per week. Send stamp for illustrated booklet and full particulars. Montreal Supply Co., Montreal.

the second secon

It is surprising how well the oat market keeps up. There is every indica-tion of a big erop, yet prices keep up at a high level. There is a good demand in the English market and cables are 3d higher. On this side the market is quiet. higher. On this side the market is quiet, with prices steady. Here quotations are 42c to 45c outside for Ontario, and 42c to 45c outside for Ontario, and 42c to 45c for Manitoba rejected at lake ports. A great many oats are being market. It is not the market have the same and t

## FEEDS

FEEDS
The market for mill feeds shows no further decline during the week. The demand has fallen off, but as the mills are running light, stocks have not accumulated. At Montreal local millers are asking \$22 a ton for bran in a jobbling way. Ontario bran is quoted at \$30 to \$25.00 a ton in car lots. Bran is quoted here at \$6 a ton in bulk, and shorts at \$6 a ton in bulk, and shorts at \$6 a ton in bulk, and shorts at \$6 to \$6756. Corn is quoted here at \$70 to \$6756.

THE

INCORPORATED 1885

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and other quality at 87 to 89. Here timothy is quoted at 89 to 810.50 a ton in car lots, on track, Toronto, and No. 2 at 87.50 to 82.50. Baled straw sells at 87 to 89 a ton in car lots. On Toronto farances market loose hay sells at 810 and 813, and straw in bundles at 850 to \$11 a ton

## POTATEOS AND BEANS

POTATION AND BEANS
Old potatoes are scarce and the market is stronger. Old are quoted here at
it o \$1.0 a bag, and new at \$4 a bbl.
in car lots on track, Toronto. On the
farmers' market here new sell at \$5 to
\$2.2 a bbl.
Price To be an are the firm. More libPrice To be and the firm. More libPrice To be and the price beans at More lib-

55.25 a DDL.
Prices for beans rule firm. More lib-eral offerings for foreign beans at Mon-treal is affecting the home trade some-what. Primes are quoted here at \$2 to \$2.10 and hand-picked at \$2.10 to \$2.15 a

## EGGS AND POULTRY

EGGS AND POULTRY
Egg receipts show considerable shrinkage and prices are higher. The demand
is for selects, which are scarce, and
prices are higher. At Montreal select
stock is quoted at 19t to 20c. Here quotations rule at 18t to 19½ a dozen in case
tots. On Toronto farancer market newtots. On Toronto farancer market newtots at 20c to 20c a dozen, dressed
chickent at 20c to 20c a dozen, dressed
chickent at 20c to 20c a dozen, dressed
at 30c fowls at 13c to 15c; and turkeys
at 17c to 20c a 1b.

## FRUIT

The strawberry season is about over. It has been a short one. Prices have ruled fairly good and better perhaps than was divided by the strain of the strain of the week hack. At the end of the week receipts had fallen off somewhat and prices ruled at 7c to 5c a box wholeasle. Raspherries are coming cherries at 81 to 81.40 and 7s to 5c absket; red currants, 7sc to 81.25 blue berries, \$1.75 to 82, and gooseberries at \$1 to 81.50 a basket; as basket; as basket; as basket.

## DAIRY PRODUCTS

On it is gooded here at 79c to 1900. BAIRY PRODUCTS

These is a little easier and quotations.

HAY AND STRAW.

Want of rain in some sections of Eastern Ontario and Quebee has leeseend the prospects of a big hay yield, but all over the province conditions are favorable for a good average yield. Many a life of 1900 to 1900

likelihood of making up the deficiency this season. Toronto produce dealers quote large cheese at 12c to 13½c a 1b and twins at 12½c a 1b. The export demand for butter has fall-en off somewhat, prices remain at a

The export demand for butter has fall-en off somewhat, prices remain at a high level for this season of the year. Reports from some of the creamery sec-ter of the season of the year. Second of the second second second 25 to 25½ are the ruling figures at Montreal. The market here is firm, creamery prints selling at 25c to 25c; sol-ida at 21c to 25c; choice dairy prints, 15c tube at 15c to 25c choice dairy prints, 15c tube at 15c to 25c choice dairy prints, 15c tube at 15c to 25c. and 25c. and 25c. and we will be a 15c. and 25c. and 25c

# UNION STOCK YARDS HORSE EXCHANGE

There was a little easier feeling in the 

## LIVE STOCK

LIVE STOCK
Receipts of live stock ruled fairly large last week, though Wednesday being a holiday the total receipts were out into somewhat. Beginning on Monday at the Union Stock Yards the trade was generally slower for the built of the cattle opporters and butchers, are no lower. It is the common run, including the many grass fed cattle, that are now offering that are easier. The built of the export cattle are sold at the Union Stock Yards. Cattle are sold at the Union Stock Yards. Let 14% on the University of the University of

ABSORBINE, JR., for man lind, gl.00 Bottle. Cures Strains, Gopt, Varicose Veins, Varicoccie, Hydroccie, Prostatitis, kills pain.

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For the month of June the total cattle exported was 1962, as agains 15.389 for the corresponding month of 1967. June, however, shows an increase of a cattle shipments of 150 over May of this year. The exports for the season to the end of June was 15.732 head, as against 17.534 head for the same period of 1967, making a net head of the same period of 1967, making an exhipments of American cattle from Montreal this season is 7979 head, as compared with the same period of 1967. Shipments are likely to increase during July and August, as many ranch cattle in the Treight space from Montreal is reported the property of t For the month of June the total cattle exported was 9462, as against 15,249 for

See in some cases to Liverpool.

Excepting for choice lots, butchers cattie are lower The bulk of the offerings
the are lower of the control of the conunity fat core and marked the conare reported by dealers to be the best
are reported by dealers to be the best
are reported by dealers to be the other
consumers. The control of the concontrol of the control of the control of the control of the conconsumers of the control of the constate of the constate of the constate of the control of the con
trol of the

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE Montreal, Saturday, July 4, 1960. — The Montreal Stews fell off this week after the sharp scheese fell off this week after the sharp scheese fell off this week after the sharp scheese fell of this week after the sharp scheese fell of this week after and it was quite evident within the few and it was quite evident within the scheese fell of the same that the felling was reflected at Campbellford on Tuesday, where the Landson of the same that the felling was reflected at Campbellford on Tuesday, where the previous Saturday. The proposed of the previous Saturday. The proposed is the proposed in the previous Saturday. The proposed is the proposed in the same proposed in the same proposed in the proposed

we will be a considered to the considered to the

The butter market has also cased off a bit since last week, and markets this week in the country are about a half week in the country are about a half cent as lo lower than the previous week. There is not very much demand from the other side, and there is no doubt has prices will have to come still lower to bring on the export demand.

# THIS WEEK'S HOC PRICES

THIS WEEK'S HOC PRICES
The Wm. Davies Company, Toronto,
will pay \$6.65 f.o.b. this week for hogs,
at country points. This is an advance of
Se a cut. over last week's quotations.
They report the bacon market as not
They report the bacon market as not
in the earlier part of the week.
The Montreal Trade Bulletin's cable of
July 2nd quotes Canadian bacon as follows: The meat market is firmer and
prices have mades further advance of is.
COMMERAL HOU MARKET
WM. ONTERAL HOU MARKET

Ganadian bacon being quoted at 58 to 62."

MONTREAL Hoß MARKET

Montreal, Saturday, July 4.—The market
for live hogs is firm at the recent adyearce. Prices have been steadily maintained owing to the light receipts and
sources. The offerings bins week fetched
\$6.50 to \$6.75 a 100 lbs. for selected lots
weighed off cars.
The demand for dressed hogs is fair.
There is no change in quotations which
remain its properties of the fetched
that the control of the control of the control of the control

The demand for dressed hogs is fair.

remain at about \$9.50 a 100 lbs.

FITIERBORO HOG MARKET.
Peterboro, Ont., July 4, 1908.—A stronger export market and good cabbes from the other side, and the Old Country market, ket, and consequently higher prices. Deliveries are fair, with quite a few light, unfinished hogs coming in. Buyers are discriminating against these. The George Matthews Co quote the following for this work of the country of the country of the country of the country points, \$8.50 a cet., latercred at abattor, \$6.65.

## UNION STOCK YARD PRICES

West Toronto, Ont., July 6, 1908.—There was another large run at the Union Stock Yards this morning, consisting of

1.721 cattle, 122 sheep, 37 hogs and 24 by a very clever contrivance in the shape calves. The quality showed some improvement over recent arrivals. The lodge the provement over recent arrivals. The lodge the cattle market was away off and quite a price and the cattle market was away off and quite a price was cattle to the cattle market was away off and quite a province of a 142 state of 152 s

a to 85 a cert. Sheep are lower at 83.50 to 83.65 a cert. For even and 85 to 83.65 a cert. For even and 85 to 83.50 for rams. Spring lambs cold at 87.50 to 87.75 a cert.

A Successful Manufacturing (Continued from page 12.) is now supported by a stud, which fits in a hole in the immediate centre of the top of the frame, adding greatly to the top of the frame, adding greatly to the thumb screw which held the milk supply can to the bracket, has been replaced ceipt of postal.

## Cheese Board Prices

noune	Date of Met'g	WH	ITE CHE	ESE	COLORED CHEESE			
BOARD		Boarded	Lowest Price	Highest Price	Boarded	Lowest Price	Highest Price	
Kingston London Alexandria Belleville Brockville Stirling Winchester Madoc Napanee Perth Kemptville, Listowel Ottawa Picton Cornwall Russell Vankleek Hill,	J'ne25 " 27 July 2 " 2 " 2 " 3 " 3 " 3 " 3 " 3 " 3 " 3 " 3 " 3 " 3	62 767 2,256 882 16 1,300 130 2,466 478	no sales no sales no sales no sales 11	112 bid	980 1,796 1,179 235 2,442 915 962 8,200 1,447 250 785 774 2,195 1,500 2,000	no sales no sales 11½ few sold no sales 11½	11½ bid 11 9-16 11 9-16 11 9-16 11 19-16 11 11 7-16 11 11 11 11 11 11 11 11 11 11 11 11 11	
QUEBEO Huntingdon St. Hyacinthe Cowansville Victoriaville	" 27 " 27	221 937 568 4 cars off	11g 11g ered, few	11 15-16 12 12 12 lots sold	337 10 at 11½	*********	11 15-16 12 1-16	
NEW YORK Waterdown	J'ne27	9,000 3,100		11 11 h				



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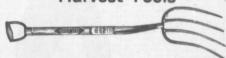


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