Issued Each Week-Only One Dollar A Year

## Dominion Cleànser

FOR DAIRY USE


Apectally Preppares Fon Cleaning Milk Cans, Bottles, Churns Separators, Etc. Also for all Household Utensils.

## Jade the intiative and referendum impricticable and UIIDESIRABLE?

## H. Beatty, Missisquoi Co., Que.

IN Farm and Dairy, May 8th, th article, "Legislative reforms that would Elyo farmers more power," attracted my attention. I have al-
ways admired the manner in ways admired the manner in which Farm and Dairy has tried to elevate the farming industry, This system of Referendum and Initiative, however, would not, I believe, benefit the farmer, and wou'd seriously handicap the progress of other industries that must be considered as well as the farming industry in any proposed legislation. Being a subscriber to your paper, I am taking the liberty to present the following arguments against the Referendum and Initiative.

## Sanitary Utensils

Keep all your dairy utensils sanitary by using Dominion Cleanser, and increase the value of your Dairy products.

Try Dominion Cleanser for your milk cans, for the cream separator, and also for use in the household. We can supply you with Dominion Cleanser ; also everything in Dairy Supplies.

## Just at This Busy Season

with competent help so scarce, think how niee it would be to be able to separate your milk in half the time you now do it with an ordinary separator: Send for hooklet describing "Simplex" Large Capacity, low down, easy turning separators. One of these "Simplex" large-capacity cream separators will cut you work of separating absolutely in two! It'll pay you to
have a large capacity Simplex! have a large capacity Simplex :

It will atso pay you to secal us a rough sketch of your stables, tell us how many cows you vant to milk, say whether or not you have power available, or will require power, and WE'LL FURNISH YOU WITH AN ESTIMATE of just what it will cost you to put in your stable a B-L-K Mechanical Milker. There will be no obligation on
your part to buy. It will interest you to have these facts. It will your part to buy. It will interest you to have these facts. It will pay you, as it pays others, to have a B-L-K Milker.

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WInnlpeg 8t. John Hallfax
net hisherman wanted to put a stop the wheel fisherman. The Referendit State. They was in force in signatures. In the meantime t wheel fishermen did the same thin At an election the electors generimy supported both issues, consequi the salmon industry was killed us fu as legislation was concerned.
Aurely it on indeustral bitaife Surely it must be plain that
Referendum and cause industrial strife. and thon would tie up our industries resilitity from natural producto. It would hat a tendency to throw a country
size into size into ehaotic disorder. moment that restraints are talien away from the direct action of the people in the making and enforcemem of laws, in administering justice a in regulating foreign affairs, they be come the victims of the most odion tyrannv to which any people can bs subjected.

You stated that the system been in vogue in 8witzerland
years and worked admirably years and worked admirably,
perfectly true. perfectly true. Switzerland is a smil country. The population is thrif and largely devoted to the wor caring for the large number ists who visit that country. does this system work so Switzerland? Because the countr amall and concentrated. The Inite tive and Referendum can be of dome ed and positive value in distring small enough to enable the areane voter to form conscious opinions aly are well within his prectical- thed ledge.
impracticable in oanad
it is Reeferendum, as you defined it, is merely the power to create an election by a minority on issues already passed by law-making bodies. The first and greatest objection to
this syatem is the wiping out altothis system is the wiping out alto-
kether of the distinction between the gether of the distinction between the passed in accorda cee with the constitution of our ec untry with as little formality and with as little deibera-
ion as the repeal of some unimportant current legislation. We are not, or never will be, in a mass, well enough informed to pronounce upon questions
of detail. There are very few farmof detail. There are very fow farm-
ers who are in a position to vote imers who are in a position to vote in-
telligently on legislation affecting the iron industry, while men interested in the iron industry could not be expected to vote intelligently on legislaion affecting the farming industry
vorkas vkegus stockhooders
We are not in a position to manag the business affairs of a government. Do stockholders in a large company bother themselves with the management and detail of that company? They hire capable men to do it for them. In the same way we appoint men, sometimes capable, to carry on the business of the government, trusting the details to them.
It may be argued that people make mistakes in forming their judgment of men. This is quite true; but I maintain that they would be more apt to err in dealing with complicated questions involved in practical legislation.
If the Referendum were in force, do gou realize what a chnos in which the country woald continually be? It would be the cause of unneoessary elections. If one government made a tariff favorable to the manufacture of cotton, and not so favorable to the manufacturing of farm implements, the result would be detrimental to both industries, as well as the country in which these manufacturing concerns were situated. There would be a constant and unavoidable internal
strife. strife.

Is inithative "crank" RUlB?
The Initiative, as you correctly defined, is the power to propose laws by a minority. This obviously puts an instrument in the hands of a few cranks and enthusiasts to compel the people constantly to be voting on issues in which only the enthusiasts were interested.
Publie sentiment is fiokle in regard to men. Surely it would be more so in regard to issues. The great trouble with our present system is indifference of the voter. This would be doubly felt under the Initiative and Referendum.
This system would be particularly disastrous to enterprises using the same natural products. In the Columbia Riven there are two mothods of pursuing the salmon fisheries. In the lower and sluggish waters of the stream they fish by the net. In the upper waters they nse the wheel. The

In a country such as Canada, st ing as it does from sea to sea, contain ing a great varicty of soils and nate al products, such a system coull possibly be an improvement present system of government, We must admit, is far from perfec I can do no-tyter than to quat from Woodrow Wilson, who is doubtedly one of the greatest authorit doubtedly one of the greatest author
ties on governments in America. But seys:
"A government cannot make lan through its voters any more than can make laws through its news pers. A government cannot act if organioally by masses. It must huw a law-making body."

For these reasons, sir, I fieel the not be for the and Initiative weth not be for the best interests of Cas ada, and consequently would not $x$ fortunate to have Canadians who in fortunate to have Canadian soil to till

## Coming Events

Diominion Forestry ${ }^{\text {Winn }}$.
Winnipeg, July $7-9,1913$.
Canadiar Industrial
Winnipeg, Man., Juls 8 Industrial Exhibitiag Winnipeg, Man., July 8-16, 1913.
Dominion Exhibition Dominion Exhibition, Brandat Man., July 15 to 25,1918
Regina Regina Exhibition, Regina, Suk July 26 to August 2, 1913.
Saskatoon Exhibition, Sukaton, Sask., August 5-8, 1918.
Edmonton Exhibition
Alta., August 11-16, 1913. Oobourg Horse Show, August 124! Oob
1913.
Canadian National Exhibition, To ronto, August 28 to Sept. 8. 1913. Eastern Exhibition, Sharbrode Que., Aug. 30 to Sept, 6, 1913. Canada Central Exhibition, Ottan Sept. 5-13, 1913.
Western Fair,
Sept. 5-13, 1913.
Vancorver Exhibition, B.C., August 30 to Sept, 6, 1913.

Make provision for short pasiura

Issue

THERE
success success,
Those o fathers' foot deride all find in the re something to chief recomm Logan has C things that new methods management, As a result place is know Quebec provi home, its sub cultivated fiel any man mig shires are nun Financially, M and making it satisfied with Two years ago mixiai Prin Farm id Da dozen or more

Mr. Logan's of the Chateaus right behind 1 115 acres of rat characteristic o and easily work ly. He depend drains. His fa the most of it the road from $h$ ever, has made convenient shap ength of his far on this lane. Mr. Logan, II

## $\square$

An idea of the on
herewith. In addit herewith. In addit
His horees are pure Each Week

Only $\$ 1.00$ a Year
$\qquad$
$\qquad$

## methods of management on a fine farm in quebec

## The Farm of J. W. Logan, Howick, Que., one of the Finest in his Province, Described by an Editor of <br> Farm and Dairy. The Factors that Account for Mr. Logan's Success by an Editor of HERE is something inspiring in a story of

Tsuccess, particularly success in farming. Those of us who are content to follow in our fathers' footsteps, who cling to old methods and deride all things new and "scientific," may find in the record of J. W. Logan, Howick, Que., something to shake our faith in methods whose chief recommendation is that they are old. Mr. Logan has ever striven to keep in touch with things that are up-to-date, wherever possible new methods have been given a place in his farm management.
As a result "Sunnyside Farm," as Mr. Logan's place is known, is one of the model farms of Quebec province. With its tree embowered home, its substantial farm buildings and its well cultivated fields, Sunnyside is a farm of which any man might well be proud. Sunnyside Aymshires are numbered among the best in Canada. Financially, Mr. Logan is making more money, and making it easier, than those of us who are satisfied with older methods and poorer stock Two years ago he entered his farm in the Inter. provincial Prize Farms Competition conducted by Farm id Dairy, and came third among the dozen or more er yies in his province.

> AN ATtRAOTIVE atrvation

Mr. Logan's farm is situated in the rich valley of the Chateauguay River. In fact the river flows right behind his house. His farm consists of ${ }^{115}$ acres of rather heavy soil. The fields, as is characteristic of Chateauguay county, are level and easily worked, but difficult to drain properly. He depends almost altogether on open drains. His farm is only four acres wide and
the most of it located the most of it located on the opposite side of the road from his buildings. Mr. Logan, however, has made the best of this somewhat inconvenient shape by running a lane through the length of his farm and having all fields opening
on this lane. on this lane.
Mr. Logan, like all the other successful com-
petitors in the Good Farms Competition, follows a regular rotation of crops. His arrangement and rotation followed is almost identical with that followed by his neighbor, Mr. Ness, whose farm was described in Farm and Dairy last SepMr. Grisdale, Supt .of Dominion Experimental Farms, and Mr. Logan finds that it works splen-


## Paint inside as well as out

The exterior of the tarm buildinge of J. W. Unan


 - Photo by an editior of Farme.
didly on his farm, enabling bim to maintain and increase the fertility of his soll, to grow the right crops for his cattle, and to keep down the weeds. It covers four years. Corn is one of Mr. Logan's staple crops and fills in one-fourth of the rotation. Following corn is a mixture of oats and barley seeded down. The third year the field is in hay, a mixture of clover and timothy; the fourth year is pasture, and so on year
after year after year.
Mr. Logan considers this rotation an ideal one for a man who specializes in dairying. As all of the fields are well fenced and a lane opens on all of them, Mr. Logan does not experience the difficulty in rotating the pasture that many

## a farmer with poor fences' would be up against. AYRBHIRES HIS PRIDR

## Mr. Logan's chief pride and his chief source

 of revenue are his Ayrshires, of which he had fifty when visited by an editor of Farm and Dairy last July. Of these 28 were milch cows and 15 milking. The milk is shipped to retail dealers in Montreal and the cows freshen to give an even supply the year round. Mr. Logan, it will be noted, is not afraid of winter dairying with lots of corn ensilage and clover hay $t_{0}$ feed. He believes that milk can be produced almost as cheaply in winter as in summer, and the price then is considerably higher.Mr. Logan is beginning to reap the reward that surely comes to the man who has the cour-
age to invest his money in age to invest his money in pure bred cattle and then devotes his energies to their improvement. Sales of surplus stork are every year becoming a more and more important source of revenue, and the time is near when Mr. Logan will de-
rive a greater income from sumbus does from the sale of milk or cream; than he of revenue practically milk or cream; a source from the farmer with ordinary stock.

## FIRST ENVRETMENTE WIST

Mr. Logan was not born with a silver spoon in his mouth. His father before him was a good farmer, and Sunnyside Farm vastly improved under the old man's management. When Mr. Logan assumed control, however, there were many improvements to be made that demandeall of the capital that he had, and more too. Mr. Logan's success is due in a large measure to the wisdom that he showed in investing in improvements. He realized that he should put the first money where it would bring him back more money. Consequently pure bred cattle came in for a large share. The farm buildings, too, were improved. And now these improvements have rendered such good returns that Mr. Logan is contemplating a complete re-arrangement of his farm home, a comfortable brick house one and a half stories high. Mr. Logan preposes to add an additional story and to equip (Continued on pape 10)


An idea of the onderlinese that is everywhere oharaoteristlo of the farm of J. W. Lopan Farm " one of the premium Dairy Farms of Canada.
horowith. In addition to his deeire for neatnees Mr.
His horecs are puride Stock,

 unnyeide Farm" in connection with the Interprovincial Prise Farms methods are denoribed in an adjoining artiole by an oditor of


## Methods of Purchasing Seeds

## T. G. Raynor, Seed Division, Ottawo

It is surprising how many men in the world let others think and plan for them. This is as true in the seed trade as anywhere else. There ave many farmers who ask a dealer for seed and leave the matter wholly to his judgment as to the quality of seed and in many cases the varieties they
will sow. will sow.
It is fortunate that some dealers have made a sufficient study of seeds to be able to advise properly. Too frequently there are those handling seeds who know nothing about them comparatively speaking but are handling them for what they can get out of them. Very often the purchaser doesn't discriminate between these two kinds of dealers; consequently there is an opportunity for serious mistakes being made and perhaps not infrequently purposely. Crops from these seeds are seen in fields along the sidelines and concession ronds.
In collecting some samples of seed pats, whent, and barley, for investigation purposes, that farmers are sowing here and there in the Province of Ontario, it is surprising what some farmers are content to sow. No wonder that weeds are on the increase from year to year, and no wonder the stand is often poor. Poorly graded, poorly cleaned and weed infested seed is being sown too frequently for anything else than disastrous results. When will our farmers learn that good seed like good land is cheap at any price, while poor seed like poor land is dear at any price.
Not, infrequently a man is met who has been the victim of some agent acting for some seed house, usually an American concern. Ho pays two or three prices for seed, as from $\$ 2$ to $\$ 3$ a bushel for soed oats when by fanning his own seed he could make as good having the added advantage that his own seed would be acclimatized. The oats he buys are sold as a certain variety (usually a variety that is little known), as being a great yielder and having the best quality. Experience shows that the new oate may only be a moderate yielder and probably very thiek in the hull. It does well, probably, not so much because of the variety, but because it has been well fanned and graded and given the richest and best tilled piece of ground on the farm to grow in
Many farmers in every locality pin their faith on a change of seed every three or four years as being absolutely necessary to maintain good yields. They believe that seed from heary soils should be used on light soils and viee versa. Frequently this seed is bought of a neighbor whose farm is some miles distant and who enjogs the reputation of having a clean farm, which very frequently means that it is free of wild mustard.
Seed that has been grown under the direction of the Canadian Seed Growers' Association should be more commonly used but, like stock, the seed must earry its pedigree on its back. Try some.

The farmer is the back bone of Canada but he has not had a chance as he should have had. In the first place he has not been educated to it as he should be. Why? Beeause it has been said, "Anyone can farm." I want to tell you that anyone cannot farm and make a success of it.


Farm Buildings that tentify to the thrift of their owner
The two illuatrations on this page, showing the buildinge of Mr. Fellix Dument of our French Ganadian eltrpe that are found on the farme of the more Dront, Bt. elevated drivewanadian eltirene. Notioe the short post. low oftched root, and the
 Competition oondueted by the Quebee Government.

A few years ago I was working as a hired man in Oxford county. My boss was strong on Holsteins, and he had good ones too; not pure-breds but first-class grades. And he had a Jersey grade. The first week or two I wondered why a man so enthusiastio for black and whites would tolerate a fawn colored animal around the place. I was in the dark for some time, but one night the boss was absent and it fell to my lot to milk all of the cows. The cattle were arranged in two rows, I
milking one and my employer the other. Hence
(Continued on page 10)
milking one and my employer the other. Hence
(Continued on page 10) <br> \section*{Satisfied with B. zon Hog <br> \section*{Satisfied with B. zon Hog <br> Arthur Ohristie, Dundasis Co., Ont}

Mr. Maedonald made a mistake. Instead of describing a bacon hog in his article in a recent issue of Farm and Dairy, he described a ceriain type of hog that the breeders of Western Ontario sold to the farmers of Eastern Ontario by pubic actions some few years ago. A great nt.mber of farmers rushed to these sales and purchased stock at a big price while our own breeders sorid far better stuff for pork; consequently the bacon hog received a blow from which it has not yet recovered.
At the time I had my pens full of pure bred Yorkshires and have been breeding them ever since; also bacon type Berkshires. I have kept account of all feed consumed and by feeding alfalfa and roots have been ablo to make on an average the half of the selling price for my alfalfa, whey, milk, and also my work, not counting anything for manure.

## one sow instead op two

A sow of an improved bacon breed will raise twice as many pigs as will one of the thick fat type. Hence two bacon sows are equal to four of the other kind, which means a saving of the feed of two sows, which is of small item. In the second place 1 do not try make a bacon pig weigh 180 or 200 lbs at four and a half month one bull owned originally by a village blacksmith in an English village. There were namerous other cattle of the same breed in that aame section at the same time. But we never hear of them now. To the Jersey man Flying Fox blood always looks good, the Ayrahire breeder has his favorite
strains and practically all the great Holateins are strains and practically all the great Holsteins are contained in three or four families. And all these
families trace originally from just one sire. But I believe that the influence of one sire on one breed in one generation is as nothing to the influence that a good pure-bred sire will exercise in
a grade herd in juat one cross.
has sprung come new up with new ways. And with it hul come new appetites favoring different kinds of food than that which our fathers liked. Conse quently the old-fashioned fat hog has gone neref to return. And why sigh for him? I think evee Mr. Maodonald would rather have a nice lean feed of bacon or pork steak any time than a alice of white lard from a fat hog.

We seed with timothy rather as an insurance
than as a necessity of good and profitabis feel production.-J. H. Grisdale. gone with them. A new generation old by feeding expensive or concentrated feed The bacon hog has a ravenous appetite sind will consume more feed than he can assimilate whid means indigestion and perhaps loes. I keep my hogs growing by feeding cheap feed such as alfalfa or roots, skim milk and a little middlings until they are about four or five months old when they should have developed a good frame, also a strong constitution, and be in excell/nt shape for the finishing period.
As to marketing: It has been the oustom for most farmers to market their pigs in the full or just before Christmas when yiery one is eating fowl and lamb. If you cannot get yout pigs ready in time to get the top price better let them run on gras until fall and finish off after the usaul holiday supply has been worked of and priees have regained their formet level, which is usually about the first of March.

If the man to plabab success of pig raising we will have to raise the kind of hog the people want; not what we ourselves want. In the days when our country was ner and men lived principally on a meat diet, as do a number of Old Country farmers to-day, and when lumbering Was the prineipal industry, large
quantities of fat meat and grease were quantities
required.
To-day times have changed. The old men have gone, the old ways are gone, and the old method of living bus ?

## 

## by firing his

 slack season. This, howev the true solut wage paying $p$ is only a make in with presen happens to being the winter ing the winter and it is in th The ideal syste ranges his wor that there is $p$
on the farm th on the farm the fitably put in h
instead of six, might prevail
instead of six, of both employe

## Supplen

## Gredus! dd Farm Wages

## I. K. Shaw, Welland Co., Ont

As long as we farmers persist in doing the most of our work in the summer months and having little or nothing to keep the hired man busy at in the winter, it strikes me that we should have some better system of paying the ix sn than on the flat rate basis of so much a month the year round. Under the flat rate system it is possible for the employer to use his man very meanly and vice versa. Here is a case of which I read just recently in the Nor' West Farmer
A man was engaged to work for the year at 8300 , beginning his work in the spring. When fall came and work fell off, the farmer picked a quarrel with the man, discharged him and offered tim 825 a month for the work of the suramer season. That is, by making a year's engagement at a flat rate in the first place, this farmer was able to get cheap help through the summer, at the hired man's expense. It would be quite possible, too, for a man to start work in the fall, getting his 825 a month and when spring came pick a quarrel with his employer and leave. In this case the employer would suffer.
My plan is something like this: Graduate the wages according to the work done. For instance, if a man is only worth 810 a month in the winter, pay him \$10, and if in the harrest season help runs at 850 a month, pay the man 850 , but have the wages so arranged that the man will gain nothing by picking up and leaving in a busy season, and the farmer will gain nothing by fring his man in the slack season.
This, however, 直 not the true solution to the wage paying problem. It is only a makeehift to fit in with present conditions. happens to be married has areater hired man who ing the winter than during the summer months, and it is in the winter that his incomer months, and it is in the minter that his income is least.
The ideal ssstem is where the farmer so ar. ranges his work through winter dairying, ete., that there is profitable employment for the man on the farm the year round. If a man can profitably put in his time for 12 months in the year instead of six, as is now the case, summer wages might prevail the year round to the advantage of both emploger and employed.

## Supplementing Short Pastures E. Ruby, Oxford Co., Ont,

1 have just 75 acres of tillable land. My aim is to have the greatest possible amount of milk with the least possible number of cows. Hence, less work and just as much milk, less feed and more profit. In 1912 I milked six cows. I was lurky enough to have four feet of silage left in the bottom of a 38 by 12 feet silo that I divided in two parts, feeding half the silo first. This ensilage lasted from July 1st to September 1st. The siluge came out in good shape, except on the one side of the last, I f.', this ensilage with a little alfalin hay and some meal to heavy milkers. I followed with clover pasture till stabling time. $I \mathrm{~mm}$ not depending on such a favorable season again. I will provide for soiling crops, so that I don't need to be sorry when the drouth is at hand; better saffe than sorry. What is not needed as green feed ean be made into hay. This


A Crop that is a Source of Untold Wealth to the Dair Farmer



 time to get ready
would mean 2,400 pounds of milk from one cow, or 21,600 pounds from nine cows. At $\$ 1.00 \mathrm{a}$ cwt, the value of the increase is $\$ 216$.
To prove the worth of my statement I will give the returns from my six cows for last year. There are only two mature cows in my herd. My eash returns for cheese and butter amounted to $\$ 540$, or 890 a cow. In addition I had the skim milk, whey and milk and butter for family use.

## Veterinary Notes

Bloody milk is due to tiny hemorrhages or leakages of blood from the smaller blood vesels in the udder.
Mange in horses is much more difficult to treat than scab in sheep or common mange in cattele. Prevention of infection with the disense is safer and more satisfactory. There is no best all around treatment, even for lice on stook. The elass of stock, physical condition of the animals, and season of the year determine the kind of treatment most advisable.
Coughing does not necessarily mean tuberculosis in cattle. Cattle cough from many different causes, but a chronic cough in this class of stock always gives a reasonable suspicion of tuberculosis, where there is no other cause appar-
ent.
Tuberculosis in eattle canuot always be detected by their physical condition. A diseased animal may be very fat or very thin. Tubercolin is the only reliable means we have for deteeting tuber-
eulosis, except in rare cases.
good driving shape. This is a resalt of were in use of the split log drag.
The people of Chateauguay have just ins unfavorable natural conditions to contend with as the people of any other district. Their land is low and hard to drain. Likewise, it is heavy and sticky. But they keep their roads well rounded and well dragged and the result is most satisfactory. When the farmers of the Ontario districts that I have mentioned get the split $\log$ drag fever they will forget about expensive macadam roads and start to make good roads out of the material they have on hand.

## Points on Pear Culture <br> John Beemer, Brant Co., Ont.

In our 17 years of experience with pears we have had the best success with those of the Kiefer varieties, with Bartletts a good second. The Dempsey promises well. They ripen along with the Kieffer, are fine for dessert and a fairly good eanner. Extra care must be taken in spraying this variety for curculio and pear slug. The Dempsey does not blight as badly as the Bartlett.
Our Kiefers had a bad set back in February, 1904, when two-thirds of them were badly fros- $n$, causing rot at the heart. As they were heary bearers and the fruit was not then thinned every year I have now only 35 good bearing trees left out of the 125 set 17 years ago. I have derived a yearly income from my years for the last 12 years of over $\$ 200$ a year, or $\$ 2,500$ altogether, and this from a little over one acre of land.


## PUMPING



## Ideas on Rations <br> What do you think of the following ra

 tion for grade Holatefn and Bhorthorn
 four the. of oat chop three thes oilcake
and $a$ handful of entr) what ration and a handful of ente? Whai ration Wonal you recomment for a two monthe
old Holstein.Friesian tull oalf? At pre. sent he is getting 12 the of whole mipre day (T have no akim milko. as much olover hay as he will eat up elean and oat ohop
and turnips. Is it neossary to feed milh oxford Co or bran in summer?-W. P. B. The ration here
balanced and here suggested is well halanced and quite suitable for a cow giving 25 to 35 ths, of milk a day. The succulent portion of the ration, corn and roots, is in rather large quantity, and if the cows show signs of going off feed it is this portion of the ration and not the grain feeding that should be reduced. For cows giving over 35 lhs. of milk a day it would be well to reduce the ensilage ation and increase the grain ration. Whole mi'k, clover hay, oats and turnips should make an ideal combination of feeds for inducing thrifty growth in a two-months-old calf. The length of time that one can afford to continue the whole milk feeding. skim milk being lacking. depends a good deal on the value of the calf. If he is of good breeding and a fine in-
dividual it might be profitable to feed dividual it might be profitable to feed
whole milk for six months or more, whole milk for six months or more, but as a general rule it is not advisable to feed longer than three months. At this age start to make a gradual change in the grain ration. One and onc-half pounds of the following mixture would be suitable when weaning 200 lbs. oats; 100 lhs. brsn; 100 lbs .
corn; loo ths. oile ke meal. Inerease the amount gradually until the calf is getting two and one-half to three pounds daily at six months of age.
We would sugest that the calf will We would suggest that the calf will develop more rapidly if kept in a darkened stable during the hottest days and in fly weather
Short pastures should be supplemeed grain during July and August. For cows giving a moderate amount of milk, however, home grown soiling crops are cheaper and more satisfae tory than grain feeds. A mixture of one and one-half bushels of oats, half a bushel of peas and a peck of vetches to the acre, makes a good soiling crop for mid-summer feeding.

## Calf Raising Proposition

1 intend raising calves on warm separat-
or milk all summer, to sell about Decem. ber this year. They are from 10 days to two months old 1 feed Blatchtord's calt meal Can you sive me some partieulars
 Calves fed on warm
with the addition of separator milk, with the addition of a small amount
of meal. from now to the end of November, should quite easily dress 250 ths. The most careful feeding is necessary, however, to prevent the calves from sconring and to keep them in good thrifty condition throughout the summer. Perhaps the most important consideration is the keeping of them under good hygienic conditions. They should be kept in a large, cool, clean box during the day time and al'owed to run in a dry field at night so that they will always be $T$ ving in air at a moderate temperature and neter exposed to the strong rays of the sun.
As a meal to feed along with the skim milk, or, better still, to give
\% them dry in rat "ough, after the has been fed, I would suggest they will eat up clean of the follo
mixture: Bran, 100 4 bs . corn 200 lbs. ; crushed oats. 100 lbs.; meal, 100 ths, ; orushed barley
ths. This mixture should be fe at the rate of half a pound a begin with, gradually increasing
the calves are receiving as mu three pounds a day in Septembe Octover and possibly four of
pounds a day in late November In addition to the meal, the should, of course, get a small an of dry clover hay, or, better alfalfa, and, during the summer. grass or green forage; but all feeds should be given in moder since an excess of any one of th the skim milk, the meal mixtur hay or the green forage-is lik have injurious effects. Great and, by watehing the calves el to see that the digestive organs good shape day by day
In addition to the skim milk, should have an abundance of clean water, to which they should access at will. The placing of a of rook salt in the pasture and anot Further, the adding of say mat 25 whole corn and as much whole to the sbove mentioned grain ture, say about the month of
would be of some benefit.-J.

## The History of Good Roads E. F. Ayers, Highway Engineer.

 When some progressive antediluria shocked his contemporaries be bring ing his game to camp on a horse, to good roads movement was inaugmr ed. Had he shown proper respe precedent he would have shoulden the load, although custom sanction the use of rude boats in case he wafertunate enough to be near a si rean
Other members of the tribe smy appreciated the many advantages of the new method, and well-difing trails were opened through the wild orness. These' wre, laid out by the animals themselves, the only ance rendered by their driver
the occasional removal of which fell across the path.
No further progress
antil the advent of whenled mach These required a wider path, trail began remotely to resemble road. No attention was paid th proper location, grades or draimage but even the sight amount required was bitterly opposed awners of the pack teams caw that their business ruined if the newer tramspontatio gained a foothold.
They caimed that the wide raid ere unnecessary; that the new cotraption was simply a passing fac,
suitable for a rich man's suitable for a rich man's toy,
possible as a practical vehict possible as a practical vehich
the taxes would ruin the coun less the wagon men were pay the entire cost of the ment ; in short, that the road whin had sufficed for their fathers shoule be good enough for them.
These same arguments rived on the adrent of thon and the automobile, the teamthe meantime having forgott. aarly trials and joined the aries. The highways of An mained as horrible examp 1885. when the modera gor movement rode in on a bicyel

Broken glass lying around langerous, but 1 fnil to si window glass is. Yet judg the amount of window glass tables the proprietors mill it danger
P. E. I.

## farm and vairy readers talk about hired help

"W ${ }^{\text {ELL, }}$ (lan to pught just as well in pasture and do the work mywar:" The speaker had just turned nury from the inmigration office section native born Canadians not be found for farm help for money and to find that even grants could not be had was dis-
ing indeed sing indeed.
(ficient as is the immigrant, due to his inexperience, he would bo most weasin. A few, farmers there are who aro getting on better than most of
their neighbors in the solution of the farm help problem. Recently Farm pnd Dairy wrote to some of these men for an explanation of their succoss in
ecuring help. All whose replies werrong help. All whose replies are farmers who speak from experience and have no high flown theories to ex-
tre money consideration
believe that in all business, money counts as a strong point," ant wase Mason, Norfolk pay good wages to secure comparetent help, In order to make the highly peenssary to keep milk records, know the cost of proiuction of milk and hen to keep only those cows that will nate he has to pay pay the wages that he has to pay.

One reason that explains why so securing help is that they never made practice of keeping their men the year round. I have found that winor dairying will balance up the work, profitable employment for the man, and give the boss an opportuna little recrestion. I believe prople should plan to enjoy their ocof our dairy farmers are not enjoying ach year of their lives as they should, In concluding, Mr, Ms
When we have Mr. Mason adds o consider the Golden Rule. If we good business with intelligen iborers we will keep the same men good many years. Many successfarms are now doing this Winter bairyine boes it
The best way to solve the help problem in my opinion is to keep a most of them freshen in the fall and most of them freshen in the fall and carly winter," Writes Jus, Q. Currie,
of Oxford Co., Ont. "If Chey have good comfortab'e stables, are well fed and groomed, the cows will give one-
third more wilk in the year than if fresh in the spring. In addition we then have more time to attend them, can oontrol a more even temperature, there are no flies to torment them and besides, we have the heavy flow of thik when the price is high. When give almost as much milk for asture thill months as a fresh cow and when tew in the fall, filling silos, threshing etc., we who follow this plan doshing, have much milking to do. There is a out of good manure that can be drawn out to the fields and spread in the winter, thus saving a lot of valuable time in the spring.
round, which work for a man the year round, which I think is the most married man to hire. If we had good confortable house, a garden, pay onj hours, and not work him too the work. If he is a good man he thould then be as contented as he man working in as shop or factory," PARME UNDER WOREED
Ont H. C. Hamill, of York Co. averuge farmer has to face is the help
problem. Few farms are worked as vould like. Bome farmers has owners past gone into farmers have in the while others are making slaves of themselves and families trying to get along without hired help. Dairying has not shown that expansion that many reasonably have been expected, extensively a hesitating to take up may require more labor. And yet perficulty in regard finds the least difthe up-to-date dairsman question is at the question in "Can we reasonably ask a man to work for eight or nine months and send hil off when his time is up to face a period of idleness or very little the spring to hire for another sum mer term? Many of those men drift amployment and cities, find othe the farment and are usually lost to can only ferever. This labor question gage our help for the year and give a man steady employment; then if each is suited with the other the help is right on the farm for re-engagement ablo. In winter dairying comfortthe help and one good cow will given enough money to pay the extra wage and board.
Another question: Are you my fellow farmer, giving the time you shotid to reading the agrienltural papers and studying how the problems you meet have been met and overcoms think you have not time then engage your help by the year and have sufficient help to enable you to take time to read and think. It will pay you make dours, broaden your outlook make you a better farmer and a bet ter citizen.
Here is the way in which J. W Clark, who makes an anuual income the subject: $\$ 4,000$ from 25 acres handles EMPLOY MARRIED MEN
Single men are becoming searcer each year. What few there are do not care to be padded down to milking abor. Tuch prefer other kinds of thbor. To my mind the solution of This problem is to employ married men the of course wonld necessitate that enienty farmer have a house concomently handy for his men and give This class of labor is more- round remain permanently. They cannot thift so easily as others. On many of these dairy farms a suitable house atrongly advise available. I would strongly advise a man who is going to romain long in the business and is handicapped for labor to build one, A comfortable cottage for a small fam. y, I have found, can be built at a dif between $\$ 100$ and $\$ 500$.

## If one hundred farmers wh.

 quire labor would club together and by putting up from $\$ 5$ to $\$ 10$ each Country they conld man to the Old Laborers for the work experienced have them the work required and thonsands brought over. There are Old Country the class of men in the Old Country who would be glad of the opportunity if a comfortable home was provided for them. The average of the unmarried immigrants that come to this country do not remain long at a place. They seem to drift to the large cities or the west in a very short time. A married man would not be so apt to do this and for that reason. the dairy farmer who gets married help would have more permanent labor."We have gotten good resclis from seeding alfalfa very early in the Zaving on winter wheat.-Prof. C. A.


This Engine Runs on Coal Oil
Every farmer an affond an Elisis Coal On Bnglne.
They give far more power from ooal oil than other enginee do from gaecita. They are asfe, as well an an
The atrongeet and aimpleet farm englae maca; only ne gan ran parte, nothing to get ont of repaif. Any. hed onstomers use thicee enginen to grind faed, if sillos, dowens of pamp, threeh, ran eream other fobas. Cheeper thas horsans, and hired men. Fill no the tanke and ifart if running, ar hired stop it
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THE FROsT a wood Sole, Silling Agonts



## What Bow Park Farm Say

Bow Park Farm say in a letter to us: "We estimate that every 100 obtained when using other feeding stuffs alone," which could not be

## HARAB Digestive Tankage

is a remarkable flesh producer. Brings hogs to maturity rapidly. Makes about it, including tables for feeding.
 To Fight Cut Worras
Probably the first and most important consideration with regard to cut worms in the garden is that of observing when they start operations. In many instances great havoe is wrought to the vegetables before the gardener realizes what is going on. They start their depredatious work very slowly. Probably the first indication of their
presence will be marked by the finding presence will be marked by the finding
of a aingle plant iying wilted on the ground. When a plant is thus found, get busy and treat the other plants in the garden. Poisoned bait made of 50 lbs, bran to one pound of Paris Green and mixed with three pounds syrup and water-enough to make it crum-
ble nicely in the hand, when spread on the surface of the soil around the plants in the early evening-wil be fairly effective.
The old-time remedy of tin collars or paper collars around tomatoes and other plants, when not too numerous, is excellent. Care must be takea, however, not to enclose the cut worm in the soil inside the collar.


When a plot or A Successful Melon, Cyltare Under Difficulties flower bed or a limited their elimate is too cold from this melons, bolleving thai planted or a limited in the illustration one may see how Mr Ehat tender fruit protected, supposing, of umberland Co., Ont, geth around the dificuity and protert purse, supposing, of
in the space, done enn afford place boards temporarily around the area, putting the edge the boards about two and one-half three inches below the surface of ground, and letting them project inches or more, so that the valu plants to be protected are enelosed he tight board. Put poisoned at intervals on the outside of this losure close to the outside of this closure close to the boards or, bet, mear the boards with a narrow buil
of some sticky substance, of some sticky substance, such as
tanklefoot.
Orchard and Garden Notes
Were the fruit trees sprayed this spring? If not, expect woriny and diseased fruit.
The flowering currant, Juncberry and flowering almond are among thin shrubs that flower early.

The Harris Abattoir Co., Limited Toronto

The Harris Abatoir Co., Limited Toronto

Ferns may still be transplanted from the woods to a sheltered spot about the house or yard.
Morning glories, wild cucumber, and hyacinth bean are good vines to cover up unsightly fences or rock piles.
It
It is not too late to spade up that weedy place on the lawn, add well rotted manure and sow good bluograss seed.
Make a liberí, Mplanting of Golden Bantam sweet corn. Stowell's Evergreen may be planted at the same time for late corn.
Keep the cultivator going in the
garden. It is easier to get rid of the garden. It is easier to get rid of the Weeds when they are small than when they are well established.
Do not set out tomatoes, cannas, coleus, or other tender plants until
the end of May, as there is danger of frost or cold weather until that time.
Dahlias and gladiolus may still be planted. In fact, it is an excellent plan to plant gladioli at intervals in order to get a succession of bloom the whole season.
The main crop of potatoes should go into the ground now. Treat all seed with formalin or corrosive sublimate, for scab, and plant on land that has not been cropped with potatocs to cently.
Keep the lawn mowed this month if a close, fine sward is wanted. Nitrate of soda is a good fertilizer to apply the rate of from 150 to 200 pounds per acre. Put on just before watering or during a rain. It should be applied two or three times during the sum mer.
Rhubarb and asparagus are two perennial vegetables that are early ot the market and are easy to raise Rhubarb should be set in autumis. Strong one-year-old plants of asparagus may be set as late as the middle of June. Prepare the land well and set at least six inches deep, covering but two inches deep at first, gradually filling the trench as the plants grow.

[^0]M ANY diseasen of hogs are directly due to of the barn-yard. This manner of feeding is also wasteful, because the mainer of feeding is also ground, in such a condition that not even a hog will eat it. Concrete feeding-floors, with concrete swilltroughs are clean, sanitary. They keep hoge in
better health and aave feed.

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strvies is fres ef eherts.


May 29,

## Laying

P. E. Anple, $B$ The criterion
method of or method of or
number of tre growth thint th influence the ting, such as q and so forth. the actual lay for tree setting
Trowe will gri in straight ros are paying mor thetic nowaday of us is odious
do it right anc is not monotor orchard in a $p$ straight in all of satisfaction joyable.
There are sev planting,-squa linte and so for cided on the the next questi ing to get the There is the o using planting system which system which
extent the sta extent the sto
the use of the p We use a lon the wire the di wish the trees $t$ rows of stakes 1,000 feet apart
desirod. We str the stakes and knot in the wir ur system.
Beforé startin ard, we must ha
by. The road base in any cas on the adjacent one of the side the distance fro first row of tree distance. ends of the field tightly between with cuiting the accurate. At a fence we put in then follow up wire the same
wish to have the wish to have the
straight edge fo than a tape line to stretch. We straight edge 80 it to bend over in ments.
Let us suppose planting is of 20 long. This is th wire that we can

We set a stak side of the orcha the field. We at stake, measure $t$ the first two stal and describe a pa corner of the fiel Another circle is second stake as a
length of 1000 length of 1,000 case may be anc field Stakes are required intervals line parallel to th Setting the trees is then just a oas wire between stal mark at the stalt and setting the $t$ the marks on the In setting the in. pairs. Both di man holds the
earth in around earth in around
fingers, while the
We have tried wire and black fe them to be of no as they streteh too

FARM AND DAIRY
Laying Out an Urchard
P. E. Angle, B.S.A., Norfolk Oo., Ont. method of ovchard planting is any number of trees that grow and the growth that they make. Many factora growth that they make. Many factors
influence the sucoess of orohard satting, such as quality of stock, pruning ting, such as quality of stock, pruning
and so forth. I will deal only with and so forth. I will deal only with for tree setting.
Trues will grow as well in crooked as in straight rows, but all orehardists are paying more attention to the acts thetie nowadays. Hard work to many of us is odious at best, but when we do it right and take a pride in it, it is not monotonous, laying out an straight in all directions is a source of satisfaction that makes woric enjoyable.

There are several systems of orchard planting,-square, sexagonal, alteraate and so forth. After we have decided on the system chat we want, the next question is, how are we going to get the trees in uniformly, There is the old and exact way of using planting boards, but this neocssitates staking. I will describe my aystem which efiminates to a large extent the staking and altogether the use of the planting board.
We use a long wire with marks on the wire the distance apart that we wish the trees to be. We work two rows of stakes parailel to each other 1,000 feet apart, or as much less as
desired. We stretch the wire betw desired. We stretch the wire between the stakes and set the trees beside a knot in the wire. This is, in brief, our system.
Before starting to stake the orchard, we must have a base line to go by. The road line should form the base in any case and the line fence one of the side lines. We measure the distance from the road to the first row of trees; 30 feet is a good distance. We plant stakes at both ends of the field and stretch a wire tightly between them. This does away with oliting the stakes and is more accurate. At a poinin 20 feet from the fence we put in our first stake and then follow up with others along the wire the same distance apart as we wish to have the trees. We prefer a straight edge for measuring rather than a fape line, as the tape is apt straight edge so that we will not have to bend over in making the measurements.
Let us suppose that the fteld we are planting is of 20 acres and 1,000 feet long. This is the greatest length of wire that we can use satisfactorily.

Ready to plant
side of the stake 20 feet from the the field. We att near the back of stake, measure the the wire to this the first two stakes, set on the wire and describe a part of a circle in the corver of the field not yet staked off. Another circle is described with the second stake as a centre and with a case may be and feet or less as the case may be and where the circles cross gives us the fourth oorner of the field. Stakes are then driven at the required intervals along this seoond line parallel to the first row of stones. Setting the trees absolutely aceurate is then just a ease of stretching our wire between stakes with the first and setting stake on the base line the marks on the wire. In setting the wire.
in.pairs. Both tigees the men work man hoth dig the hole, then one man holds the tree and works the earth in around the roots with his fingers, while the other shovels it in. We have tried galvanized fence wire and black fence wire, but find them to be of no use for this purpose is they stretch too much. We now use
ing six wires around one made by winding six wires around one another, and For marking perfectly satiafactory. lett a lump of solder harden on the wire. This method of marking we find more satisfactory than with louse Wire or tape, and if ve wish to re
move the solder it is eusily melted.

\section*{

##  <br> POLLTRY YARD <br> 

## Poultry Parasites

Of the different parasites affectin poultry red mite is the most objectionable of all. It is a night marauder, and owing to its habit of at tacking the bird, by blood-sucking, af ter dark and avoiding the light of day thus escapes the observation of day but the keenest of men. Permitting no hiding-place for the mite and oeca sional spraying of the interior of the house are the best means of fighting the pest. Again, do not allow the perches to come in contact with the walls. When a house becomes infested it is impossible to say when the mites will be effectively controlled. I have found the surest way cleaning a badly infested house was to


## 2.) How many are rotten ?

clear out the perch system and fix the perches on inch gas-piping driven into the ground, keeping the pipes well sreased for some time. Perches are sometimes suspended away from the falls, but so close to them that the feathers of the birds touch the walls. This is fighing the mite on the one hand and encouraging it on the other. combating body lice
Body-lice are another form of parasite which bring about a debilitated condition of the bird unless kept in check. The dust bath, placed preferbly in the open, under a shrub or oush, is the best preventive. Immediately a bird's beak is seen to be busy among its feathers the presence of If body-lice are very prevalent in a flock, and the birds are at all confined, all the conditions are present for pulling. In 99 oases out of a 100 feather-pulling has been due to irrita tion caused by heavy infestation by lice.
Another distinet form of louse responsible for weakened stock and deereased returns is the variety which iofests the head. This is much larger than the ordinary body-louse, which, by the way, is mostly found around the vent. I have received several inquiries lately in regard to the cause of birds presenting an anmemic appearance. In each case the cause was found to be bead-lice. A close ex amination of the head showed the lice-about half the size of a sheep-tiok-with their heads buried deep in the flesh and gorged with blood. It is a singular thing that on making inquiries it was found that in each case the birds were being boused under the continuous house system. With this trouble individual treatment is negessary, the light application to the head of an ointment composed of sulphur and lard being generally effeotive.

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## What One Sire Will Do

(Continued from page 4)
I had never seen the Jersey milked. And I got a surprise. She was the best milker in the stable, not only the easiest to milk, but she gave the most and richest milk.
As I became better acquainted in the section I began to find that there were a goodly number of Jerseys scat-
tered throughout the Holstein herds of tered throughout the Holstein herds of
the community. In fact nearly every grade herd had at least one, and in almost every case the farmers declared that their Jerseys were the best cows they had. And every one of these Jerseys were sired by the same pure-
bred Jersey bull. This bull had been bred Jersey bull. This bull had been brought into the community as a
youngster, used a then slaughtered. He was hardly and of the way befere. He was hardly out not mature an ordinary crop but did of the way before his daughters began Straw was plentiful everywhere. The


Car loads of pure bred oows are shipped from this district to the Weet and the United States at remunerative prices. The clover seed crop is a good. This year, but timothy is very good. Thousands of car loads of hay are awaiting buyers in this province and I am glad that the price will be now enough to induce farmers to feed it to stock, instead of sending their farm fertility to the United States or England. This last named country will soon cease to import hay on account of the introduotion of auto trueks, which are rapidly becoming the only wehicles in use for heavy trafthe only vehicles in use for hesvy traf-
fio in the large eities, such as Liverpool and London.

OROPS NOT TOO GOOD


Ideas for that Now Barn that You are going to build
A few yeare aro the dairy anthoritiee at the Wisconsin state Oollege pot their
Goede together and planned what thay conidered an idoal barn for the daliry farm
We We eive herewith the floor plan and the front and roar elovaliond of thils Wimoon. win model. The general features of the plan oan be adapted to a barn of any aike.
to come in. And immediately people autumn was very wet and crops had
saw the mistake they had made. They to stand saw the mistake they had made. They to stand weeks of rain, so that the had made beef of the greatest sire of quality of grain and straw was much the community. Such was the in- rduced. Corn was a poor crop fluence of one sire on ordinary grade throughout the province, half-filled cows. I guarantee that Pontiac Korn
dyke didn't make dyke didn't make greater impre ment, in stock sired by him, in grade cattle.
A pure-bred sire in a grade herd is like a crop of wheat on virgin soil. It has a better chance to do great things;
and it does. I could give other instances of the prepotency of the purebred bull in grade herds. A pure-bred sire I regard as a perfectly sure in-
vestment.

## Chatty Letter from Quebec <br> Aug. Faford, L'Islet Go., Que.

It was my good fortune to travel through the entire province of Oue bee last winter, I have met hundreds of Farm and Dairy readers and can say that they are up-to-date farmers and trying to learn more every day. In the counties of Huntingdon and Chateanguay several farmers were shipping as much as 1,000 and 1,200 lhs. of milk to Montreal every morning. Think of the monthly returns; the price was 81.90 a ewt. It would be interesting to Farm and Dairy readers to see more contributions from these up-to-date farmers. Farm and
Dairy would, I am sure, be glad to Dairy would
print them.
being the rule.
a good roads movement is spreadthroughout the provinee and milof dollars are spent every sumfut and more will be spent in the
future. The county of Laval alone will spend $\$ 25,000$ for macadam. The Quebeo government charges only two per cent. on this amount and this interest will be paid for 41 years only. After that, the munieipality has not a cent to pay; the government pays the total amount. Muoh eredit is due Hon. J. E. Caron, Minister of Agrioultare and Highways (and a farmer himself) for this road law. More than five millions, of the $\$ 10,000,000$ voted, was taken by the municipalities for roads last summer. Think of the reault: More than 100 macadam outfit machines will work next summer in the counties of Quebec. We
may well be proud of our good old may well be proud of our good old province, but we must not forget to keep puahing ahead. I know this Dominion well and I ean say that
some countiee of the province of Quebee are not equalled in Canada. There are great possibilities and the right kind of farmer will win the palm. Farmers, send your sons to an Agricultural College and your daughters to Domestio Science Sohools and suesess will be theirs.

## Methods of Management on

 Quebec Farm(Continued from page 3)
his remodelled farm with every venience
so forth.

Neatness and orderliness acteristic of the Logan farm. E field is laid out by the tape m field is laid out by the tape m
ure. The slouchy and undesir barb wire fences that at one tim vided the farm, have found their ing place in the bottom of the $C$ eauguay River, and the more atir tive woven wire has taken its place The farm lane is rounded off as neat ly as a public highway, and of
buildings it may be there is a place for everything everything is kept in its place.
the farm butldings
Mr. Logan's main barn is 110 41 feet, without a basement, th stables being located between two drives. The calf pens are to on side of a drive floor. In an L. 60 by 30 feet, is the horse stable and drive shed. In the cow stable, where there is accommodation for 36 milch c is accommodation for 36 milch
the cattle face out. The floors the cattle face out. The floors are of
cement. The partitions are between every other cow. Runining water and lividual water bowls are a feature ot the stable.
Paint has been used lavishly Sunnyside Farm; every outbuilding on the farm is painted white with green trimmings. The interior green trimmings. The interio
the stables, too, are painted. the stables, too, are painted. partitions between the cattle walls are painted green, and the t white. We asked Mr. Logan were not somewhat expensive to kee his buildings so well painbed, even it did make them very attractive.
"Not particularly," he answere "In the first place we use cold water paint, which, outside of white wash, is the cheapest of paints, and at the same time is durable. It cost me just $\$ 100$ to paint all of the buildings both inside and out, That included the labor of two men for eight and one-half days. ${ }^{\text {It }}$ does not, however, include their boadd.'
There are many other features of the Logan Farm that we might mestion if space permitted. The features that might most profitably be adapted to every farm in this country are the regular short rotation and the keep reguiar short rotation and
Mr. Logan is a believer
ue of farms' competitions. been entering his farm in compet tions for the last 10 years, and testifies that he has always been amply reimbursed for his trouble in infor mation that he has gained. Mr Logan is also a noted plowman, haw ing won 11 first prizes in plowina matches, there being 21 competitors in the last competition in which took part.
You never hear Mr. Logan apolo gize for being a farmer. Oh nol He is proud of his occupation. And he might well be proud of the suc cess that he has made of it-FFE.E.

## - Winter Fair Activity

A deputation representing the T onto Winter Fair Association consisting of R. J. Fleming, Mayor Hocken, and Controller Foster, of Toranto, recently waited on the Ministi Agriculture at Ottawa, to as support of the Federal Cover towards the establishment of a Na . ional Live Stock Dairying and Poul. try Fair in Toronto.
Hon. Martin Burell gave the depu: tation a sympathetic hearing and promised to bring the question governmental cooperation wit association before his colleagy now looks as if the first wint in Toronto will be held in 1915 not 1914, as was at first planned

THCK, SWOLEEN GLANDS



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Contains abundance of Protein. Without protein in the feed your cows could produce no milk. All feeds contain some, but Ceremol carries so large a per-centage that it
towers above all others as a

## Milk

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and fuarantee. Ang LOHDON CONCRETE MACHINERY CO., Dept. B LONDON, ONT.
$\qquad$
FOR SLLE AND WANT ADYERTISING Tro cems a wone, cash wil orik





 Wate Mon youl

## WHY WE STAY WITH THE BACON HOG

$\mathrm{I}^{\times}$[ Dairy May lst issue of Farm and Macdonald seems to have very little by J. A, Macdonald on the penned use. It is a wonder if some of these dustry of Canada, which contains will not have a bone to piek with Mr, some statements not in harmony with Maedonald, when he says that "They Mr. Muedonald haser of hog-raisers. Worked in cooperation with the packing many articles to the press, become ers agninst the direet interest of the known to a large number of readers, ing testa,") He thinks of theitions at and his writings are generally of a those places are ideal for feeding high order; yet be must expect to hogs. Of that I am not very sure. As
meet with many who meet with many who do not agree over two years of my life were spenit with all his statements ; so, no doubt at one of those institutions, and serhe will take a little criticism of the eral others were visited, it seeme to article kindly. He has produced figures showing a me that, from the standpoint of the great decline in our export bacon around many a farmer's premises trade, and attributes the blame to a There is a story todd of achens. lack of active cooperation with the mistress who was teaching the little
farmers, If Mr. Macdonald holds that parkex. ones a lesson about the hog. She port trade from year to year ade the internal anatomy of all animals, portely represents the volume of the the internal anatomy of the pige is bacon industry, his arguments are cept like that of a human being, exbacon industry, bis arguments are cept that of a man. If internal things
based on a misconception. If we exa mine our export trade figures we exa- are so much alike, it is probable that mine our export trade figures in the they have similar wants. Man lifees
dairy industry, we will find dairy industry, we will find exactly the same thing-a marked decline; in


A Popular Croas
happiness as well as comfort. It seems to me that at these institutions hogs the have apparent comfort, but lack the happiness. At these stations, large numbers of hogs are kept in the same building, crowds of people are contin ually passing and disturbing them sometimes the attendant has not proper interest in his work, and they very often have no pesture and they cise in. It is therefore all the exersurprising that in these experiments, the hogs of the bacon type, which are naturally more active than the hogs of the heavy fat breeds, so often made I better showing than did the latter. I believe these experiments are perfectly reliable and that farmers should have no hesitancy in accepting them.
canadian hogs ideal.
Canada is well adapted to hog-raig ing, We can produce, and do produce, ideal bacon hogs. The taste of the consuming public demands the comparatively leaner meat, as those who dress their own hogs for market
The bow shown herewith is a purebred Berkahire. The youngsters are half Berk-
shire and half Tamworth. Mr. R. ar. Inshire and half Tamworth. Mr. R. M. In-
man, Elein Co, Ont., regards this oroes
as a moet deairable one to proy hogn of crood sing and easy fattening
fact we have now commenced to im prom quite large quantities of butter from New Zealand.

## But does dholtne, However

producing less? prove that we are producing less? Not so. According for 1911 our exports of Commiasion for year ending March 31, 1911, were about eight million dollars less than for the year 1903, but the total production for the same years shows an increase of $\$ 17,000,000$. There is ever an increasing quantity of our proand, owing to consumers increasing much more rapidly than producers. Still, it is a regrettable faot that some years far less hogs are produced than should be; and the greatest grievance that bacon producers have, is that the packers insist on paying a flat rate This fact has been proven at Ex- to be breeding atoek, one litter a periment Stations, for whioh Mr. year is enough. atook, one litter a
 more to kill the bacon hog industry han anything els.
Coupled with this fact is the errone eous impression, of which also Mr. Maodonald is guilty, that the thick fat hog is more economically fed than the bacon hog. It is impossible for me to say much about the hog of 20 years ago, as that was before the hog had much interest for me, but its feed ing qualities could not have differed greatly from the present day Berkshire or Chester White, I have fed hogs of different breeds and crosses, such as pure bred Berkshires, crosses between the Berkshire and Yorkshire, grade Yorkshire, grade Chester White, grade Yorkshire, grade Chester White, and pure bred Yorkshires, and can
any that so far as my obsarvation went I am quite satisfied with the latter. They seem to feed and make pork just as economically as any of the others.
sTation oonditions not ideal
well know; therefore, would it not be

A sow may produce two litters a
folly to change? Acrous the line the
heavy fat hog prevails. Our packers now import some of this fat pork to supply the limited demand for it in tions with the but as our trade relato be much improved it is very likely that much of our prime, leaner bacon will find a market over there, as many of our beef cattle are doing now. Of course, if a eross is desired, perhaps would satisfy and Yorkshire cross would satisfy most people, but stay -
A Cheque For The Hired Man Editor, Farm and Dairy,-One reason why many farm laborers prefer city employment is that they have to or employer for mogeng" their farmborer gets his may meney. The city laor fortnight as the case may be and no questions are asked. The be and is worthy of his hire. We laborer have no more right to keep the hired man waiting for his money thared keep him waiting for hisey than to isn't that we haven't got meals. It but that we have ne gyot the money, regularly. The no system of paying going to , The man who knows he is contented his cheque every month is his employer man. He thinks more of Let mioyer and does more for him.
Let me say to my fellow farmers, open a chequing account with your feel to-day and make your hired help Coel satisfi

A Pure Wholesome Nutritions Meal
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tion of this contract that in writint advertisers you state: "I saw your adver cisement in Farm and Dairy."
Rogues shall now and
erpense of our subscribers, who are the friends, through the medium of these our umins; but we shall not attempt to adjust trifing disputes between subscribers and pay the debts of honest bankrupts.
FARM AND DAIRY PETERBORO, ONT.

## sUccessful canadians

"You have told us a lot abont what some Yankees have done with purebred stock," remarked a Farm and Dairy reader lately "Tell us some thing about successes nearer home and we will like it better."
Well, we don't have to go to the States for striking examples. It is only a few years since G. A. Brethen, of Peterboro Co., Ont., pocketed a big bunch of conservatism and invested three or four hundred dollars in a single animal. Mr. Brethen's fame and fortune started from that day. Today he has a nice little herd of Holsteins, among which is numbered the world's champion junior threeyearold. "I am getting more enthusiastic about purebred Holsteins every day," remarked Mr. Brethen to us recently, and well he may.

From hired mas to wealthy breeder," sums up the history of the
farming experience of R. R. Ness, honest the chances are that he will be Howick, Que. About 19 years ago ta.ed for four or five thousand dollars Mr. Ness started out without a farm, without even capital, but with abundance of faith in the money-making possibilities of pure-bred Ayrahire cattle. Before he was fairly on his feet he had gotten a hold of some good purebred animals, and to-day his herd is recognized as one of the best in America, if not in the world, and his wealth is counted. in many thousands of dollars.
An examination of the subseription lists of Farm and Dairy shows hundreds of men who are making good in the pure-bred line. We believe that what a man sets his heart on and direets all of his energies to obtain, be will get. If we are in dairying to stay we might as well decide right now that the first and the best paying improvement that we can make is to improve the dairy herd. Even if we don't startle the world with our success we may hope confidently for a better living and an easier living than would otherwise be

## THE INCOME TAX

President Wilson's proposal to tax all incomes of over four thousand dol. lars a year in lien of the revenue that will be lost in the proposed lowering of the protective tariff of the United States, is receiving much commendation on both sides of the line. Only the other day a Canadian farmer was heard to remark, "That's a dandy good idea. Its hard on the rich man, but its good for the poor man. Why can't our government take the also President Wilson's proposal also has been heartily commended in many of our leading newspapers. In fact, we have not yet heard a serious criticism of his propesal in Canada In case our own government should some day be tempted to follow President Wilson's lead, let us look into the pros and cons of income taxation. President Wilson is making an honest attempt to place the burden of taxation where it belongs. Under the present United States system, which is also the system in Canada, of collecting revenue by the protective
tariff, it is quite conceivable that poor man with a largo family might contribute more to the revenues of the country than a rich man with, no family. The income tax is a direct tax and is designated to be proportional according to the wealth of the individual. A man receiving less thani four thousand dollars a year will not be taxed at all and as his income increases so does the severity of the tax.
This looks right and just, but how This looks right and just, but how will it work P

The greatest weakness of the tax as we see it is the diffienlty that will be experienced in determining the taxable income. The man who is receiving four thous nd dollars a year in the majority of casee will be a salaried man. His income is easily determined and he will be taxed to the full extent of the law. The man who is receiving ten thoussind dollars a year is more likely to be in business
for himsolf and unless bo is ungen
a year, or may escape taxation altogether. As the income becomes greater and greater, so increases the difficulty of determining its extent, (the man himself may not know his income), until the man whose income runs into the millions a year will be able to conceal a large portion of it and thus escape his just share of taxation. We believe that income taxation is bound to press much more heavily on those receiving the minimum taxable salary than on the overrich. How, for instance, can an assessor determine a man's income who is becoming rich through bonuses of watered stock, through real estate deals or through speculation of any
kind. An income kind. An income tax is equivalent to putting a premium on liars.
not much more logical to tax the source of his income? Rochefeller's great income, for instance, comes from But why tax a man's income? Is it oil wells. He can conceal his income through adroit bookkeeping, but he can't conceal the oil wells, Carnegio is able to make an income running into millions because he controls the sourees of steel ore. Ore beds are too entensive to be concealed. Why not tax them? The city land holder who draws hundreds and thousands of dollars a jear in rent, might falsify his statement to the tax collector, but his land could not escape the eyes of the assessor. Why not tax it? So we
might go all the way down the might go all the way down the list.
Practically all of the great incomes are derived from land or the resources of the land. Is it not more logical to tax the sources of the income than the income iteelf?
The farmers' organizations of Canada have one and all advocated direct taxation of land values. We believe that our farmers are more far-sighted in their ideas on taxation that is President Wilson. We in Canada cannot do better than follow along the lines of land value taxation as sug. gested by our organized farmers. Farmers have nothing to fear from this system of taxation and everything to gnin as their land being low in value and their improvements exempt, their taxes would be light especially were customs taxes to be remored or
lowered.

Studonts at the Ontario College of Agriculture are beginning to do things in a cooperative way. For years

Praotioal in thave been talking Cooperation cooperation in buying and marketing. At the same time they have been purchasing their text books, note books and paper from the dealers in Guelph City and paying a big middleman's profit. A couple of years ago some of the boys suggested that they apply cooperative business principles to the purchase of their school supplies, and now the boys have organized themselves ivto a cooperative association, and purpose buying their own supplies and running their own store at the College. Who can tell how widespread may be the effeete of this co-

THIS false idea of independer stands in the way of succ
with thousands of our Ame with thousands of our Amer
can frm rs, Who, may we ask,
independent? Th. mas who st, ing on his own difnity, refuses cooperate with his neighbors
abjectly bows to the will abjectly bows to the w
caprice of the "market." caprice of the "market." or ithe
id ntity with that of his neigh and thus stand. master of his out and thus stand, master of his
markets? Individualism is, tin markets? Individualism
man who will merge his
etically, etically man in this age who thing but the does it not so much through his dividual capacity as through his operation with the asencies about him. With the afiencies in the cooperative relation than as a separate unit.
larmern, Itie manufacturens and
distributors, use their individuail
distributors, use their individuality
to co perate they will begin to ahead.-Hoard's Dairymanin to Ret
operative venture on the part of the O.A.C. students. If the studente store is a success, as we believe will be, will not the students sh leave the college be more enthusiastir cooperationists than when their knos. ledge of cooperative buying and sel ing was all gained through class rout lectures? Will they not be more ap to agitate for cooperative unions ever been before? The students hath mado a good move

## Earning a Farm <br> (Nebraska Farmer)

Whe department of agriculture is Washington finds that the averap money wages of farm labor United States increased aboul per cent during the past year about 7 per cent during the past years, In ten years the increase hin been 34 per cent, and since 1894 . per cent.
Now "working out" has always bet considered the best means for a yound man to secpre a start in farmins Surely this givat increase in mone Wages has made it easier for a your $\operatorname{man}$ to begin as a farm hand an
marn a piece of land than it was fa earn a piece of land than
his father. Let us see. is father. Let us see.
Between 1890 and 19 nerease in the price. 1910 the averas United States was 135 per cent in tween 1900 and 1910 the incre the country as a whole was 108 p cent, and in the state of Nubrash 231.8 per cent. Compare with the figures the advance in money w
for farm labor of 34 per cent in for farm labor of 34 per cent
years and 65 per cent since 189

In ten years in Nebraska th of land increased more than thre and one-half times as much age money wages for farm the United States increased teen years! Leaving entirely out account the inoreased cost of wearing apparel the farm hand must himself, it is evident that it to secure a farm by "work now than ever before in this wintrMany farmers that secured the lang years ago, either by homesteot ding it or purchasing at a low pries day has a harder proposition to secun a farm than they had. These figure are presented in behalf of the youm man and the farm hand.

When a buttermaker takes a pae tion in a creamery after another but termaker, he may not always fill things in the enndition that he like but even if he doesn't, it is licy for him to make much n it. because the old butterm ket wil always have some friends left after h is gone, and they are sure not to b your best friends if you say anything to hurt the reputation of the termaker.

## Why 0

R. Moc From my would like readers my
men of Onta What litt

Why Our Boys Have Left The Farm
P. R. Moore, Frontenac Co., Ont. From my own practical experience I would like to give Farm and Dairy readers my opinion of why the young men of Ontario have left the farm. What little education I received

## AD. TALK

## LXXXIII

Bert M. Moses, who was mentioned in this column last week, is considered one of the really big men in advertising. In fact, he has been president of the Association of American Advertisers.
In a short essay on "The Might of Advertising," he writes
1 was going to say that advertising is of as much consequence to everybody as religion, and maybe, after all, it is.

Religion prepares you for a happy hereafter, while advertising prepares you for a happy life here and now.

Advertising is as closely identifled with the home to-day as food and raiment themselves. It takes a thing that people ought to know about and makes it known. enables the housewife to select with care and forethought what the family is to eat and wear.
Without advertising, crackers, sugar, flour, tea, coffee, and other staples would still be scouped out of barrels along with myriads of microbes and numberless germs. Without advertising a dealer would give you what he pleased, but with advertising he gives you what you please.
Advertising has made the sale of inferior things difficult.
It has put germ-proof, dustproof, and disappointment-proof wrappers around the packages. It has found millions of jobs for the jobless and enabled the employer to choose the worthy from the unworthy, It finds the lost and restores the stolen.
When a new idea, process, or accomplishment to benefit mankind springs from the brain of the creators, advertising puts the name, the picture, the particulars, and the price before the world's eyes.

Then Mr. Moses goes on to tell how advertising enables men and women to dress economically and stylishly, how it fills the churches, the theatres, the lecture room; how it makes and unmakes politicians ; how it is the irresistible force that is lifting the world up and pushing it on and on.
He then points out how advertising has been wrested from the control of the swindler and the unscrupulous, and he concludes with: "All hail, then, to advertising, the mightiest of all the forcess of the universe!
We would not dispute Mr. Moses on any of these points save that it is just as well to make sure when buying anything that it is advertised in a paper like Farm and Dairy, which guarantees absoluteIy its advertisers to its readers and

Paper Parmers Swear By',
was in a little, old stone school house in this county in the latter part of the fifties. At that time we had no $\mathrm{On}_{\mathrm{n}}$ tario Geography, but used an Anican Geography published in New York with illustrated maps of every
state in the state in the American Union. Canada was represented by one small map and described as a cold, barren comtry noted for its fur bearing animals tered settlements along the (Great Lakes, was thinly inhabited by Eskimaux and Indians.
ing? Why the result of this teach. young men went to the In our best Thousands enlisted during the Civi War and many a good Canadian father and mothet were left to mourn the loss of a son who fell fighting the battle of a foreign country.
UNDEARABLE COYDing the
In the fall of 18051 made my first trip up the waters of the Salmon river were a fewtre scattered settlenty. There lakes and lumbering settlers along the oceupation. That fail there were seven lumber camps in the township with an average of 60 men in each. The wages paid were from $\$ 12$ to $\$ 13$ of Chicago west board, which consisted of Chicago western pork, bread, beans and Black Strap. Sixty men were huddled together in a shanty with a fire in the centre of the building; the The not fit for a dairyman's stable. The settlers and their families were merely slaves to the lumbermen. The tler could buy a foet ficense and no setlast stick of valuable timber until the No restrictions were timber was gone. cutting of the timber. They cut and cutting of the timber. They cut and
slashed by the square mile, the best logs being taken and the brush tops left to be burned. This resulted in disastrous fires and many a poor settler had to leave his shanty and flee with his wife and children to the bats to save theh lives.
why did they stay
Thousands of our best young men were educsted to lumbering when they could not find remunerative employ. to Michimere, Large numbers went through the State of wen travelling through the State of Michigan today we find that in some sections twothirds of the population are Cana-
dians or their descendonts dians or their descendants.
What has been done by the Ontario men to the millioy on the farm and clean up in Ontariop Hayen' of swamp lands of Ontario ever stood in young men their country's call and are they not deserving of any encouragement? Today railroads are being built by the thousands of miles. These railthey can be built by foreigners but they cannot be operated by foreigners. A large number of our young men have left the farms of Ontario to seekemployment with railway companies. The wages paid by the railway companies are much larger than the farmer can afford to pay and the price that the railway companies charge for carrying the products of the farm to the cities must be in accordance with the wages paid their employees. If the farmer employed labor at the price the railroads pay and put a price on his producte to equal the wage paid, half the people in the towns and cities would have to go back to the land and become producers instead of consumers.
When the farmers of Ontario can make up their minds to stamp politios beneath their feet and unite in one solid vote no matter to what party they may belong, then instead of the government giving $\$ 35,000,000$ to build a navy they will give that amount to improve a ad get under cultivation some of the waste lands of Ontario, from which the struggling
municipalities get no benefit.

# DE LAVAL 

No Excuse for any Cow Owner Being Without One

There is no reason why any cow owner who sells cream or makes butter should be without a cream separator and there is Any creameryman or experienced best separator.
 a good cream separator will give you a great deal more and a great deal better butter than you can make with any gravity setting system, and equally, of course, more and better cream, if you are selling

The DE LAVAL is acknowledged by creamerymen and the best posted dairymen the world over to be the "World's Standard" and the one and only separator that always accomplishes the best results possible and always gives satisfaction.
You cannot make the excuse that you
can't afford to buy a De Laval, because it will not only save its cost over any gravity setting in six months and any other separator in a year but is sold either for cash or on such liberal terms that it will actually pay for itself.

A little investigation will prove to you that the truth of the matter is that you really can't afford to make cream or butter
without the use of a DE LAVAL cream separator, The the use of a DE LAVAL cream separator.
The nearest De Laval local agent will be glad to demonstrate
DE LAVAL DAIRY SUPPLY CO., Limited montreal peterboro winnipeg vancouver

## WE WANT YOUR CREAM <br> Sweet or Sour

Drop La a card for Cana. We supply thosu and pay Exprese. Each can
weighed and tested on delivery and returna go baek every week. e require an unlimited quantity of Strictly New Laid Efsis BEST PRICES FOR BOTH CREAM AND EGGS THE BOWES COMPANY, Limited 74-76 Front Street E.

Toronto

## Natco Everlasting Silo

need no insurance-because it is permanent. It cannot
burn; will not blow over lasts a lifetime.
Built of Hollow Vitrified Clay Blocks

 Any Mason Can Build a Nate of your farm.

Once up - it will last a lifetime without needing repairs.


Calves Without Milk BLATCHFORD'S CALF MEAL




Highest Price for Cream

| L-We supply oane and pay expreen ohargee. |  |
| :---: | :---: |
| II.-Teet every ehtpment upon ar |  |
| III--Pay overy two meoke and enalh cheoks at par. |  |
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| It oonte you mothing whatever to give our syetem a trial. |  |
| Let ue eond you a oan and snable you to try a fow shipmente. |  |
| he Ber | Creamery Cor |
| Berlin | - Ont |

## CREAM WANTED

Welivers the higheat elty prioes for cream oftivered we wreet or sour at any exprase ly. mith en moonrste reoond of tach is ip ment. If Is yoars' experience eouste, ship your oren
invercened you should write ve Toronto Creamery Co., Ltd. тоRonto

## Wanted

Good friends of Farm and Dairy to telephone a Iriend or neighbour right now and ask him to become a subscriber to this your favourite farm paper

Thank you, friend! we appreciate your kindness. We also will re: ward you amply, Write us about Farm \& Dairy, Peterboro, Ont.

## Sweet Cream wanted

Write for particulars to S. PRICE \& SONS, Limited TORONTO, ONT.


## Better Butter And Better Prices

These are the two big reasons why you should use Windsor Dairy Salt.
If you make your living out of the butter you sell, then anything that will make the butter better will make more money for you.

## WINDSOR amsair

has proved itsquality and superiority in thousands of dairies and in hundreds of contests.

Successful creamery men have used and are still using Windsor Dairy Salt-because it gives them the best results always.

Are YOU using it?

## n1

## Cheesemakers

Make blg money in your apare time gotting ubscriptions for Farm and Da iry, Write our Ciroulation De
pa rtment now for full partioufara

| "Last |  |
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| Sth Annual Farn |  |
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| Number must get copy |  |
| ( Press days begin |  |
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| ¢ A few may be accom- |  |
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| June 2nd a.m. Monday, |  |
| Adv. Dept., Farm and Dairy |  |
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## We Give a Free Trial

of the Dome Oream Separator. Think of it. We eend thie high grade, eagp-turaing machioe on approwal reight propald, to teet as ofr expenes. We take all
 That you pay for othors, and you oas be the fudee of

Write to-day for Oiroular " $\mathrm{D}^{\prime \prime}$ whloh gelves fall parconlars of our trial offer, with Prioes, and eary torma

DOMO SEPARATOR CO. вRIGHTON, Ont.
st. hyacinthe, que


## What Grading Does

"How can I get my patrons to deliver good cream," has long been the distressed ery of many a buttermaker. swers, "Pav them for the good stuff"" In an address recently before the Iowa Buttermakers' Convention he told of what grading had done for cream quality at his own factory a Algoma. He said

For the year 1910, before we began cream grading, we received approx-
imately 80 per cent. of our butterfat in sour cream and only 20 per cent in sweet cream, while in 1912, we received 80.7 per cent. of our butterfat in sweeb cream and 18.3 per cent, in sour cream. When you compare 80.7 per cent, of butterfat sweet cream de-
livered in 1912 with 20 per livered in 1912 with 20 per cent, in
1010, you can readily see how rapidly our patrons have taken to the idea of caring for their cream and getting
rding to the quality of cream at the factory in preference old method of receiving the same price for their cream regardless quality.
Additional evidence of the value of grading was given in the same address y Mr. Anderson as follows
"The dairy authorities of the state f Maine claim that at one time 90 per cent. of the cream was sour when short time when a system of grading and paying according to quality was astablished by which sweet cream received a premium of 2 to 3 cents a pound of butterfat, 95 per cent, of the creamery and this condition still prevails. This is what we would expect, there must be a premium for quality and unless there is we can not expect it. It is only natural that
the farmers take the road of least resistance in handling and delivering their cream to the creamery when there is no premium for quality

## The Health of the Maker

 With a creamery of proper construction, and with due attention tosteam leaks, general cleanliness, eto., the buttermaker's business should be a healthy one. A creamery should be located on a well-drained spot, If a site cannot be secured with sufficient natural drainage, the place should be filled in and graded until there is sufficient and natural drainage. The front end of the creamery, which
usually consists of intake and office, usually consists of intake and office,
should face south, because it stands most in need of the disinfectant ac tion of sunlight. The rear end should face north, to escape as much of the sun's heat as possible.
The creamery should be furnished with an abundance of light by providing a sufficient number of windows. This is a matter of importance both from the sanitary point of view and from the fact that the buttermaker's work cannot be satisfactorily done where illumination is inadequate. The higher the ceiling the easier it is to maintain a reasonably dry atmosphere. Where so much steaming is done as in a creamery, nothing could be more undesirable than a low ceiling. Adequate ventilation can be secured only by mechanical means-i.e., by a fan of blower hitched to the engine. Experience has shown that no single thing will do so much toward keeping the creamery air dry and pueping the creamery air meohanical ventilator.

The office should be made an enti ly separate apartment, and not, as frequently the case, a testing roo and perhaps a wash room. It shou be of ample size, receive an abundan of sunlight, and have sufficient tilation. Moreover, it should be ma as attractive and comfortable as pc
sible, for the chances are that the termaker spends more hours in his fice, especially if he is a bookkeepi than by his fireside. Count up number of days you spetd in your worth while to malko it as healthful worth possible
Nothing is more unsanitary in creamery than a porous, half-rott bo tolerated, and these should be bull upon a thoroughly drained found tion. The approach to the intalie should be covered to avoid unneris sary exposure during inclement weat) Inadequate heating during weather virtually makes the creaniry room a death chamber. Warm, mo air is bad enough, but cold moist s ruinous to health, whether the fects are felt immediately
Steampipes laid close to the flor and passing completely around ceamery room, furnish the best heat er.-Butter, Cheese \& Egg Journal.

Where are the Leaks?
It requires eternal vigilance then some for an operator of a sma plant, where the division of labor not great, to watoh all the holes hrough which a little of the profit all of the profit of the business easily flow. How many of these hole there are no experienced buttermake need be told, but the fact remains tha in many cases a number of them re main undiscovered or are, throupl carelessness or overwork, ignored carelessness or overwork, ignored
There is opportunity for loss in the faulty conduet of every step of the process of buttermaking and in every department of the business from thi gathering of the raw materials to the shipment of the butter

## Probably the hest

these leaks, big or litule, whe deted these leaks, big or inttle, when they occur is a carefully kept record of the
creamery work and an adequate sys tem of bookkeeping. Unless such records are preserved there is no way of checking up the relation of raw materials paid for to finished product or keeping record of how far purchas. ed supplies, all the way from tub liners to fuel, have been made to reach. Such a record tends to cultivate a nose for investigation into the exact economic plane on which the creamery is operating. $-N$. Y. Produce Review.

## Training a Horse to Walk

## Jas. McKenzie, New Wesiminste

I have just waded through a long pamphlet on "The Training of Colts." Much apace was devoted to training in standing, trotting, pacing, cantering eto., but apparently it never occurre to the author that the walk is the most important paoe for the working horse; any my experience is tha walking is one of the weak points with the most of horses.
A horse that will walk off at a good sharp pace is of more value to me Whan the finest trotter in the province When training our colts for farm worl we endeavor from the first to get them into the habit of walking at a good rate. We follow no special me hods
We just keep them We just keep them going. A horse that will walk one-half as fast is another horse ahead of the plow, harrow or drill is worth just one-half as much again to its owner.

The combined cheese and lutter actory is an indication of the groming popularity of wintar dairy ng,-
J. G. Taggart, B. S. A., Frontense
Co., Ont,

## Chese

Makers are untions to th questions on jects for diser
to The Cheeec

he cheese cursed with gr Hodgson of the change at the I down to Montre dripping as if d Lawrence, you
of green boxes.' so great is th Oanada for a good, well-cured ed premium. In oured. Makers
suffering from quite as much a turers. To get
Mr , Hodgson in that we in Cana cheese in prefe stead of placing do the New ? Hodgron advocat
sections between sections between
that they could essary. This was by Mr. Hod

With a
Another use electricity, that industrial eleotr Holland, through periments, found an absolutely fres day aetually "age
other words, by other words, by
he would make th he would make th
all the consistency ance of a fine ol
stored away and stored away and two years, says
of Commeree.
He takes a jects it to an alter the end of twents stant alternating through this ohees
properties of properties

## cheese

This has natural terest in Holland ing is one of the said the electricia many other thing means of electricit
paratus that will paratus that will e
turer to so gradua trical action of thi choese any taste de sistency that may ply the wants of a

## Mottled Col

What in the reme anomecop Wi have
 The following means of combatioy
seated in a bulleti by the Cornell Expe "(1) By uniform the use of a $5-16$ wire knife, and a witeel knife.
"(2) Each partic bo kept separated while heating. "(3) St

## "(4) <br> Starter

ин
:Cheese Department Makers are invited to aend oontri,
butions to this department, to aak questions on matters relating to to
ehoose making and to guggeet choose making and to guggeet enb-
jects for diseusion. Addr


## Green Boxes

The cheese trade of Canada is cursed with green boxes," said Mr. Hodgson of the Montreal Produce Exchange at the last meeting of the E. O. D. A. If you makers could come
down to Montreal and see your cheese dripping as if dipped in the river St. Lawrence, you would see the menace of green boxee.
So great is the demand for lumber in Canada for all purposes that really good, well-cured lumber is at a decided premium. In fact, it cannot be seoured. Makers of cheese boxes are suffering from the lumber scareity quite as much as are other manufacquite as much as are other manufac-
turers. To get around this difficulty Mr. Hodgson in his address suggested that we in Canada use crates for our cheses in preference to boxes. Inatead of placing two cheese in a crate as do the Now Zealand shippers, Mr. Hodgson advocated a crate with two sections between the two cheese so that they could be eut in two if necessary. This was the method suggeeted by Mr. Hodgson to get around the green box evil.

## With a Grain of Salt

Auother use bas been found for electricity, that of aging cheese. An industrial electrician of Rotterdam, Holland, through a long series of experiments, found that he could take an absolutely fresh cheese and in one day actually "age" it two years. In other words, by means of electricity ho would make this fresh cheess have ail the consistency, taste and appearance of a fine checese that had been stored away and carefully aged for two years, says the New York Journal
of Commerce. Commerce.
He takes a fresh cheese and subjeots it to an alternating current. At the end of twenty-four hours of constant alternating eleotrical currents through this cheese it possesses all the properties of a fine two-year-old
This has naturally aroused great interest in Holland, where cheesemaking is one of the big industries. It is said the electrician claims he can do many other things with cheese by means of electricity, including an ap-
paratus that will enable the manufacparatus that will enable the manufacturer to so graduate and direet eleotrical action of this nature as to give chesse any taste desired and any consistency that may be needed to supoly the wants of a fastidious market. Chieago Daily Produce.

## Mottled Color in Cheese

What in the remedy for motlied oolor In ohecoio? We have not had any trouble nately, but did at ine time, and wish to
know how to givil againet ite reour. reno, Buhsoriber
The following
The following brief summary of means of combatiag mottles was preseated in a bulletin issued years ago by the Cornell Experimant station:
"(1) By uniform euting, heating and stirring. This is facilitated by the use of a $5-16$ inoh perpendicular wire knife, and a 5-8 inch horizontal steel knife,
"(2) Each particle of curd should kept separated from the others while heating.
(8) Starter should always be trained.

Starter should be added be| Curds. |
| :--- |

Curds from different vats
not be mixed.
Old curd should be placed in

## whey is reut 15 minutes before the

School Gardens on the Increase
The school garden idea is taking way a few years ago public interest has gradually increasd until this year Prof. McOready who is in oharge of the work has found it necessary to have several assistants appointed
whose duty it is to travel from and Whose duty it is to travel from school to school, assisting those who already terest teachers, trustees, payers in the trustees, and ratepayers in the work. One of these newly appointed inspectors, Mr. R. A. Finn, a Kent County boy, recently with his work Peterboro in connection Dairy offico and incidently gave us a few points on the progress that the school garien idea is making in the section of Eastern Ontario over which he travels.
"I have just been over Haliburton oounty," remarked Mr. Finn, "and they are certainly doing things there. This yoar eight schools have gardens and four of them will qualify for the
grant. Last year there was but one school in the count there was but one den, that at Horse Shoe Lake.

That school garden must have been a success to interest so many others," ve remarked.
Indeed it was," answered $\mathrm{Mr}_{\mathrm{r}}$ Finn. "The garden, under the direc tion of the teacher, Miss F. M. Pil key, did so well that it became known all over the Province, and its success
has been a big feature in getting other has been a big feature in getting other schools started this year.
sohool para plan
"This fall we are planning to hold a school fair at each school." continued Mr. Fian, "and then a Central Fair at Haliburton at which the pupils of all the schools will exhibit their produce. If possible we will arrange to have this fair at the time of the Teachers' Convention. We will then be able to show every teacher just what school gardening means in "We education of the rural ohild."
Will all the exhibits at this achool fair be grown in the school garden, next asked
"The students have plots both at the school and at their own home farms. We do not ask them to follow any particular method of management, the only difference between the pupils plot on the farm and his fath$\mathrm{er}^{\prime}$ 's fields will be in the quality of seeds sown. We are supplying the pupils with the very best of seed and the difference in yield between our seed and crops from ordinary seed, pupils but to the older men of the community."

> THR insprorong' work d what part do wol in
"And what part do you inspectors play $\mathrm{P}^{\text {S" }}$
So far we have been endeavoring o get more schools starled on the school garden idea," answered Mr . Finn. In describing his own work, Mr. Finn said: "For the most part we have been assisting those teachers who had already announced their intention of conducting a garden. It is now too late in the season to have new gardens started and from now on our time will be devoted to striotly Educational work. When I go to a sehool section, 1 first endeavor to interest the teacher and pupils, and then see as many of the ratepayers as possible. During the'summer holidays we propose travelling around from sohool to school inspeeting the pupils' plots both at the sohool and at home."

I find that when it is finally decided to go in for a school garden, both ancher and pupils go at the work enthusiastically. Our ultimate desire is to make the school gardens a regular Experimental Farm. As you know,
tion with the Experied on in connec Ontario, and throughental Union of dens we will have an opportunity of testing the adaptability of varieties to new varieties throngh the to introduce believe, too, that the ultimate effect of the schoot garden will be to make or the en a social centr

And how do the
the idea?", do the ratepayers take o the idea

## GENEHOUS RATEPAYER

pposed to all new things some are t. Mr. Wm. Thurston at Bobeare for was so impressed with the evident advantages of the school garden that he bave it a haif an acre of land and ondition that thool in his section, on ondition that they would use it for gardening purposes. On the other exwill we occasionally find a man who will not only not support the idea but would not give land for the purpose if he were paid for it."
Mr. Finn and the other inspectors have been at work only a short time, The education far are encouraging tors areational work the inspe in a great extension of schooly result ing work. The school fair iden gardenis already being work fair idea, which excellent success worked out with such excelleat success in Essex county, as
described in a recent issue of Farm and Dairy, will have far-reaching of fects in intereating the children in farm work and in better farming
methods.

I would suggest that there should be a referee at Montreal who undep stands cheese quality, who will grade cheese and trace a bad product to ite source. This will displease some who are making bad cheese but it will be -R. A. Pringle industry as a whole -R. A. Pringle, Royal Cheese Commisaion.
(20

## Boys! Boys!! Boys !!! <br> What say you to fulfilling your wishes and getting a pure

 bred pig of your very own. We have a pure bred pig for you. Here is your opportunity to get
## Si <br> YOUR CHOICE <br> Free from Farm and Dairy

## TAMWORTH, YORKSHIRE OR BERKSHIRE

You need only to see 9 of your father's friends and neighbors who are
not now taldng Farm and Dairy get them to take Fan year: send ua the names and eddroescs of the 9 new eubeoribers and fhe a gw, purebred, and ellyible for registration end you your oholog of boar or
 Bright hass can win,
uay heme from whool,
Over 200 boys and other people have won Farm and Dalry purebred plat
Say you write to Farm and Dairy n. You'th be proud to own one,
one of your pure-bred pigs. I'll get the nine new suby: "I want to win soon as possible." Then get bug get the nine new subscribers for you ae You oan probably call enough of them on the talophone. Say you dolt now
while you think about it.

Farm and Dairy
Peterboro, Ont.

## All <br> ALL the Diniry cow

le form

## Dalry Gattlo and Milk Produetion

 By Prof. C. H. Eckles.aveh a way that presenting material in tical farmer to aare properly for hils dairy
loally.
faifty-seven illnetrations show typee of dairy breede, noted dairy animale, ap plee of good barne, stalle, King system Ventilation, Trocar uned for Blont. chapter on common allments TAGIOUSE-UDDER TROUBLES, CON. Pagous Abortion, ETC,
Prof. Eekles, the author of this book, praotioal ex firy authority. He hae the patiflo trainite. Por, together with selhad charge of ar over of from 30 he hat duolng antinals, theet being high probeen Profeseor for eome yenrs he hae the Univenesity of Miesourl.
Every man with dairy oows an proft
from this book. It will be fine for your Price, $\$ 1.75$ postpatd.

## 



CALVES RAIse them without milk steele, Brifiss feod Con tre ter

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## E

HELPING word to one in trouble is often like a switch on a railroad track-an inch between wreck and smooth-rolling prosperity,-H.W. Beecher.

## Rose of Old Harpeth

## By MARIA THOMPSON DAVIESS

Copyright, 1912, The Bobbs-Merrill Company" (Continued from last week) CHAPTER VIII.

UNCLE TUCKER'S TOROH

${ }^{66}$ Atree? Glad to see you, suh glad to see you again! How is all Sweetbriar? Any new voters since young Tucker, or a poem or so in
the Rucker family $;$ And are you succeeding in keeping the peace with Mrs. Plunkett for young Bobp'", And firing this volley of questions through the gently agitated smile-evil the Honorable Gideon Newsome stood in
the door of the store, large-looming the door of
and jocular.
"Well, howdy, howdy, Senator, come right in and have a chair in the doorbreezel" exclaimed Mr. Crabtree as he turned to beam a welcome on the Senator from behind the counter where he was filling kerosene cans. "We ain't seen you in most a month of Sundays, and I'm sure glad you lit in passing again."
Sweetbriar, friend Cright in passing ed the sentor friend Crabtree," answered the senator impressively. "I start every journey with a stop at Sweet-
briar view, and it seems a long time until I make the haven I assure you, suh. And now for the news. You say my friend, Mrs. Plunkett, is enjoying her usual good health and "Well,
Well, not to say enjoying of things in general, but it do seem she has got just a little mite of spirit back along of this here bully-ragging of Bob and Louisa Helen. She oome over here yesterday and stood by the counter upwards of an hour before I could persuade her to be easy in her mind about letting Bob take that frizzling over to Providence to a ioe-cream festival Mis' Mayberry was a-having for the church carpet benefit last night. After I told her I would put up early, and me and her could jog over in my buggy along behind them flippets to see no foolishness were being earried on, she took it more easy, and it looked like onet and a while on the road she most come to the point of enjoying her own self. But I reckon I 'm just fooling myself by thinking that though," and Mr. Crabtree eyed the Senator with pathetic eagerness to be assured that he was not self-deceived at this slight advance up the steep ascent of his road of true love.

Not a bit of doubt in my mind she enjoyed it greatly, suh, greatly, and I consider the cause of diverting her grief has advanced a hundred per cent. by her consnting to go at all. Did any of the other Sweetbriar friends avail themselves of the Providence invitation - Miss Rose Mary and er-any of the other young people"No, Miss Rose Mary didn't want to go, though Mr. Rucker woulder liked to hitch up the wagon and take ber and Mis' Rueker and the children.

She have been mighty quiet like since Mr. Everett left us, though she'd never let anybody lack the heartening of that smile of hern no matter how tetched with lonesome she was
herself. When the letters come I just can't wait to finish sorting the rest but I run with hers to her, like Sniffie brings sticks back to Stonie Jaskson when he throws them in the bushes."


A Farms Competition Winner at home with his family
Readers of Farm and Dairy are here introduced to Mr. and Mrs.
Chateauguay Co., que., whote farm stood third amonr and zirs. J. W. Logan, International Prize Yarmi Competition ecndueted by Farm and Dairy noted that Mr. Logan's labor probiem will be in a fair way towarda solving witeelf within the next few yeara.
editor of Farm and Dairy.

Ahm-er-do they come often P asked the Senator in a casual voice, ut his eyes narrowed in their slit Oh, veil became impenetrable.
Oh, about every day or two, an swered the unconsciously gossipy little bachelor. "Looks like the whole family have missed him, too. Miss Viney has boen in bed off and on ever since he left, and Miss Amandy has tooken a bad cold in her right ear and has had to keep her head wrapped up all the time. Mr. Tucker's mighty busy a-trying to figure out how to crop the farm like Mr. Mark laid aff on a map for him to do-but he ain't got the strength now to even get a part of it done. If Miss Rose Mary weren't strong and bendy as a hickory saplin she couldn't prop up all them old folks."
"Yes," answered the Senator in one of his most judiciai and duloet tones as he eyed the litile bacheor in a caloulating way as if deciding whether to take him into his conffdence, "what you say of Mr. Allowwith being too old to farm his land with a profit is true. I have come this time to talk things over with him and -or-Miss Rose Mary. Did I understand you to say our friend Everett is still in New York? Hav you heard of his having any intention of returning to Sweetbriar any time soon P"
'No, I haven't heard tell of his coming back at all, and 1 'm mighty
sorry and disappointed some, too,"
nevertheless a decided note of excitement. "Do you know where I can find Mr. Alloway I think I will go have a business tall with him now." And in a few minutes the Senator was striding as rapidly as his
ponderosity would allow up Provi dence Road, leaving the garrulons Provitle storekeeper totally uncomscious the fuse he bad lighted for the firing of the mine so long dreaded by his friends.
"Well now, Crabbie, don't bust out and ery into them dried apples jest to swell the price, for Mis' Rucker will setch you sure when she comes to buy em for to-morrow's turnovers," came in the long drawl of the poet as he dawdled into the door and flung the rusty mail-sack down on to the counter in front of Mr. Crabtree. "They ain't a thing in that sack 'cept Miss Rose Mary's letter, and he must make a light kind of love from the heft of it. 1 most let it drop offen the saddle as I jogged along, only I'm a senaitive kind of cupid and the buckle of the bag hit that place on my bee I got sleep-walking last week while I was thinking ty Chat verse that 'de spair' wouldn't rhyme with 'hair' in for me. Want me to waft this bere missive over to the milk-house to ber and kinder pledge his good digestion and such _in a glass of her butter milk $P$
"No, I wisht you would stay here in the etore for me while I take it
over to her mysalf. I'v got some kind of business with her for a few minutes," answered Mr. Crabtree as be searched out the solitary letter and started to the door with it. "Sample that now keg of maple drip behind the door there. The cracker box is ope be added by way of compensation the poet for the loss of the but

## milk.

The imagination of all true lover easily exercised about matters taining to the tender though Mr. Crabtree had never life received such a letter he divinite instantly that it should be deliv. promptly by a messenger whose cury wings should scarcely pause agitating the air of arrival and parture. And suiting his actions his instinet he whirled the onvel across the spring stream to the tabla across the spring stream to the table
by Roso Mary's bide with the aim of by Roso Mary's side with the aim of
one of the little god's own arrows and one of the little god's own arrows and
retreated before her greeting and io. retreated before her greeting and i
ritation to enter should tempt him.
"Honey drip and women folks sweet jest about the same and th both stick some when you're got your full of 'em at the time," philosophin ed the poet as he wiped his mout ed the poet as he wiped
with the back of his hand.
'Say, Crabbie, don't tell Mis' Rucli or I have come home yet, please. want to go out and lay down in the barn on the hay and see if 1 can that 'hair-despair' tangle straighteted out. She hasn't seen me to tell in things for two hours or more and know I won't got no thinking done this day if 1 don't make the bar 'fore she spies me." And with furtir steps and eyes he left the store and veered in a round-about way toward the barn.
And over in the milk-house Ros Mary stood in the long shaft of good on light that came across the valley and fell through the door, it woul seem, jus to throw a glow wide sheets of closely written papet Rose Mary had been pale as abe worked, and her deep eyes had been filled with a very gentle sadness whid ighted with flash as she opened th: envelope and bigan to read,
"Just a line, Rose girl, before I pur out the light and go in a dream hus for you," Everett wrote in his squase black letters. "The day has been long and I feel as if I had been drawn out still longer. I'm tired, I'm hungr, and there's no balm of Gilead in and there's no balm of Gilead in
New York. I can't eat beoause thene New York. I can't eat beonuse there
are no cornmeal muffins in this how. ing wilderness of houses, streets, pee ple and noise. I can't drink becaus. something awful rises in my throu when I sce cream or buttermilk, and sassarcak doesn't interest me aut more. I would be glad to lap out a one of your croeks with Sniffie and thr "And dogs.
"And most of all I'm tired to se you. I want to tell you how hard am working, and that I don't seen to be able to make some of these ath pid old gold backs see things ill) way, even if I do show it to them ered with a haze of yellow pay duce But they shall-and that's my rot "I

I wish I could kneel down by you rocking-chair with Stonie and hew Uncle Tucker chant that stunt about 'the hollow of His hand.' Is any o that true, Rose Mamie, and are yoi true and is Aunt Viney as well is could be expeoted, considering th length of my absence? I've got the little Bible book with Miss Amandi blush rose pressed in it, and I put yy hand to my breast-pocket so often 4 be sure it is there and some ofter things-letter things-that the bat and friction of them and the hand combined have brought out a grat patch of prickly heat right
( $T_{0}$ be continued.)

## May 29,

## The U

## Trust a

On. of the w in our language
is the key-note frain, singing year to yrom da ing the outlool appointinents,
ing, the clearer ing, tho clearer
my cheering mel When, perhap wonder what d coming, and I coming, and 1 ed Sometimes
heary bereavem stunned and he
jor. Those are jog. Those are
wonders how th and the birds is were no sorr
Then is the tim. Heavenly Fathe minor key perh but which as we
becomes a part til the hour do
minor tone is c minor tone
jofful one.
We must truss obedience to per Which we shrink We must trust to

## 

 The Upward Look

Trust and Obedience

On of the words of most meaning in our language is "trust," To me it
is the ley-note of a glad joyous refrain, singing and resinging from
vear to year. from week to week, year
from day to day. The meere discourag from day to day. The more discourag-
ing the outlook, the keener the disappointments, the harder the suffering, the clearer and more insistent is my cheering melody of comfort.
When, perhaps, a day has seemed to be one of failures and trials, I wonder what delightful surprise is
coming, and I can say with a full thankful heart, I am never disappointed soary bereavement, the face of sore hoary bereavement, the heart is too
stunned and heavy to ever think of

Those are the days, when one vonders how the sun can ever shine and the birds sing, just as if there were no sorrow - breaking hearts.
Then is the time, trust in our loving Heavenly Father is the song; in a minor key perhaps, for many a day, but which as we sing it and repeat it, becomes a part of our very being, unminot tone is changed again into a jogful one.
We must trust when called upon for obedience to perform some duty, from We must trust to be able to do it joy-
fully, knowing that strength will be that the needed fully, knowing that the needed a victorions eharge.
strength will be granted. What Ofte: obedience
glorious examples are given through- doing of some glori glorious examples are given through- doing of some glorious task, but the
out our great Gride-book, "And the petty, sometimes distasteful, tasks of Lord had said to Abram, 'Get thee the petty, sometimes distasteful, tasks of of thy country, and from thy kindred, and from thy father's house, unto a Aand that I will show thee'." Notice Abram did not know his destination, anly that he would be guided to it. And as he started out on that long, unknown journey, with a heart full of trust and courage, so may we begin surely as the required task. Just as up his as he was commanded to break perform home, so are we ordered to pery to reason that it is no . We may but in our heart of hearts we know, it is.
We may not at all see how we can accomplish the task, but as he trusted the way would be shown, we can know definitely that as each difficulty in our problem confronts us, we will be grant
dhe necessary wisdom to solve it He knew that the journey sove it would be full of difficulties and times gers, but he also knew he would be granted strength to bear them. So we know our task, if it is really worth doing, will at times be difficult, even There is a heroie prill not shrink. There is a heroie present-day illuswar. The Montence in the Balkan forts with Montenegrins captured five red with the aid of a couple of huntask from-throwers, chosen for this bombrom many battalions, Every their sacrifice the way was. But by
everyday life. For these also the necessary strength is forthcoming.
promise, "I will encouraged by a rich nation and I will bless thee and make thy name great, and thou shalt be a bleasing." The sweetness of obedience is unbittered if we obey for the sake of the reward, but we may be encouraged that every act of obedience will have its results. They will not alstrive for, what we expect; we way not live to see them in this life; but we can trust, with our whole souls, blessed.-I. H. N.

## Finding the Silver Lining

Drudgery is only a state of mind caused by lack of objective. To be sure sometimes the easier, happier day looks far away, yet there surely is one somewhere. If it seems that one else find out why. There must surely be a reason somewhere. If vou are lonely, tired and neglected there is surely a reason. You cannot help but realize that all the community is not combined against you. They have neither time nor interest or it. If they are all doing it you may be sure they are doing it you $y$ individually and the fault lies in aid the not in them. One woman
very much misunderstood woman hardly think so. People are simply coming to understand her well enough so that they are leaving her Don't let life become a drudgery Keep an interest somewhere that wil help to lighten things. You may love to paint, to embroider, to go ahoat or to travel, and to-day and for many to-days you may not be able to do it. To-day it seems as if you must sleep. Baby is wakeful and restless and has been for weeks. Our arms are tired and our whole self cries out to do something besides the routine. et remember it is only a gle so soft ouddly bodies that snuggrow independent in mother's arms, grow independent and our arms are empty and we want them back. Drudgery is a habit, a bad one, and it needs more fighting than any thing else. Fighting it successfully is go ing to make our lives and the lives oreryone else infinitely happier. Farmers' Review.

Waste Water,-Kitchen and laum dry waste is neither especially offensin nipes dangerous hence can be rum feet, the end of the pipe 20 or 30 prevent obstructione pipo screened to lowed to open on entering and alchard, on any growing plant whose tuit wil not be contaminated by it, garden for int be discharged onto the garden, for instance. The pipes must - Miss Juniata L. Shepperd.
"What's flour gluten, Bud?" "It's what makes your dough rise, Rose."
"Yes"-she encouraged.

## Added Bud very sagely:

"Makes it rise in the mixer and expand "in the oven. It's the elastic part of "flour-absorbs all the water and milk "-and things."

## Rose grew interested.

"FIVE ROSES, said Bud, is exceedingly rich 'in gluten. I s'pose because it's all made "from Manitoba wheat. Takes up a lot "more water - makes those fat loaves "lasts longer too."
"Savee money, doesn't ter" anked Rose.
Bud in a bieg volice:
"The fat loof makes the fat pocketbook"
Use FIVE ROSES alwaya.
And Rose anid YES.


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## 53 <br> a Day Sure <br> 



## FERTILIZERS

## or information regardeng all homds of mixed and

THE WILLIAM DAVIES CD., LTD. Weet Toronto . Ontario

Flowers for the Busy Woman Ella F. Flanders
For the busy woman who loves flowers and has time to cultivate only a few, the gladiolus is one of the most satisfactory I have ever grown. The mixed colleetions now sent out by many florists may be obtained at very moderate cost and often comprise many of our very best varieties. From the collection I received last summer, scarcely any two proved to be alike and all were of the loveliest shades and colors. I planted them in rich loamy soil direetly in the flower garden (did not sprout them in the house is I used to think I must do) and they bloomed in August. When taking up the butbs in the fall I found each one had doubled, so for this spring I am well supplied.
Many years ago a leading florist sent me two bulbs for trial of a variety he had just introduced - the Golden Sceptre, and for wonderful beanty I two bulbs increased rapidly and all through the years I have given to my friends and reserved for myself quantities of these favorites.
By labeling the bulbs as to colors one may have a bed of various shades which may be made very artistic. Sweet alyssum is one of the daintiest of border plants. It comes quickly into bloom from seed and lasts from early summer until severe frosts.

## -

## The Fireless Cooker

Warm summer weather will soon be with us again and with it will come the usual strain on the housewife of doing her work in a hot kitchen and over a hot stove. It is now possible,
however, for almost every farmer's wife to minimize the amount of fuel used in cooking and therefore do away with a hot kitchen to a great extent, by the use of a fireless cooker.
The fireless cooker which now has The fireless cooker which now has an accepted place in such a large percentage of city homes has advantages just as great for the farm home. There are many of these cookers now
on the market that can be bought at a very reasonable figure, espeeially the single cookers or those intended for only one cooking vessel. Such a one will afford an opportunity to get acquainted with the cooker's possibilities and at the same time give a large amount of service. Too often the fireless cooker is given only a halftrial and as a result only half does trial and as a result only half does
its work, and is then condemned as nice-sounding in theory, but not practical.

## HOMR-MADR COOKER

One of these cookers can be successfully made at home if the fundamental principle on which they are based is kept in mind. The principle is simple. Food which has been brought to a good boil over a fire is closed up with
an air-tight cover and placed in a box and completely surrounded with some non-conducting material like hay, sawdust, or asbestos, which holds prisoned continues cooking the food. A tightly covered tin or granite can or bucket or a kettle, preferably without a handle, but having a tight coror, a wooden box with a hinged cover, and packing material, are the essential requirements for a home-made fireless cooker.
The packing box should be considerably larger, sav three or four inches in every direction, than the vessel used for cooking. Line the box with with sweet cleas with sweet clean hay, leaving a nest in the contre in which to put the vessel containing the food. Have plenty of hay under the vessel and make a cushion pad of hay to go on top. The space must be completely filled so that when the top is fastened down, the When the top is fastened

The food which is to be cook placed in the can or kettle anc
over the fire, where it is broug the boiling point and cooked short time-from two or thre minutes (the time depends material and must be learned parience). It is then placed box, covered, and the lid shut tizht. The length of time for cooking is ordinarily the sam When cooked on the stove. The er must not be opened until re serve the food, though if it is thing that requires very long like a big roast or ham, beans, it would be well to and re-heat on the stove after or four hours and return to the cess of a cooker lies in having it ed tight to exclude all air, hav food boiling hard when put in, closing up quick

-     * 


## Let the Boys Help

Why is it that boys are all sit in the house doing nothin their over-worked mother is stry half the work waiting for her Only the other day we saw thr able-bodied boys, lounging house, not knowing what to
themselves, while mother, alo and pale, was trying to do thr


Beautiful Lawn Decoration Of counie Miss Retty Howell, the member of the Galt Horticultural Socice is here the main attraction. The beat Bome for home beautifying
for a large family and compa a boy to help about the hous not? is there anything abo ing dishes that will injure about making the beds, or setting the table, or wash ironing, or cooking a plain meal victuals? On the contrary, too much to benefit him ins the most important of whin g , in the idea that it is not lit the weaker "vessel" car burdens, when
hands to work.
Most boys would gladly he house if they were asked and were taught how to do properly. Many a smart help his tired mother doesn't know how, beyond i wood and water. This don him to go and play while wearily on. Not a boy's shamel It is positive ha moral character to allow him it is right to be idle. while sathe struggling under her burd the boys help, and those get help "for love or mones their troubles disappear
Farmer.

Simpler P IIrs. W. M he warm sun aral hours ev ing chishes for dren. These hosever, that would onlp st cy are wea ho pends s cereeper

HOWH
making, happier th place" on remains restrain it mons from is the kind S. arntion of agh the m Some yza culdenly came ning to an a oreparation of preparation of
I resolved thei all possible I my strength in WHOLEsOM Some reader policy might h farms must hav in order to ke Fortunately, w plain food and try people have ty dwelers. H wilk, fruit and table and are ifferent ways have not menti rally expect t tise a day she eather. I try ables in the sin avor salads qu table for the fin hot eas will see just ho
whew

Simpler Preparation of Food

Irs. W. Mitchell, Wentworth Co. Ont.
To many women there are who in the warm summer weather spend sev-
eral hours every day over a hot stove a hot kitchen preparing a ppetizishes for their husbands and chil-
These dishes would pease the These dishes would please the
exacting persons. mosi exacting persons. I believe,
hoonser, that if many of these women I onlp stop to consider the quesChey would come to realize that are wearing themselves out, it rin sympathize with the woma pponds so much time in the pre-

## №

WHERE is a woman's character more slearly shown, or her talents given more scope for cultivation than in home making, and in no sphere is the true woman more content and happier than in housekeeping. Home is indeed the "dearest remains with us until death, and will do more to protect and restrain its inmates than the and will do more to protect and mons from the most gifted ministers and orators. In short, home is the Eindergarten of aft Christiah work and influence, the starting point of beautiful thoughts and deeds.

## 2wreereceverewerer

paration of the meals, as I have come
through the mill and know all about
Some years ago, however, whe
ending an Institute meeting. attending an lnstitute meeting, I
suldenly came to my senses while listening to an address given by one of
the Institnte speakers on more simple preparation of food in warm weather. I resolved then and there that if a all possible I was going to conserve
my strength in this regard henceforth.
wholesome pood nbogssahy
Some readers may exclaim: polier might hold gool for people liv. ing in the city, but the men on our farms must have good wholesome food in order to keep up their strength.
Fortunately, wholesome food may be plain food and here is where we country people have the advgntage of our
citv divelers. Bread anid butter, egegs milk, fruit and vegetables are all pala. table and are nearly all produced on the farm. These can be prepared in
different ways to form a variety different ways to form a variety.
have not mentioned meat, but we urally expeet to have ment, although otive a day should be sufficient even
for hard working men in the for hard working men in the hot
weather. I try to prepare my vegetables in the simplest way possible and favor salads quite frequently as they casily prepared and particularly table for the warm days.
I am a believer in plenty of nourish-
ing food in hot weather, but plain and easily prepared. Every housewife who considers this question

## e e

## A Utility Apron

## By Rose Seelye-Miller.

it-cloth apron comes in very pon oecasions. It may be tied other apron or dress, and in-
from being wet or soiled. 1 oil of the apron comes directont, and if this could be saved vashing could also be saved.
ake an oil-cloth apron, get
white table oil-cloth, fold and cut it exactly, fold one corner of the diagare 1 out a piece to fit the figgives a pointed apron that down in front and shorte hipes, but large enough to protection to any gar-
grneath. The edges may be cut out with a pinking-iron. binds the part which goes waist. A bib may be out remaining oil-cloth, and
may be sewed thereto, by
and
kind available, from which an instant E'ireside.

## The Value of Shade Tress

## Mrs. W. MeCrae, Essex Co, Ont

 on a summer's imagine a nieer drive try road lined on either side with rows of stately shade trees? It certainly is a pleasing picture and by no munity. We are quite proud of our shade trees in this community, al thougn we realize that there is still much room for improvement.I bolieve that the Women's Institutes in the various districts eain do much towards beantifying their surcoundings. We women are usually credited with having a greater appreciation of the beautiful than the men. Still we must have the assistance of the men if we are to accomplish any. thing and we have found that the men in our neighborhood are quito willing to help to carry out any project that we suggest of they consider ill be beneficial to the commun-
The ladies in our Institutestarted an agitation a few years ago to have more shade trees. The men soon became interested, especially in fixing
their individual homes. Then we had their individual homis. Then we had trees planted around the churches and schools. What can present such a church withearance as a school trees are now growing nicely and we improvement that has been made the There is always pas been made. the Women's Institute if the members are willing workers. And I believe deavoring to doing such work as endeavoring to make country life pleassible from the idea that sur as possible from the idea that such a life
is dull or monotonous, that a Women' Institute may become a power for good in any neighborhood. power for

## * *

stove while vinegar if placed on the prevent cabbage is boiling, wili through the unpleasant odor going Bind *
Bind a piece of old blanket round the top roiler of mangle. No buttons will then break, and the clothes will be squeezed much drier than usual-a great boon in winter. The rollers, too, will last longer, as they cannot
possibly crack nor wear away so soon.


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ments and Stock by covering ments and Stock by covering your roofs with "EAST. LAKE" METALLIC
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## When Drugs Fail to Cure Constipation

Thousands of sufferers from Constipa tion and all its attendant ils, etrive
along from day to day, vainly endeavoring to shake off their affiction by the use of drugs. In the end they are still suffer ers and what is more they are elaves to could learn for themselves how people effletont Dr. Charles A. Tyrrell's J. B. L. Casaade treatment is for afflictions of thin kind they would shorten their suffering by many daye and soon know again the If one of these perfect health.
It one of these sufferers who has been sured by the Oascade could speak to you personally he would in the greatent en-
thusiasm talk to you as Mr. M. Nighs. thusiasm talk to you as Mr. E. Nighs-
wander, of Green River, Ontario, writes: wander, of Green River. Ontario, writes:
"For years I have been troubled with con For years I have been troubled with conwhich all the money bowels and pilew, which all the money and doctors only asemed to relieve temporarily. The J. B. troublen and I feel it a duty I owe to my fellowmen to endorse the Coscade in the very higheet terms. No amount of money could estimate the value it has been to me. No home should be without a One oade."
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 vesond oulf Theroir oro vin . Fith young berife from theore hetifern that io
 br Datochand Colantha sir Mons Mome
in the tarm and see the dame of theme


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ton herd aire is Veeman Beauty Hon hard sire is Veeman Beauty Hartog.
finported in dam. He is sired by Prince Beanty Piet Hartog who sired by Prince
30 N. R. 0 das nearly 30 A. R. O. daumhters, two yearold with
recoorda of is to 20 pounde. Prince Beauty Plot Hartog is a pounde. Prince Beauty
a pion cow, the firat one wo make
pounds at an thec-vear-old. HIs sire
Beanty Pis Beanty Pleterge Butter King who has Many A. R. O. danghtors, inoluding Servis Prilly Ronble Hartog who has oeven daughters that at an average age
of two years and seven monthe have records averaging and esven monthe have
Peiterg.
j0.10 pounds. Beauty Peiterge. 30.51 pounds. the dam of Beauty King. has a daurbiter tand grandaughter
with reoords of 30 ponids with records of 30 pounds. Ehe is the beet daughter of Prilly, 25 20 pounde who with
her Exx daughtery held the worid reord.
The dam of Veeman Beauty Hartog is Arah dam of Veeman Heauty Hartog is year eight monthg of age, made nearly 11 pouncs of butter 70 days after freshening
8 he was by King Veeman DeFol site She Was by King Veeman DeFol, sire of
3 A . R. O . daughtere including Mona Vee man, 30.94 daughtere including Mona Vee son of Joecie Veeman A., 26,95 pounds
with six A. R. O. daughters. The dam Arah Veeman ie Mona Arah. The dam of with daughters having reoorde up to $g$ gis pourde. Veeman Heauty Hartog to folKlang Lyons Hengerveld is a a pon of Whose dam holds a world's recors, pouridis and four daurfiters averasing 30,40 pounds
inveetment, and will yis per oent interent.
SEMI.OPFICIAL RECORDS OF HOLSTEIN PRIESIAN COWS. MARCH I TO APPRIL 30 7. Splnk't Butter Girl, 8635, 4y, 2N6A.
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butter. Owner: Dir. Experimental Farme, butter. Owner: Dir. Experimental Farme,
Ottawn, Ont. 5. Arrawanah Pooch 2nd. 11854, 3y, 292d. $11,594.5$ lbe. milk, 461 lban fat. 576.25 lis. but
ter. Owner: J. M. Van Patter, Aylmer. 6. Minnie May of Ormond, 9257. sy, Md 10.466 .2 The milk, 349 is 1he fat. 484 is The
hunter. Owner: is. 6 . Carlyle, Chesterville. hntte
Ont.


Another Study in the Correct Thing in Holatein Type
"Duchesn Boutgie De Kol," soon, here thown, is owned by the Colony, Farm


 and her sire has two 34 pound daughters The sire of B. I. Jobanna is Netherland 7 . 1 milushow no strongly World or record with DeKol who holds the
the most semi-ofleial record daughters, has $44, ~ A . ~ R . ~ O . ~ d a u g h . ~$
tere. 13 proved bons and is the sirg of ters, ${ }^{\text {Is }}$ proved sons and io the sirg of
Johanna DoKol Van Beers. 40.96 pound in in
7 dave. 289.11 pounds
 days. King Lyou Hengerveld is sired by
Kig Peter, son of Blacho Lyons DeKol,
3.31 has pounds. Her dam, Blanche Lyone has two daughters above 33 pounds and
her sire, Pietertje Hengerveld Count De Kol, had four daughters averaging 32 DeThe sire of King Peter is is son of Hen-
serveld DeKol who holds the gerveld Dekol who holds the world's record ${ }^{\text {recoord with the greatest normber }}$
of $A$. O . daughters and greatest num. danghters and greatest num. ber of 30- Dound granddaughters, grand rugged animals of dairy type are De Witt is one of the four cowse in the year book that gaye over 800 pounde but.
ter in the R. O. $P$ tent. 8 he wae the
third cow third cow datrodued un Graceland Farm.

 a devee.dant of Calamity Jane has a
record of 2239 pounds. Another
 of mention is Belle Mersedee Posoh, 21.ce
pounds as a senlor three-yoarold. We also have a baif sister of the Oanadian also have a haif Eister of the Oanadian
champion. Qucen Buter BBroneme. $\$ 5$
pounds. Mech
 Columbia.
holstein fund invested
Canada, whose business is in a hisciation of promperons eandition. recently a highly over $84,000 \mathrm{in}$ bonds of the town of Wated
loo, Ont. This is regarded as a very anfe

 los. butter. Owne' . B. G. Oarlyle, Cheeter vilie, Ont.

## Two Year Class

 butter. Owner: H. F. Pattersion, Alford ${ }^{2}$ Marie Pontiac Korndyke, 12499, $2 y, 74$ :
 Ont. Matual Priend Frontier Nicolo, 13,2s7,
B.
 son. Boharm, Oer Owner: Benj. H. Thom4. Neta Morcena $14513.2 y, 195 \mathrm{~d}$ : 8934.5 lbs milk, 300.5 lbs. fat. 33812 lbe. butter. Own5. Johanna Julianna Iou, $123 / 2,1 y$ J35d.:


 Junotion, Ont.
7. Kuperuse Pontiae Walker, 1918,
 The butter. Gwner: C. E. Bmith. Scotland.
the. D. P. Mavflower ti641. 'o suld: sont Owner: John J. Tannabult, White Station,
Que. In the "threeyearold elaas an excellint ehowing is made Tady May Baronewa with
Th. 18 the. butter. and Wo-4land Quen De
 any
elane.

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the value of Egyptan Liniment given by the experience of Mr. Holden, of Montreal, as given Holden.
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ment to all horemen cleane ont Dougias Egyptian aimply marvellous.
250 at all Dealers. Free eample request. Douglas $\&$ Co., Napanee, 0

## Breeder's Directory <br> Cards under this head inserted at the rate of 84.00 a line per yer. N card accepted under twe lines. card accepted under two lines no for lens than nix months, or 2 innertlons during twelve monthe <br>  YORKSHIRE PIGS. Cholce Young Boars, fit for spervice. An Sowa of all agen, bred and heavy pig.-H. O. Benfleld. Woodstoek, <br> FOR SALE-2 Ron of King Fayne kep Clothilde.from R. O.P cows, Aloo this Olyde Filiey and S Stalions, Yearling R. M. Holthy, Mancherter, Ont. <br> HOLSTEINS-Young, stock for eale Mirn by Imperial Pauline $\mathrm{De}_{\mathrm{K}}$ Kol, whon nearcet dams average 26.30 lbs . 7 days.-R. W. Walker. Utioa.

## HOLSTEINS

## LYNDEN HERD

## High Teating Holateine for sale, on

 Bull, 1 year old. Aire's dam Laln Glaw$26 . \pi$
bred, unteated 2 , 7 daye. Dam ant fith bred, unteated 2.year-old. Price. abs rith 8411 Oalven from large reocond dans Heifers in milk. Write or oome and
2-reare fiem in in
s. Lemon.

LYNDEN, or

## HOLSTEINS

Two Holstein Bulli Fifteen monthe old, one from a twee R. P. HICES. NBWTON BROOK. YORE $a$


MAR Y*****อง Toronto, Mond
venther hus h
nide. There is reather There in
inde
noving, but the ot in eridence
the tightnems
and Rorrowera conti
iberai nocommo reel cetate seen
6\% to 7 per cen money hat

## MARKET REVIEW AND FORECAST


wheat wheat



 There is citite RSE GRAINS


## 



## Nulers mem Mit FEDDS






## Beans aceroc are 50 c auoted at 82.40 to 82.50 Bot hand picked.

 E6OR AND POULTRYstandy prices for eges for five weeks pow would reem to indicate that the low.
ratur mark for the seabo has been ho United will cause a further dexcoeline.
there is no dates markets too are ateady there is no danger from thate source.
alers are buying egres for local oon-
mption and storage at 200 to 21 ce . They
retailing on tho ta
 Butter has DAIRY PRODUCE in the last woek as receipts are oontinually In the increase. Tha opening of the rious decrease in the amount of butter
ride in combination factories as, cheese lithin the lat feen dayery natisfactory. 1. and all country boards has improv bee country boards have been
ve the 110 mark. Local deal
 0 : old twina, 150 to $15 \% \mathrm{~m}$ HORSES.
licary hornes are changing hands more tom bong for city in that purposes. Good
 Yodernt LIVE STOCK.
Moderate receipta, combined with a mood
teady dewand, have held pricos-fim eady demand, have held pricen-firm at
bronto steck Yards. This week, at last, vy export cattle, even when well fitted,

## JERSEYS <br> FOR SALE, PURE BRED JERSEY MALE CALF One month old, bolld oolor, black tongue and witoh, Dum. Prides Pauling Irand dam, Bteele's Pride: sire, Lady's Jolly Don Thm, is is beautiful salif, Lady's Jolly Don great miliker. Wull thip mother is a  thing good oome and nee members of hif fanily Reterence Merohante' Bank and Oandian Bank of  AYRSHIRES

TANGLEWYLD AYRSHIRES
 Choieely bred Young Bulle and Bull
Calves by Royal Btar of Bonnie Brae a
 If you want hischelaes Ayrshires WOODDISSE BROS ROTHSAY, ONT.
G.TR. Bta. and Phone


AYRSHIRE CATTLE AND YORKSHIRE PICS
 each or, if regigtered, 36.00 . Aill the
ebore aro from first priso whook. Bend
in orders mom, in orders now, with ingtruotions re


## Burnside Ayrshires

 Winners in the show ring and dairytesta. Animals of both bexee, Imported
or Oanadian bred for ssle. Long distanee 'Phone in house. R. R. NESS. . HOWICR, QUE.

> SUNNYSIDE AYRSHIRES Imported and Home-bred, are of the oholoeet breeding of rood type and haye
been seleted for production. THR
Young Balle dropped this fall,
 an well an a few females of varlona ages,
for aale. Write or come and see. ('Phone fo bonse.)

## LAKESIDE AYRSHIRES

Wulln of offoring a number of fine Young
enkfe Oheerful Boy "ras, wired by "Barng,
of them are from damn already enterea to
en numbenoed Regieter, while the dams of others are at present an-
der test for the Recond of Performane
LAKESIDE FARM, PHILIPBBURE, QUE,
H. monraomenv, Prop.
164 at. Jamee 8 th, Montreal

## Ayrshires and Clydesdales

## SECOND AIINUAL SALE

Under the auspices of the Distriet of Beaubarnois Live Stock Breeders

## Ormstown, Que., June 20th

 100 Ayrshires (75\% leopras) 10 ClydesdalesOur first sale was the event of 1912. Watch us make good
for 1093 ; our standard is just one notch higher. All Cattle Tuberculin tested.
Catalogues ready June ist.
GEO. J. BRYSON, Secy. ORMSTOWN, QUE.

## HOLSTEINS

## Lyndale Holsteins

We are now offering Bull Oalves from ficial reeord dama and sired by frome of Brown Bros., Lyn, Ont. SPRING BROOK Holsteins and Tamworths Herd headed by Bir Korndyke Boom,
one of the best sons of Pontiac Korndyke. Dam, Fairview Korndyke Boom, jr. 4yr. 130 in 80 days. Average teet, $4.86 \%$ fat, Thie bull and his dame aese both half brother and sister to "King of the Pontiacs," eire of the world's record cows. $\$ 4.4 \mathrm{lbs}$ butter in one week, 122 lbe in 80 days, For eale, a niee rich bred bull, 9
moi otd, moetly white. Well grown Teeted dam. A fow good cows to offer.
No heifers for sale. Come at once and No heifers for sale. Come at once and
get a Korndyle or a good foundation cow. BRESLAE. A. C. HALLMAN,

## \%ixi HOLSTEINS

## 2 Young Bulls,

8 Youne Balls, 1 , old, also 4 Oalven
of 1913 from firat-olnes stoolt.
Pricee eney room for other stock.
0EO. A, ROBERTSON, ALMONTE, ONT

Systematic Breeding
Systematic Feeding
Systematic Weeding
Are among the faclors that have buils
up a ereat herd of Holetein-Frieeian up atreat herd of Holetein-Prieedian
oattle at Lynn River Stock Farm. The herd is headed by
KING SEGIS PONTIAC KONINGEN One of the beet bred and best indi-
vidual bulls in Oanada. vidual oulls in Oanada.
We have for sale at reasonable prices
a fow Cown and Helfers bred to this
bull. ball.
J. ALEX WALLACE - SIMCOE, ONT.

## RIVERVIEW HERD

9 Young Bulls, from 2 to 12 months, sired by King Lasalla, Walker, Whoee eifrer, of hearent omcially tested dams, a fre average for the eight 30.34 lbe . from B.O.M. and R.O.P. dams. P. J. BALLEY, LACHINE RAPIDS, QUE. ELMDALE DAIRY HOLSTEINS



 FRED CARR For price write, ST. THOMAS
YOUNG COW'S AND HEIFERS HOLSTEINS of different Bafe in oalf to a con of the great bull De Kol the 2nd's Butter Boy the Jrd. Alpo Yearling Heifers, and Heifer and
Bull Calves for spring delivery. Write for prices.
W. W. GEORGE,

CRAMPTON, ONT
Avondale Stock Farm GARDY, PROPRIETOR. HERD BIREs
Priase Honiderveld Plosfe, ime ( $0, \mathrm{Ban}$ ) Dim, Princte trud Woodersest Lad. Eighest record A. ©iaumter of Hengerveld Sing Pontiae Artis Con. Ling Foariae Artit Calanda, $10,442(71,2 \mathrm{~N})$ Dam, Pontiac irtis, \$1.7 Ibs. butt Cays, 1,036 Ibs, Ses days.
dater Daughtors of Fingerveld De Kol.
We sre offering balle frem sheye freas ofree and high recond dame, and aloos limited number of oows in oals to them
No beifer oalf will be nold at tury prioe.
iddrees all eorreapondenee to


## OUR FARMERS' CLUB

Correspondence Invited
OF?
ONTARIO
ELORA, MELLINGTON CO., ONT. 17 -Cool woather has had the effect of ohecking growth to some ex tent, but nearly all the grain is throurh the ground and shows a healthy appear
ances, with very little injury by frost. Fall whent iv, generally epeaking, frost, par tures, owing ohisfly to the open weather
last fall and the of paslast fall and the close and late pasturiag. which left no proteetion. Only the fields be of any value, and considerahle ts to ing plowed up in consequence. Thia wonld indieatet a possible shortare of both hay and pasture, All classes of live stock are oringing record prices, and the gueation still uow to lower the cost of living" is young porkered. The prompective orop of later affect the market on this oom: modity. No increase in numbers of eattle or theep in Eight-- - . W.
APPIN MDDLESEX Co. ONT
APPIN, May 12 -- Seeding was complet hegun, though this will not be generas for a week at least, Weather continues very dry. Grass and spring eont are
making no headway. Rain is her making no headway, Rain is badly needed The heavy froet of 9 th and Ith has
done much damage to fruit. elover and barley. It is too early to figare damages Barley. It is too early to firure damages.
The promise for fruit before frost was
good.-C.M. M. MANITOBA
MAROUETTR DIST. MAN,
KELLOE, Stay 16.- Thongh spring work
etarted about April 20th. which is early, atarted about April 20th. Which is early,
there has been very little growth as yet.
Wheat is int berinniter Wheat is just beginning to show through
the ground. The water is very high in
the sloughu, and all the low the sloughs, and alt the low lying parte
of the working land are very wet
50 per 50 per cent of the oate hery wet. About Grain prioes were vory low all winter, bui Prices for live stock are splendile now hoge are seling from 88 to 88.25 : Live
from 85.50 to 86.50 Prien Pride from 85.50 to 86.50 . Prices are also good for dairy produce. Farmers are gotting are eelling at milk at the station. Egen
EL. J. N.

NEW CANADIAN RECORD.
Netherland Faforit, No. 14.766, owned by
W. H. Cherry, Garnet, Ont W. H. Cherry, Garnet, Ont, has ewneblish.
nd a new Canadian Record for 30 days
 of butter. In 14 days. 863.5 ibs. of milk,
y. 166 lbs , of fat and 42.7 its.
Fno For 30 days hat and 42.7 lbs. of buitter,
 champion as follows. "My heifer will be three years old on
June 17 . She freshened at one year and nine months and again at two yene year tert 14 days after freahen sommenoed her 20.42 lbs of butter the firgo. week, over
21 the seond waek, and 21.65 lhe, the third week. Her lowest test was 3.5 and her
bighest 5.2 per oent. fat. Her best third millis was 67 lbs. on the socond laat day of was anything ber cent, mayik. Derformance fat, just in normal con.
ONTARIO CROPS.
May in summed up by the Ontario it partment of Agriculture as followe
Fall What Fall Wheat: This Grop wintored notwithatanding the light protection of
Gnow and the crop is moat proming en sinow and the erop is moet promising exed land.
pince and in mont of the Lake Ontario Counties, elover has done well Ontario more Enatern part much of the orod has late pasturing was responaible for poor nelds of both elover and alfalfa. as usual and many fields are somewha patohy. Alfalfa has done beet on well Vegetation: Grass made a good start
in the early seanon but litle grom sinoe In the early seaeon but litile growth ginoe
May bth and pastures are now only about
ordinary. Fruit: Orchards promised eplendidls early in the season but serere frost between May 7 and 11 set the crop baok somewhat Early strawberries were badly nipped In the Lake Shore country fruit trees sus
tained comparatively little harm, the or tained oomparatively little harm, the or chards, however, inland were injured to least and plums and cherrioe the most. Tent caterpillara are unuaually prevalent in the Eastern half of the Province. Fodder Supplies: Fodder is abundant tity of straw on hand. Spring sowine in well advanced. All spring, grains have been gotten in. As a general rule the soil worked well, More


WEDNESDAY, JUNE 4th, 1913
Beginning at 1.30 p.m. Sharp
The Farm ann be reached by M.C.R. or Q.T.R. to Aylmer, Ont., or M.C.R
Bpringfeld. Ont., trom which acoommodation will be arranged to meet chnoers on the arrival of traing and driven thence to arranged to meet pur Everything advertised to be sold, as proprietor has had poor health and
giving up dairying. SEND FOR CATALOGUE

Here Is Opportunity ! ! ! For you to change over to the very best and get away from


You can buy me-A Proven Sire.
Tm a WHOLE Herd"-Velstra Triumph.
YOU ARE SURE TO GAIN :! !
Time, Koney, Bnergy and Opportunity for Suocese by getting away from
ordinary cowi and getting the very beat like Velstra Triumph De Kol a


## COME ! DISPEEASTION SALE <br> ON THURSDAY, JUNE 12th, 1915

 make the money, Holstein breeding businese right. "It's the GOOD one that Mamma and the reat of this great family of Holntein-Friesian oattle. The seed time will be over. Your work will all be oaught ap. there an object-lesson from this at the of ale your fellow breoder and gri there an object-lesson from this sale of a great BREBDER's herdWrite for catalogue. Got to Belleville. We'ti be there to meet mon welcome, Bayl Yon can't afford to mins THIS onet Jur and GEO. W. ANDERSON, Prop., ROSSMORE, Ont. Norman montgomery, Auctioneer G. A. brethen, Seles Manaze


All readers of Farm and Dairy, Interent.
ed in Holetelns, will toke special delight


 Haley Brow. Holateins at spingford, and
Gordon 8 . Gooderbam. $\%$ at the Man.
Farm, Bedford Park, Ont. There will bis. ormer important Hoistecin materer will be in
othe iswo that will be of unusual interest. PRogressing
RAPIDLY
HOLSTEINS It wne the pleasure of one of the editors
of Yarm and Dairy lane week to epend na
hour on the farm of Mr, Jacen Mon hour on tho farm of Mrk to epend an
Hacom, Mogk,
Taristook, Ont. and inspect his Holetelns.
 most fortunate. .n evecuring heifer ealves
from bis first took
 hia grado fatthe. He Ho now hand is using on
hred Hostain fomales, and in khort pure. tred Holstein fomales, and in short order
meny antiofinato having a substantial big
herd. Pue bred and grade Shorthorns we
Mo Xopkiy tavorius until he got the Ho
iteta ciattle He thad good ateta cattle. He fad good ones too,
maty bu reckoned from the superior ty
and quality of the
 ae they ean be conveniently replaced wlyt
Hoimens Mr Mogk spent a lot of money ing traviuage around to sales and in visit-
 miles from his home, hand bonly, a fewr
the stook for the foundation of this here mina hartog De Kol, a refleetod in Pud.
Mr. Bollert over 17,560 , lbu, as thich gave old and now appears rood enough to to
make 20,000 libe, in a year under proper iste. This cow is now six years old. Sheper of au belug a machine of would spolk
low down and etraight and of great onpe.


 monthe there being only eleven months
between her two ealves. it ia not to

 had of the llit y years ahe stood at the
of Performance. Canada in the Record Space ayaiabile does not permit us to
mate individual mention of all of Mr
Mogki dol
 carrying ealvert two yeare ago were
has brought the herd in ingerace since Moven, and thoy are exoillent catte. Mr a ernat imported bull, King an intereet in
gerreld, about which our readers Hen
 ceres untortunate in the Holinteins. We the
weround on the morning he was not mo could not mot motng of our oall, and font cood caretwiker, him thit whar. He Hith his excel being (and coming every) appoarance of
duoers. he ha ducera, he la sure to bo heard from and
moet favorably in the yeara to come.
The oguing The equipment on Mr, Mortis some. silas, fairly modern has two large eement
ried, otc, eto, All thinge about liter oar
 provements extended German; the im
cement walk through the barnyan neat neoting the housough the barnyard oon
has a new Ford aith the stablee. He takes apectal delight. CAMpBELLTOWN HOLSTEINS VISITED and Dwark was of the editors of Farm

 moet what who is about to take to the
 new herd . Brosth. Beveral others for this I. II. and M. Inspected Haley at Bprigetord, both In these days when Bredt. yet many good
 from Mr, Kelly's there will bo mainly
roug stufl left. Thero will be, however,
Netherland De Kol Glenice, bis deen
 thees two eows being rechoned of note. Mr .
Kelly na amongat his beet in the way out of Glenice. He hat two daughters Oumpbellownes, hane of thess, Gling mado 25 Gice of
in two weeks before butter old. The weoks before she was two years
Othe oow Mr. Keily got at Mr.
 herself eredit with sitrong company in
the show ring. We noticed several most promieng two-
yearolde reoently freshed and whing 3 , Kolly is milking three timee a day carry:
inf them along until he can teat them
ofically in an turn them to weod or two until he oan
stock was all over on Xars. Wilbur Pearling
spoumes Farm, and bence we did not see it. Mr.
Kelly is Working Mr. Prouso's farm this summer, thif giving him all told 360 acres got to Mr. Kelly' in the day when we
opportunity wot bave the given hin cattle more thorough inspeotion
nor to have toll nor to have taken the photographs that
would have been interestins to place be fore "Our People." In the early morning
we did manage to one superlor oow, tyvigat photograph of
best. This one we will publish Kelly'd and Dairy nert week. Dubush in Farm calvea In Mr. Kelly's herd, in moat of the
dylie Veeman Porn great bull, Bir Korndyke Pontiac Brom the
and a 20 lb . of a 29.80 lb . Junior two-year-old daughter aire hise 20 A. R.O. elaters. This young of which have made oover 20 two thind
With
Hest calf. Mr. Kelly, imported this bull
He is pood ind tion of some of our randers the informa be able to trace the breeding it way not Kellye bull is by Pontine, Artia, of be be
ing the dam of Mr. Hards, Che Avondale farm, KIng Preat bull a
Conada. Mr. Kelly has 10 denghtiac Arti this young sire. and they are a grand fot
nearly all being white in ael a young aire by a Indy Aggie De Kol bull ater is a very atrong individual, and
with sueh good baeking ang appear that Mr. Kelly is well advioed in on the stock from his imported bull
Mr. Kelly's first herd bull was sir Mer one making 25.57 nine A. A.O.O. daughters
years; of this bull aro now and in Mr . Rell danghter
The Camploell North Broadway, right is eltnated on the town of TMinonburg thin being very pasy of acoeen to visitors, Mr. Kelly has
been hreeding Holateins einee nine yeara ago. His motto ini "Bvery animal we re prewnted or money pefunded. We do
that liemen we can to help others to help We'll have more to sav abr ut Mr . Kelly
and his eattle another time and his eattle another time. His exper "nandpoint of the fact that he from the acre farm some years ago beause
found it too small, and it had all of h found it too small, and it had all of his
enpital tied mp In the land: then ho puit
his money into purebred Folnteln ontil his money into pure-bred Holatein cattle be eleaper to rent than to buy, and aa he
mays. "For a poor man like I am, money is worth far more as capital to ron a farm in order to own the farm. ${ }^{\text {fin }}$ Mr. more remarkable this conneotion are the has a family of six, two pirla and fonr boys, the oldeet
being probably 16 and the youngest three or four years.
RFCORDS AND PHOTOGRAPHS WANTED The Holstin- Friesian Aseoclation in dea dozen of the best reconds made by a herd of grade Holsteing in Canada. The
average produetion of milik and butter by the cows of the herd should be biven, and the net profit if possible. Owners of first class grade herde, or other persone fami-
lar with the facts, will eonfer a favor by ending all particulars to the Seoretary George, Ont. Records of individual grade cows of unumal excellence will also be
glndly received. gledly received.
The Becretary reoeive from will also be pleased typieal pure-bred animals. Bealdes photograplity of having a collection of the tion, there is quite a demand for thee
for illuatration purposes which the sec
petary io called upon to meet.


## EVERGREEN STOCK FARM

## High Class Registered Holsteins

We fiod that we have more stock than we have pasture for and have decided to Offer For Sale

4 Three-year-old Cows, 3 milking and $t$ to colve in June
5 Tho-year-old Oown, milking.
${ }_{1}$ Heifer Calves, from 1 month to nine monthe champion miling four mear-old cow in Canada. ${ }^{15}$ mold whose dam in the 1 Bull Caif. 6 months old, from a zey/lb, $3-y$ r.old. light Butter Girl, grand champion in mills a daut at Guelph of at 3 yeares of StarThese boll calves are all These bull calves are all aired by Prince Abbekerk Mercena. whose
daughters are equa! to the best protuce The abre
The above cattle are all good individuals and will be sold worth the
noney. Terms to sult the purchasers.
A. E. HULET, R. R. No. 2, NORWICH, ONT.


HET LOO STOCK FARM


## HET LOO STOCK FARM, VAUDREUIL, QUE.

GORDON H. MANHARD, Manager

## FAIRVIEW FARMS HERD




## TELEGRAMS AND LETTERS FROM COAST TO COAST

Bedford Park, P.O., Ont.,
May 14th, 1913

Chas. C. Nixon, Advt. Mgr. Farm and Dairy,<br>Peterboro, Ont.

Dear Sir:-
It is only right that you should know of the telegrams and letters from coast to coast which came in to me asking me to re-
serve those two bull calves as advertised recently in my space in Farm and Dairy. I cou
sample :
Summeroide, P.E.I., March 17th, 1913 . "Regarding the ball calf King
Pontiao Bylvia you advertise in Farm and Dais it
 mold him, will you guarantee he will stand the tuberenlin not tept? and
healthy in every reeppetp And would you keep him till May tot, tois? At this time of year the weather is rather eold to shit him may the 1913 ?
much longor than in May."-Leanord J. Plokering.

Canadian pacific night lettergram
Dewdney. B.O., May
showing relationiship to "Eend extended pedigree of colf Advertised
Spring Farm Pontiae Later reeording her performance. If I am eatiafled with this extended pedigroes, wit wire coash and your can express galf. Keep this open for me because it may mean
new market for you "-Gardom.

## LEtTER FOLLOWING ANOTHER TELEGRAM

Shubenacadie, N.S., May 5, 1913. "Am telegraphing this morning in order that 1 may not again be too late. You will kidindy Frite at once
leting me know whether you have sold the bull oalf out of Meroena of Campbelltown, 23.57 libs. butter as a threceyear old I I Will forward the
cash immediately on hearing from you if 1 am to have it."-W. I. Etter. I have been criticised by some Holstein breeders for selling those two
butls at so tow a price, only $\$ 150$ ench. They were ensily worth tos ench bulls at so low a price, only $\$ 150$ each. They were easily worth $\$ 30{ }^{2}$ each
and more. I wanted them to go out as a real good advertisement for the Manor Farm, same ns all the stuff I sell - prtced roasonably so that it
will make the buyer money,

While 1 price almost any
resent anything definite to sell. the Pontiacs, my dreat herd bull (brother of Spring Parm Pontliceld of 4.152 Ins, butter in 7 days; int Ibs. in ther of Spring Parm Pontiac Lass, no wonder, she being a daukhter of King of, the Pontince, the world and
sire ever known) is now $\$ 160$ TO AP APPROVED COws ONL

## GORDON S. GOODERHAM

The Manor Farm
Bedford Park, P.O., Ont,



The Most Complete Line of Farm, Dairy and Cheese Factory Supplies in Canada "TheDeLaval Line"

of dairy, creamery, cheese factory and farm supplies is by far the largest and most complete in Canada. Only equipment and supplies of the highest grade are handled.

Milk dealers, creamerymen, cheesemakers and dairy farmers must have modern equipment of the very best grade in order to secure the largest margin of profit and to maintain and hold the confidence of their customers.
Users of De Laval supplies and equipment are offered a higher grade product, insuring economical operation and better prices for their product.

We have just issued new and complete catalogs covering our various lines and we shall be pleased to mail you a catalog covering whatever supplies you may require. We have also issued a new cream separator catalog, illustrating and describing all the latest De Laval improvements. This is by far the most attractive cream separator catalog ever printed and copy will gladly be mailed to any cow ownet upon request.
De Laval Dairy Supply Co. Limited
 MONTREAL PETERBORO WinNipeg vancouver



[^0]:    Poisoned apray for codling worm.

