

## $\left(\frac{A}{1} \cdot \sqrt{2} \cdot(\cdots) \cdot()^{2}\right)$

## A Typical Recommendation

Dear sing, Juat a few linee to let you know that I am de in hed with my ButK milker Mr. Huriburt took \&reat paine

The coms are ratting 0 ame
on't need to do gotting mo necultomed the wilher now that it memiker: haven't had any troubbio po sot with them to enjoy 1 goe thorougri's acquainted with the milker 1 ehall put on an other pail.
 I tell you the milker has oerta nly done all you elaimed it
would. Wishing you all suceem, Your truly.

FRED TRIM
BROTHER FARMER: Let us save you all the old-time drudgery you now have in milking your cows by hand. Our B-L-K Mechanical Milker will not cost you so very much. I'll make money for you.

Send us a ruygh sketch of your stable. Tell is how riany cows you milk, whether or not you have power avaitable, or will require power, and ne'll give you an estimate of just what it will cost to have a B-L-K Milker in your stable to milk all of your cows and save you the hard work of hand milking.

Booklet describing all sent free on request, a/so booklets desoribing our large-capacity, low-down, easy-turning "Simptex" Cream Separators, one of which it will pay you to have.

# D. Derbyshire \& Co. 

Head Office and Works, Brockville, ONT. BRANCHES: PETERBORO, ONT

We want Agents in a few Unrepresented Districts


## shall. We go back to the fat hog?

T$\checkmark \mathrm{HE}$ continued prosperity of the swine industry cannot be maintained by the efforts of the farmers themselves. As the industry in the early days required and received the substantial support of the packers of that time it still requires, on their part, active cooperation This in the last few years, the packers have failed to give and, as a resnit, our export bacon industry is falling off at an alarming rate.
In 1908 Canada exported $95,945,099$
poands of pork pro poands of pork pro, pets, while in the
same year We in forte 16.204 same year we in forted $16,224,414$
pounds, or, in other words, we export pounds, or, in other words, we export-
ed that year five and three-part times as much as we imported. In the nine months of 1911, after April 1, our exports were $48,446,675$ poinds as against $13,165,786$ pounds imported.
These figures show that we exported three and one-half times as much as we imported. At this rate Canada will soon not be raising enough pork for her own requirements.
the ascon hoo comtioisk
In onr efforta to please and satisfy the packers we have developed throus hout Canada the lean, fine grained "Singer" that is a hard feeder and an unprofitable hog compared to the old-fashioned thick fats. And what thanks or return are we getting from the packers for doing away with from the packers for doing away with
the old-fashioned easy-fecder for this the old-fashioned easy-feeder for this
slab-sided, lean, bacon hog? The syy-slab-sided, lean, bacon hog? The sys-
tems of buying, on the part of the tems of baying, on the part of the
packers, do not tend to stimulate the packers, do not tend to stimulate the
production and breeding of this bacon hog. They pay no premium on this so-called baoon hog over the lard hog.
While packers, like other business men, cannot be expeeted to conduct their business at a loss, it would seem to be wise on their part not to take advantage of liberal supplies, as they do at prosent, to make an undue profit, a policy which cannot but result in discouraging hog-raisers who would like to continue in the industry, but find it unprofitable to do so. Such a policy creates a condition that is unprofitable to the producer as well as a hardship to the oonsumer, to say nothing of the partial idleness which at times it brings about in the packing industry.

PACKERS PABT AND PREBENT The pioneer packers in Canada showed a generous spifit towards the industry. The packers of the present
day have sought only their day have sought only their own immediate interests, and in looking out for these, have undoubtedly underestimated the intolligence of the Canadian farmer.
The pioneer packers did everything to encourage breeding the hog they wanted, and most of them made special importations of these hogs distributing them to farmers at low cost. For the progeny of these logs they gave diseriminatory prices. The hogs on sale were classified, and the bacon type, from their standpoint, fetched, one-half cent to three-quarter cent above the old-fashioned thick fat. Not so today. There is no classification. The rough, thick fat hog, if he is but of the required weight, fetches as much as the "ideal bocon type."
shall wa hatuan to pat hob?
Why, then, should farmers continue to breed the bacon hog, as repree ented by our Improved Yorkshires and Tamworthsp Every feeder knows that those hogs are harder to feed than those types and breeds of hogs of 20 years ago. Twenty years, ago We had no "Improved Yorkshires" nor "Tamworths." We had a breed of "Yorkshires" but these were of an entirely different type and conformation to the Improved Yorkshires of today. They were not slab-sided,
tall, narrow-backed, creatures as are these of sows and boars did not grow enormous size of the presen Yorkshire.
Then we had the easy-kept. fed Berkshire. While we still number of these fine blacks, $s$ numbers bre not in proportion others for the reason that the pill ers did not encourage their breedind Breeders have endeavored to type of Berkshire that would med equirements of the packer and doing, have ruinige, in a measure inherent qualities of this fine br Chester Whites used to be a compl breed years ago, also Essex. these are bred today. These wew ersy feeders, did not grow to mat ity to an enormous size and wero. fitable hogs.
bxpraticnital midence ubkless The experimental stations worked in cooperation with the ers against the direct interest farmer in the conducting feeding test. They endeavored show that Tamworths and Impro Yorkshires were as cheaply raised Berkshires, Chester Whites, Dur Jerseys and Essex. Any farmer has fed hogs of the various brem knows different. No farmer to feed his hogs in the manner stations. Under ideal conditions doubt, the Improved Yorkshire Tamworth will make gains as chas Tamworth will make gains as chas
as the Berkshire, Chester Wh as the Berkshire, Chester Why Duroc-Jersey, and other fat ty/)
but how many farmers can have hogs bred, kept and fed under the ideal conditions, which are exveery to obtain at the Experimental tions? Very few.
The farmers of Canada threw awn and "cash into the fire"" as it wn their good old profitable breeds hogs, and adopted instead the proved Yorkshire and Tamworth. peoting to reap a big reward. It
resulted in a boomerang for the resulted in a boomerang for the fis ors. A farmer should not be a upon to maintain a big sow weigh 500 to 600 pounds the year round produce pigs to weigh 200 pound sale, when a smalior animal can the work as well and at a much cost of maintenanoe.
oo mack twenty tear
The moral for farmus, then discard those bacon breeds, a proved Yorkshires and Tamwort and return to the breeds of 20 ya ago. It cannot injure our ent falling because our export trace failing away by "leaps and boun! anyway.

If the packers, however, wish fut ers to retain these bacon breeds, it must be prepared to pay a prenif as they used to do in the piot days. It is up to the packery if ti costly pork, are to remain.

## Why Drill Seeders are Ber

I. H. Grisdale, B. Agr., Ottana,

Seeding is now rarely done by It is, however, in too many distr still done broadcast, that is, what known as brohdeast seeders Sueh seeders are not nearly so factory as drill seeders. Much of sed is in ufficiently covered, while other part is buried too deeply. sequently it comses ap unuven anevenly, ripens unevenly, a is thus considerable loss at ham ing, to asy nothing of the seed by being buried too deeply ing insufficiently covered.
The hoe drill and the single diee the best seeders, and of thew, I lieve the single dise to be the ble

## Issued

## Vol, XXXII.

How The Far
Can Their Methds b ference

"Win Ameri been tellin
vements made? mett mymakat ow, for instance, padian West hope to must pay 12 pe ey that they must is not always so lom less than eigh or would the farme ow money on such years of annual payn t. of the principal both principal and is on which Europe rerative credit unio some method of rican conditions wa 's discussion by the ent at the Confenen erbert Myrick, of N ral farm papers anc is on rural coopera sant picture of what
or the American fan for the American fan
that through a coope German land banks,

Issued

## How the farmers of europe secure money at a low rate of interest

## Can Their Methds be Adopted by the Farmers of America? This Question Discussed at the Great Conference at Chicago, at which Farm and Dairy was the Only Farm Paper in Eastern Canada Represented.

Win America have started at the wrong end of farm improvements. We have been telling ourselves that practical agricultural education must always take first place Many speakers at this Conference have taken such a stand. They have told us that good farming methods are the basis of all progress, and that if we farm well we will not need to forry about interest rates. As I study the history of agriculture in Europe I find that cheaper Suney came first and itaprovements in agriture followed as a consequence." In these ords did Prof. McPherson, of the Or gon Ag. cultural College, emphasize the fact that the
lestion of farm credits, which came up for stion of farm credits, which came up for sideration on the last day of the National merehoe on Marketing and Farm Credits, held
Chicago recently, was not a small issue in at Chicago recently, was not a small is
American agriculture, but a great one.
perican agriculture, but a great one.
Farming is becoming more and more
talistic business. When our forefathers a capaway the forests they lived forefathers cleared The most of their farm implements even made at home, or at the neighboring blackh shop. Their need for credit was small. To, however, the average farm represents an estment of thousands of dollars where the farmer's credit requiresented hundreds, and farmer's credit requirements have increased even greater proportion. There is hardly a found is expedient to borrow some time or found iv expedient to borrow money. But
is the use of borrowing money for imvements of one kind or another when the inest rate is so high as to absorb the gneater of the financial benefit derived from the rovements made?

> Hoar infrrast kHLLS proankss for instance
low, for instance, can the farmers of the
padian West hope to get along very fast when aadian West hope to get along very fast when must pay 12 per cent. interest on the rey that they must borrow? Of course the is not always so high as this, but it is lom less than eight per cent. How much er would the farmer get along if he could row money on such terms that at the end of $t$. of the principal sum he six to seven per t. of the principal sum he would have paid
both principal and interest. These are the tos on which European farmers, through their perative credit unions, borrow, money. To some method of applying this system to erican conditions was the object of a full 's discussion by the 415 delegates who were
sent at the Confencice. sent at the Conference.
lerbert Myrick, of New York, a publisher of eral farm papers and the author of several ks on rural cooperation, held out a moet for the Amere of what cooperative credit might for the American farmer. He stated his bethat through a cooperative system : sin ${ }^{-1} \mathrm{r}$ to German land banks, which wilh be described a debt could be paid off in twenty yeazs on
annual payments not greater than the annual average interest. For the accommodation of the farmer desiring short time loans, Mr. Myrick recommended the formation of local banks in which each farmer is interested, in which he would deposit his money, and it in turn would be loaned out to the farmers of the locality according to their trustworthiness and their need. These local banks might in turn affiliate in orer that the surplus cash of one community might mand was greater than supply. auropran systry
Much light on European systems of farm credit was given by Mr. George Woodruff,

## Cheap Money For The Farmer

The Banking Committee of the House of Commons at Ottawa has been taking evl-
dence recently on the operation of the oanadian reanking sy the operation of the canadian Banking system as it affeets the
various olasses of the community, one various olasses of the community, One fact seems to have been cleariy established -that Canadian banks do not wish to loan money In smalt sums to farmers, In the West Canadian Banks have eharges as
high as 10 to 12 per high as 10 to 12 per cent. Interest on short loans, and the average rate is over eight per oent. such high rates are a stumbing fevelopment. The of the best agrioultural in the United statos ane oonditions exist oan the farmers of the two canada. How oure oheaper money? two countries se-

This was one of
dispussion at the "First questions up for enee on Markets and Farm Credtit ConferChicago reoently. Ameng Credits" hold at gates to the Confersmong the 415 delehad spent years conference were those who oredit problem. In the adjoining artiol an editor of Farm and Dairy, the only farm paper In Eastern Ganada represonted farm the Conference, tells of the disoussions that took place and of the plans adyongens by the several speakers, whereby the farmor, through oooperation, may seoure money at rates eonsiderably lower than those now ruling in Canada and the United States.

President of the First National Bank of Joliet, III. He divided the various credit systems of the old countries into two classes, the long time, or mortgage loan associations, and the short time societies doing business on persona! credit. Of the first class be cited the Credit Foncier, of France, as an example. The Credit Foncier is owned by private individuals as a joint stock company, but is supervised by the government and the highest official in the bank is a government appointee. This association loans money only on real estate security and only on the amortization plan. To illustrate: A farmer comes to the local branch of the Credit Foncier and wants 1000 francs, the payments to extend over 30 years. At the present
time the interest on money borrowed from this association is $\mathbf{4 . 3}$ per cent. Instead, however, of paying 4.3 per cent, each year the borrower agrees to pay 5.864 per cent. At the sind of 30 years the difference between 4.3 and 5.964 has paid off the principal and the farmer is free of debt. That is, by paying an annuity not greater farmer pays off both principal this country the farmer pays off both principal and interest.
lona tiag loans the best
Long time loans are the rule in older counfries, and a loan is more apt to be taken out for 75 years than for 30 years. One advantage of these long time loans is that it relieves the farmer and his family all worry. The ordinary loan soon expires and the farmer may look forward with dread to that date. He is ever in
fear of foreclosure. The French farmer, how fear of foreclosure. The French farmer, however, knows that so long as he makes his small annual payment his home is safe and his debt
getting less and less.
The Credit Foncier Joans money on first mortgages only, ahd up to 50 per cent. of the value of
the property. The property must be income producing, soil conservation must be income producing, soil conservation clauses are inserted
in the mortgage and mines, quarries, etc., are excluded.- As each little branch of the Credit Foncier does business only in a limited neighborhood, practically every toan is a safe one. ten out and sold, and the mortgages are gotcollateral to the bonds. And, as we all know, bonds can be sold at a. lower rate of interest than any other form of security.

> LAND RANES OF GBMMANY Ond typo

The second type of mortgage credit associations mentioned by Mr. Woodruff, who has perwhich he spoke, was the Europe the systems of many. This bank differs from the Credit Foncier in that it is cooperatively owned, The land owners of a small section get together and form tion. In many cases ther we banking associaed liability plan; that is ey work on the unlimitsoriation makes all of his real estate responsible for the debts of the society. Ith some cases all of the land of the province may be thus staked to back the credit of the Landschaften banks. These local banks have affiliated with each other and as they are considered absolutely safe they
secure even lower rates of interest than does the Credit Foncier of France. Here, too, loans are given on the amortization plan, that is, paid off
in small annual installments. in small annual installments.
shont mar acoomyobation
e farmer occasionally neds
But the farmer occasionally needs money for short time loans for Which he does not wish to European farmer has This problem, too, the European farmer has overcome through coopera-
tion, Mr. Woodruff making Reiffeisen and Schultze-Delitrsch Banks of the many, and the Credit Agricole of France Germany, and the Credit Agricole of France. All of the shareholders therein mak cooperative. liable to an unlimited extent for the themselves concem. These banks have very little capital stock. They acoept deposits, as do the ordinary

## How We Grew Reote

## By A. MeCoy, Hastings Co., Ont

 An English neigbhor of ours, whose farming experience previous to his coming to this country had been limited to a potato patch in his city backyard, informed us, after he had bought a farm in the neighborhood, that he intended to sow his grain and grasses in exaetly the same way as

Onee-Pheso of tho Queation Solved



he had been accustomed to grow potatoes, that is, in drills a couple of feet apart. Of course we laughingly told him his mistake, and he took it in good part. He took our well intended advice much better than do many Oanadian-bred farmers here when I start to tell them that they are making a mistake in trying to grow roots according to the same plan that they grow corn. Even as our English neighbor wished to sow his grain wide apart in drills because he had grown potatoes that way, so do the dairy farmers here grow their roots wide apart becalise that is the way they
plant corn.
We should remember that roots take from the soil not quite half as much fertility as does a good orop of corn. Why, therefore, is it neceseary to spread the roots in rows three and one-half feet apart We could plant them in rows 21 inches apart and the drain on the soil would be no greater and the roots would have as good an opportunity of getting a sufficient supply of nutrient from the soil. We grow our roots 22 to 24 inches apart in the $r w$ and get almost twiee the crop that we would did wo waste space planting in rows three and onehalf feet apart.
We like to have our root land plowed the previous fall, disked and ridged. We have heard Prof. Grisdale, of Ottawa, tell of the importance of having-corn land well prepared previous to planting, but it is of vastly more importance to have root land well prepared. The seed is nueh smaller, does not carry the same reserve of food for the young plant and hence the rootlets coming from the seed must find plant food immediately in congenial soil conditions. Hence we diak and drag and roll until we have our soil in the beet condition pasasible. Ocoasionally in wet neasons it may be advisable to ridge up roots, but in nine cases out of 10 on the level is the plan preferred.
A few years ago we had our rovts on a field that we knew was polluted rith weed needs. In sowing this field we followed a plan that gave most excellent satisfaction. The land was well worked early in the spring and then ridged up slightly with a double mould board plow. In a couple of weeks that whole field was green with weeds. We then took our chain harrow (a plank drag would do) and drew it over this ridep lengthwise. The top of the ridge was eut right off, weeds and all, and there we had a weed-free oeed bed. Likewrise the seed bed was moist as the dry earth on the top had been drawn off. We recommend this plan to farmers with particularly weedy fields.
We find that a combination of mangles and turnips is the easier to handle. We get our manglee
is as early in the meason as soil conditions will permit, while the turnip seeping comes after the first great rush is over. Similarly the thinning of the two, which must be done ty hand, does not conflict, the mangles being thinned first to one plant in every 15 inches and the turnips to the same distance at a later date. In harvesting also the mangles and turnips do not conflict, in factthe turnips can be left out till almost any date.

## The Place for Roots

## L. MceGuirr, Norfolk Co, Ont

When I state that no dairy farmer ahoul y ail to derote a small acreage to roots, I have fo my
authority the best cattle feeders in the world the authority the best cattle feeders in the world the Linglish and the Scoteh. Practically all of vhe great breeds of beof cattle and one of the greatest breeds of dairy cattle come from the British Isles. Here in our owa country the herdmen in many of our best dairy herds are men who loarned their business in the Old Land, And they are all strong on roots. I have talked at fairs, salos and elsewhere with aome of our Canadien breeders of Holsteins whe are making these amashing big records that seem almout past belief, and I find that they all feed roots in preferenco to ensilage during the test. Our own Norfolk county Mason, who recently mado a World's Record with his Wonderful two-year-old heifer, places great liance on manglee during the record-mat period. Mr. Dollar, of New York State, I
Editor, Farm and Dairy, -1 have read the
special Dairy number of "Farm and
Dairy" with much ploasure and pront. I
oengratuitate you upon the axcellonoe of
thie produation. If Is a orelli to both the
Editor and Publishers. Suoh numbers
must be of great benent to the Dumbers ins.
dustry, it wieh younent to the Dairy in-
$\begin{aligned} & \text { your work,-Prof. H. H. Doan, O. A. O., } \\ & \text { Cuetph, Ont. }\end{aligned}$
told, always feeds mangles to cows under test. What is good for these big fellows is just ns good for us little fellows whose income comes from the milk ehequa and not the price of pure-bred
stock. stock.
I myself grow both roote and corn, principally the latter. From my own experience I have
found that I can got just about twiee as much food value from an acre of corn as from an acre of roota, and ton for ton the corn costs less to produce. The basis of my ration, therefore, is ensilage. The roots, however, play a most im portant part in rendering the ration more palstable bepause of their sucoulenee, and they are very
valuable as valuable as an conditionative. I always notice that if the roots run out and the cows are confined to ensilage alone, that the akin and hair are harraher and the digestive organs do not work so readily. We grow rosts and corn in the proportion of one acre of the former to five of the latter.
For the milch cows we profer the mangles, as For the milch ows we prefer the mangles, as We believe the turnips taste the milk. Likewise the mangles are a little richer in sugar and hence a better milk producing food. The turnips, however, are easier to produce aidd we like to have some of them on hand for the young stock. Root fed heifer calves are sappy, growing creatures that will out-distance the ensilage fed ealves every
time. time.
Why do boys leave Ontario Farms? Let me give my suggestion. Here is a young follow just starting out. He has $\$ 1,000$ eash to invest in land. Ho has onough besides to buy stock and tools. His cash will pay for 10 or 15 acres in Ontario. It will get him 160 acteo in the West, The land is equally productive in both cases. Where will he gop Do I make myeolf plain P-L, K. Shaw, Welland Oo., Ont.

## Feed-Our Weakest Point By "Herdsman" "Breed, Feed and Weed." Suech is the tloga

 that has been dinned into our ears fry gencration noir by all educationiste along the stock breed ing lise-and it is a wise and good saying sometimes wonder if ue fully appreciaie the tive valuess of these thrs factore in herdment. I have scen many who bsieved ment. I have scen many who bilieved weeding out the poorest animals in their bey they were doing the r,opt effectual work pookill to produce more milk or better beef. I have kes othere tho believed that if their stook had the right ancestry tL. \& they would hare ne ed the problem of large and economical tion. In my own opinion, while we cannot t along without all three factors, the feeding the most important and the one on which the $n$ of us fall down.
The basis of all production, be it of mille, be pork or horse flesh, is a strong, well formed bof While the desirability of an animal's bods, conformation and type, dejend to some extent heredity, it deponds more on good feeding. old councriy vapmas ten mest
Why is it that Great Britain and France ber attained a far greater deyree of perfection in breeding of live stock thun we have? that they had a longer start in which to
desirable foundation atock, they are otill desirable foundation stock, they aro still nil ahead of us here in America. I believe the planation in in the feeding. Even among pure bred stockmen, hero in Canada, I find most lamentable ignorance of the feeding lem. I have actually seen Holstein breeders
the best bred atock obtained, who did not the relative atlock obtained, who did not hay the relative values of cotton seed meal, line
meal and bran, and whose whole ideas seemel be to produce as much milk on pasture grasess summer as possible, and to winter their animy on as little feed as would keep them alive.
ever heard of Old Country breeders trying to ter their cattle on roughagee alonsof trying to m ter their cattle on roughago alone? country stock man knows that he mast feed phy young stoek, in order to develop good body vitality.
The most noticeable result of this liberal fexier to Old Country stock is to bo seen in the has that are brought to this country. It is very, te seldom that a Oanadian-bred animal is able to
over an imported one in the show A Ang, even


What Kind of a Contest is Thio?

 Oxtordabito Aerricultural shbow. the breeding is exnactly the asme. The d I believe, comes largely in the feeding.
We need to revise our ideas on this f eubject. If we have faith in the profit-mali properties of our animale wo should have faith their ability to pay for the extra grain feelf that in neccesary. When we come to realimet feeding is our we
for improvement.

## Styles of Harrows Discused

 J. H. Grisdale, B. Agr, Ottawa, Ont.Harrowing is an operation usually very badly performed, and an operation that is almost alwayna ended up sometime before it should be on any given ares. Good plowing is a necessary condi tion of the best crop results, but thorough harrowing is an indispensable condition of profitable erop returns from any field. Thorough harrowing does not necesssrily mean three or four or 10 different harrowings, but it means such treatment as leaves the surface of the seed bed smooth and friable, and leaves the bottom of the seed biE firm and solld. Until these nonditions are fu? filled the harrow should not stop.
A great variety of implements have been derised and put on the market wherewith to perform the operation common known as harrowing. of all these implements, the dise harrow is probably the most generally useful and the most effective in the work of preparing the soil for seed after it has been plowed. The larger the dise and the more acute the angle at which it is set in operation, the more effectively will it work. To insure good work, however, with a large sharp-set diso, rolling is necessary in order to crush the soil down that it may remain in place when being carved by the dise.


## A Faster Way than the Old One and Mreh Easier on the Back


 ande. Yort Co., may Ge here soen mounted on a maehine that opens the drill, dropm the
and then oovers It. Some machines even out the sed. With the advent of maehinery
suoh an this. potatoes ehould beoome a more popular erop among the farmers

A NEW BTYLE OF Disc Harrow
A new dise harrow, known as the Double Cutaway, has recontly made its appearance, and has proved to be a most exeellent implement. It consists of two disc harrows, one in front of the other, cutting, the one with an inthrow and the other with an outthrow; the dises are so placed as to prevent their running in the snme track, hence a much more thorough outting up of the surface soil is insured. Considerably more power is necessary to operate this dise than in the ease of a single dise. It is, however, an implement capable of materially reducing the cost of preparing the soil for seed after the land is plowed.

The spring tooth harrow is an implement that cannot be too strongly condemned, where used, as is commonly the case, on sod land or on rough hard land. This implement tears up the sods, exposes the grans and leaves ani exceedingly rough surface, very certain to give poor results in orop production.

## TO PREPARE sod taND

Where sod land is being prepared for any erop, possibly the best treatment would be about as follows: Roll with a heavy roller, dise harrow lengthwise and crosswise or on the bias ; roll again, diso harrow once more, and then amooth harrow with a common spiketoothed harrow. If, however, it is found that the land is not yet in perfect tilth, then it might be necessary to repeat the dise harrowing and the rolling. In any case, seed should not be sown until the soil is in perfect shape for orop production. It is usually safe to harrow again after conditions seem nearly perfect for seeding.
The spike-toothed harrow may often be run over the land $w^{2}$ the average farmer would consider it utter folly to use it it all, for instance, in the corn field a few days after sowing or planting the corn, and in the same field a few days after the oorn is up. Harrowing the field at such times is almont certain to materially help the orop.
When largo areas of corn are grown, an im-
'Well,' he said to me, 'if you don't want me to give it to yours, Fll give it to mine,' and he gave it to another heifer, which was due to fresken about the same time as the one I was purchasing. 1 found out afterwards that he had a bad case of caked udder to contend with."
We had been discussing with Mr. Brethen the subject of feeding the dairy cow just before and at the time of freshening, and he mentioned this incident during the disoussion. "By feeding cooling and laxative feeds," said Mr. Brethen, "I can put as fine an udder on a oow as you would wish to see, with little or no signs of caking. Several weeks before freshening I use as a grain ration of bran, oilcake meal and a little oats. I wouldn't think of feeding corn or barley-they are too heating. At the same time I out out the ensilage and substitute roots. This may look to some people like getting the thing down rather fine, but when we remember that corn ensilage contains a lot of inature ears we will realize that it
is a somewhat heating food. is a somewhat heating food.
"By feeding the proper foods it is not necessary to reduce the ration at freshening. I feed liberally up to the time of freshening, and then reduce the ration for a few days immediately after. A little judgment in feeding will often save a man a week or two of work and worry with a caked udder."

The sure way to sucoess in hired man management is to remember that he is a human being just as we are.-A. P. G.
position, that by degrees, the age. They will soonn commence to ear at an early shallow troughs aoon cormence to do this if long, deop ones. When this method is followed there will be no radical change at weaning time, and hence the danger of digestive trouble is dessened The weaning process is not completed before the pigs are eight or nine weeks old. By this time they will have received a good start.
The profit or loss will depend largely on the progress then made. I feed liberally with succulent food, such as skim-milk, shorts, roots, ote. A stunted pig is dear as a gift, and one overfed with heavy grain is cqually unprofitable, as it becomes foundered and ceases to muke satisfactory growth.

Time and place for daily exercise should be as regularly provided as feed. When this is done, much of the danger from kicks and other injuries will be eliminated, and the probability of the colts reaching maturity as perfectly sound borses is correspondingly increased.

We have not been in the business long enough to say whether or not high feeding injures dairy cows and decreases their years of usefulness, but so far we have not seen any be; effects from the heavy feeding we practice, nor do we expect to see any so long as we feed a properly balanced ration. It pays us to feed all the cows we can handle properly,-A. MeCres \& Sons, Queen's Co.,
P. E. I.
 The Feeders' Corner


Grain with Roughage
Would you advise mee as to how I should
foed' a oow giving about of lis. milk al
Henry Ford has built more automobiles than any man who ever lived. He knows how. That's the reason he can build "The Universal Car" at a wonderfully low price. Better get yours now if you want a Ford this season.
Our factories, produced nearly a quarter of a million Model T's. Prices : Runabout, $\$ 675$, Touring Car, \$750, Town Car, $\$ 1,000-f . o . b$. Walkerville, Ont , with all equipment. For particulars get "Ford Times"-an interesting automobile magazine. It's free-from Walkerville factory. Ford Motor Company of Canada, Limited.
 foed a oow piving about 4/ lic. milk a
day with bran, oat obiop, oilcake, and
 ration for millk production, if suoh oould
be made of these feeds. Aleo let me know Where 1 oculd get ome inst fotion know to
the analyail and value of fierent feeds
for dairy the a analyis and value of dferent feeds
for dairy cown- $H$. W. 0 . conjunction with the average roughage fed on the farm we would suggest the following mixture of the feeds mentioned by H. W. C.: Bran, four pounds; oats, three pounds ; molassine, three pounds; oilcake meal, three pounds. We presume the roughage contains a good proportion of clover. A cow giving 47 lbs . of milk a day
should receive about 16 lbs, of good should receive about 16 lbs . of good
clover hay and 35 or 40 lbs . of ensilage, in addition to the grain. The substitution of straw or timothy hay for elover would neoessitate an increase in the grain ratio
As a reference book on feed analysia "Fe would strongly recommend Henry's Feeds and Feeding," which can be procured through Farm and Dairy. In a bulletin, No. 138, of the Ontario lot of useful information on the composition of Ontario feeding stuffs. This bulletin may be obtained free of charge by applying to the Ontario Department of Agriculture, Toronto.


## Your Soil Is Alive

$\mathrm{T}^{0}$
all intents and purposes, soil is alive. It breathes, works, rests; it drinks, and, most important It pays its debts, and pays with interest many times compounded. Being alive, to work it must be fed. During the non-growing seasons certain chemical changes take place which make the fertility in the soil available for the next season's crop. But this process adds no plant food to the soil. Unless plant food is added to soil on which crops are grown, unless the soil is fed, in time it starves. There is one best way to feed your soif. Stable manure, which contains all the essentials of plant life, should be spread evenly and in the proper
quantity with an

## I H C Manure Spreader

I H C manure spreaders-Corn King or Cloverleaf-are made in
all styles and sizes. Sizes run from small, natrow orchard and vineyard spreading, to machines of capacity for for ormard The rear axle is placed well under the box, where it carrice over 70 per cent of the load, insuring plenty of tractive power at all times, Beaters are of large diameter to prevent winding. The power at all that cut and pulverize the manure are square and chisel pointed. The apron drive controls the load, insuring even spreading whether the machine is working up or down hill, or on the level. I H C spreaders have a rear axle differential, enabling them to spread evenly when turning corners.
The IHC local agent will show you all their govd points, and literature and full information from him, or, write the nearest branch house

## International Harvester Company of Canada, Ltd

 BRANCH HOUSES
N. Lumbicra (


## Protein in Feeds

Will you publish a table showing the amount of protein, oarbo-hydratee and
fat of the different feeds. How much pro tein should an average cow consume in
The following
tein, carbo-hydrate and fat content of some of the most common feeds :

Digectable Nutrients in 100 Lbs.

human oonsatuption, taking the place of potato flour and dessicated potatoes now on the market. The new product has the advantage of heing much cheaper. For stook feeding, the increasod digestibility from cooking alnost makes up for the cost of flaking. Over 75 per cent. of the original moisture of the potato is removed. The resultant product is said to b purposes.

## Distribution of Pure Bred Males

Inability to secure the use of wel. bred animale is on of the greatest
difficulties standing hn the way of live stock development in many parts of Canada, particularly in the newly settled districts. The Dominion Department of agriculture, realizing this difficulty, is this year, through the Live Stook Branch, undertaking a widespread distribution of pure The stallions, bulls, rams and boars. The original cost of the animals will be borne by the Department and they will be placed in the hands of suoh local organizations as agree to the conditions governing the distribution. In a word these sires will remain the property of the Department, but the for association will be responsible for their proper maintenance and management under the general super-
vision of officers of the Live Stoel Vision of officers of the Live Stock
Branch. In the case of stallions, the Branch. In the case of stallions, the members of the associations will also be required to pay a fee covering an annual insurance premium.
All animals distributed
bought from home breeders wid we be Canadian bred As far and wi they will be purchased in the province, in which they are to be placed. In this way, Canadian breeders will re ceive encouragement and their marke will be increased not only directly but also indirectly through the em phasis given throughout the country to the value of pure bred sires. It is not the intention to place the animals in distriots where suitable male animals of the same class are already owned by private individuals. The aim is rather to aid sections where pure bred sires are lacking and as well to encourage new communities it following a proper and intelligent sys following a prope
All bulls distributed will be purchased subject to the tuberoulin test and only stallions which hats passed a rigid veterinary inspection for soundness will be selected.
In order to take advantage of thin
orm of assistance, it will be necessary for interested parties, in any section, to undertake the organiaation of a local association, in whose hands such aires $\mathrm{f3}$ are required may be placed. Complete information regarding the rules and regulations governing the distribution may be made upon appli cation to the Live Stoek Commissioner, Ottawa. Whenever possible, an officer of the branch will render assistance in the perfecting of the necessary local organization.
"Parcels post would eat into out business," say the express companies. Isn't that a gocd reason why we farmers should want it?
"Buying in" cows may look good to the supplier of eity milk, but the day is surely coming when he will be sorry that he did not raise his own. It the only sure method of maintainin the producing qualities of a herd.

That bull calf that
30 new subscribers to $\mathbf{v o u}$ offered came last Thursday Farm and D came last Thursday and a fine calf is,-mostly all white with a few d spots on his neck and ears. I thi he will make a very large butl even for a Holstein. R. T. H. Collins,
Prince Edwand Co, Ont

FARM
What to d T. G. Rayno There is al
?ntion as to Sely to poit Torthap phitl speculation $t$ to the prospe mueh depond three million
acres under acrea under
meadow the meadow the
of no inconsi Speculation when $10 e$ ouy
whether or $n$ whether or $\mathbf{n}$
would be smot however, have spring has m dows are prin There may be store for then
forsee. They some extent

An outdoor m
pose of this ar ways for doing CAUsEA Yo In the first causes of thin $n$ seeding process, observed in forn of red clover an seed fco about inches, 12 pounc
only about two only about two
and six pounds and six pounds
about one square ifed by many fa been using to best results. shows any signs tice to sow a litt in the spring as iron harrow. On harrowing will lo stones that will pitehed off or rolle
the ground is sof the ground is sof
mower over it mower over it
hay. It is good p paratively heavy as early in the sp will carry a In meadow
ing is splendid winter often kills with the frost an stools are more o will make a quie are pressed into th way this heaving , son for thin mead In some meade on the sur pockets for a good rreenes and often seeding. Unless th sown, weeds will t

will pay to sow some extra timothy and alsike over these patches.

WHRN arRadows ars moss bound moss bound. This is quite often be moss bound. This is quite often due to insufficient drainage. A thorough harrowing with a aharp toothed harrow or even a disk run over such a meadow at not too much of an angle will pay. Some extra seed and stable manure will also pay.
The kind of seed used may have some influence. One should adapt the kind of grass and clover seed to the If mature of the soil to be seeded. olosely in the weren't pastured too math were left, not and more aftermath were left, not' only would the grass start up more quickly in the spring, but the crop of hay would be much heavier.
This year in seeding new meadows with Ontario grown seed it will pay to use fully one-third more seed than is usual, as much of the seed will not grow or if it does grow, it will prodyce rather weal plants. Let the elover meadows get all started before pasturing and plan to keep some of
the second growth for seed.


Not Yet, But Soen-If Fine Weather Continues

## An outdoor milking scene spapped for Farm and laat summer and Dairy Near Hamilton, Ont.,

ways of this artiole to suggest some ays for doing it,

CAUsEs FOR THIN MEADOWs
causes of thin meadows? I would the causes of thin meadows? I would say first that too little seed is used in the
seeding process. When seeding process. When, as we have observed in former articles, 12 pounds of red clover an acre ouly means one seed for about every two square only about pounds of timothy an acre and six pounds alsike one seed for nbout one square inch, it will be realiked by many farmers that they have been using too little seed to get the beet results. If the 'now meadow shows any signs of this it is good practice to sow a little extra seed as sarly in the spring as the meadow is dry enough to run over it with is dry iron harrow. On stony meadows this harrowing will loosen up many rolling stones that will either have to be pitehed off or rolled in right awey while the ground is soft in order to run a mower over it where intended for hay. It is good practice to use a comparatively heavy roller on all meadowa as early in the spring as the meadow will carry a team without any groat injury to it.
In meadows two years old this rolling is splendid practioe. There the winter often kills elover by heating with the frost and even the timothy stools are more or less raised. They will make a quicker start when they are pressed into the soil. And by the way thie heaving nony be snother reason for thin meadoves.
In some meadows the depressions pockets for a good the field act as pockets for a good deal of water which seeding. Unless these patehes out the sown, weeds will take posseasion. It

## How to Use the Roller

J. H. Grisdale, B. Agr., Ottava, Ont. The roller is commonly looked upon the finimplement wherewith to give point, however, that the just at this gor lies. It is as the greatest dansor lies. It is as an operation after sueding that rolling is, on the average, of least value. There are, of courne, conditions when it is advisable to roll after seeding, but the true value of this implement lies in its usofulness as a means of preparing the land preparatory to seeding, as already mentioned in connection with barrowing.
The uns of the roller in preparing aod land for grain or corn is much to be commended, and it is here that this imploment is of the greatest value to the farmer. In certain soils, as for instance, mucky or peaty soils, it is of ten advisable to roll once or twise before seeding, and two or more times after seeding; this more particularly, if the land is to be seeded down to grase or clover, at the same time as sown to grain.
WHRN BOLLING CONBREVEs MOIBTURE No land should be rolled after seeding if the surface is at all damp. The surface should be allowed to dry a few days before the roller is put on. Rolling in this way a few days or even two or three weeks after the grain is ap, breaks the crust, forms a muleh, and so helps to conserve moisture. On light soils, rolling is an etsential operation after seeding to insure quick germination of both grain and grass seeds. Here again, however, it is often sdvisable to roll a second time two or three weeks after the grain is up. This helps firm the soil and breaks the crust as before stated.

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wnmired fertiliaes of dhe highest grade write
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15
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That's about all you'll get for them. Veal them up or raise them for beef or to replenish your dairy herd. That's the sensible thing and the business-like thing to do.
Keep on selling your whole milk; get the highest price for it you can and raise your calves on

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the best price for it.
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cisely
You can veal up your calves until they are worth something-
Or raise them for beef or to replenish your dairy herd. Or raise them for beef or to replcnish your dairy herd. Caldwelfs Cream Stubstitute Calf-Meal is guaranteed to the Canadian
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It will pay you well to use our Calf-Mcal. Ask your Feedman about it. Or write to us and we'll natail you the facts by return.
N. B.-How is your supply of Molasses Meal?
the caldwell feed co., ltd., dundas, ont.

##  HORTICULTURE <br>  How to Deal With Borers <br> meeee

 F. Metcall, B. \&. A., Dist. Representative, Manitoulin Is,. Ont. Manitoulin Island trees here on Manitoulin Island that hasdone a great deal of damage is the
 Borer. The pres-
ence of Borers in a ence of Borers in a by the lack of
growth and by the growth and by the
presence of saw. dust like gnawings and exerement that are pushed
out from their holes. These may hotes. These may
not be detected until after the damage is all done un-
less the scd is kept away from the base quently a tree. Fre-

## I. F. Metoalf

 quently a tree will before one is aware that Borers are When the workWhen the work of the Borers i noticed the best remedy is to cut very flexible (oopper) wire may a pushed in and they may be killed in that way. There are several ways of preventing this trouble. The idea is to prevent the female beetle from layThe her eggs on the trunk of the tree. and would soon daid any time now
and and would soon develop inte the
Borers which would later on do the damage to the trees. Any preventative treatment must be given now as these treatments would have no effect n the Berers themselves.
A great variety of washes have been used for preventing the female beetles from laying their eggs upon the trees. The following is probably as effective as any that can be safely used without injury to the bark (after having removed all loose bark with a dull hee or scraper)

## Wash rasicy mape

Dissolve one-half gallon of soft soap or five pounds of whale-cil soap in
one-balf gallon of hot water and add a half pint of carbolic acid. When mixed all five gallons of warm water and enough lime to make a whitewash cf about the consistency of paint. Finally, stir in one-fourth pound of paris green. Apply the wash with a stiff and completely, the bark thoroughly and completely, and filling all cracks and crevices. Another application
should be made in should be made in about three weeks. The use of scmething that will not only protect the trees from the at-
tack of the Borers, but also from the tack of the Borers, but also from the heat of the sun, is more useful and parts of trees injured by heat are more liable to the depradations of Borers than the healthy, uninjured Borers than the healthy, uninjured
portions and so anything that will prevent sunscald and will at the same prevent sunscald and will at the same ble benefit to the tree. The fruit grower might take some wood vencer such as is used in basket making, or birchbark, and wrap around the trunk of the tree beginning just below the surface of the ground and extending upwards for about two feet. Bank the base of this up with some soil to prevent the insects getting in that way and fill the top with cotton woel. See that there are no openings along the length of this covering where insects could get in. If applied in the fall this covering would also pretect from mice.
Don't forget to onjoy the company of your flowers. The mornings and evenings are the best hours in the
garden.

Both curranta and Fruit produce their fruit on wood two three, four or frive years wood. The new one year old wood seldom bears much fruit. Wood more than four years old usually grows rather weak and bears usually a grows rather weak and bears enly a sma
rather inferior fruit.
It is generally considered advijal
able to remove all wood from bot able to remove all wood from bot is more than gooseberry bushes that
four years old. Then thin cut the new canes that came up from the ground or near the ground last scason to three or four of the strongest ones, and, 祭解 these back to about twC feet in iength.
If this plan is followed season after season, your gooseberry and currant or four cne year old shoots, the three four two years old, the same number of three year old, and also of four year old branches.


Eliminating the Middleman ing direet with European have been deal thie year that they muat deal with find Canadian seod honses and are objectine strenuously to the prices oharsed for vegetable seed. Mr. W. B. Anderson Peterboro Co, Ont., ia not worried by the middleman's proft, on onions at leart -Photo by He grows his own. and Dairy.

## Pear Scab and its Treatment

Dr.J. B. Dandeno, Durham Co., Ont
Pear Scab is a very serious disense of the pear tree, It ranks, perhaps, twig or fire blight. When pof the gains a food start it When pear scab gains a good start it is exceedingly difficult, if not impossible, to clear it out of the orohard because of certain characteristios which this disease possesses. Apple scab is a relative of the pear acab, having a similar relhtion to it as beets have to mangels Both are fungus parasites. They differ, however, in one important particular, afid a knowledge of this peculiarity is essential to a successful Warfare against the pear soab.
leaves and branches, while the fruit, leaves and branches, while the apple acab attacks only the fruit and the
leaves. The apple scab doe and leaves. The apple scab does not at tack the pear tree, nor does the pear soab attack the apple tree, as many people suppose. Apple scab yields readily to ordinary fungicides, main Iy because it grows upon the surfain and, therefore, can be reached with the spray liquid. Pear soal. worlas the twigs and small branches burrow ing under the bark and wintering over while in this condition. Becanse of this habit the fungicide can not readily be applied directly to the
fungus. Morever, fungus. Moreover, serious damage is done to the twigs and branchas, many of them becoming so "cankered"" by the scab that death is the re sult. Pear scab is common in this locality, and much of the roughened due to it.

> Hor trees which
affected, the diseas in check ly ly spray
sped phur or bordeaux seab, with the add eation after the 1 This should
lime-fulphur, or of solution (not borde wonld il wis In add rould wise to ex. see if tic branches
ed. If they have hould be pruned ou Por trees whose more or less serion
pruning saw is the pruning saw is the
Prune out the wor third of the total to thon next fall, and the ald top the follo this method 60 or 7 orohard may be sav time the orchard sho ed with fungioides the preceding parag
Poar scall gains an branches during th growth when they ar cate. After the cork
ed, entry is made wounds.

When Selectir 4. 6. Stemant, Lin If I mere asked t netrarieties of grape
could chose
them 1) Coneord: e are woolly in will grow on and are good shi Warden: This grape.
Niagara
Grape.
Moore
Moore's Early : d not advise pla Vergennes :
Agawam: A go soil. On heavy ,
Soils for Swee
T. Macoun, C.E.I epsily worked cla kind of soil for sy aally a moist cool s. in potash and phe
the addition of wel the addition of we
manure thorough! manure thorough
ith it, it should to grow very gooc
peas are liable to es peas are liable to
ne if planted in ol ly manured, heno only moderate ary or desiralle. peas in light san a moderate dressin s 'would not be so is no soil availal if no soil availal
losm the surfade heavily mulohed 8 on esch side of lawn elippings durit or better still with
on top of which mas clippings for elean 5 an unfortunate tl industry when we was year before elean without Fruit growora that it is just as
Lord" and they e gain the next year $r$ experience has $b$ time and time ag Dominica Fruit It

For trees which are not seriously in eheek by spraying with lime-sulphur or bordeaux just as for apple paab, with the addition of one apple cation after the leaves drop application after the leaves drop in the
fall. This should consist of strong lime-sulphur, or of a copper sulphate solution (not bordeaux) of suitable strenflin In addition to this it would fy wise to examine the trees to see if til - branches have become affect ed. If they have, such brancheen shonld be pruned out and burned For trees whose branches are more or less serionsly affected, the Pruning saw is the chief instrument. third of the the worst, Jven to onethird of the total top, a similar portion sext fall, and the remainder of the old top the following year. By
this method 60 or 70 per cent. of the this method 60 or 70 per cent of the
orohard may be saved. During this time the orchard should also be treet ed with fungieides as indicated in the preceding paragraph.
Poar scal gains an entrance to the brawthes during their first year's growth when they are grean and delied, entry is made only through wounds.

## V/hen Selecting Grapes

F. G. Sterurrt, Lincaln Oo, Ont

If I were asked to solect the six ost varieties of grapes for planting I 1) Concord them as follows:
(1) Concord: The buds of this robt dos woolly in the spring and y will grow injure them easily. (2) Warden and are shippers.
(2) Wharden: This grape has good atle grape.

Nragara: This is a desirable
Moore's
d not advise : An early gnape round
(5) V own on either sand good red grape, $A$ good elay soil. On heary soil it goes too ${ }^{\mathrm{h}} \mathrm{t}$ to wood

## Soils for Sweet Peas

T. Macoun, C.E.F., Ottawn.
ersily worked clay loam is the ind of soil for sweet peas, It y a moist cool soil and fairly potash and phosphoric acid. the addition of well-rotted barnmanure thoroughly incorporatith it, it should be sufficiently peas are liable to run too much Ene if planted in clay loam and manured, hence, no stated only moderate fertilizing is ary or desiralle.
ave had good resul
ave had good results in growing peas in light sandy loam soil a moderate dressing of manure, If the season were a hot one the ts would not be so good. If is no soil available except a
loam the surface should be heavily mulohed for sighteen s on each side of the row with lawn elippings during the sumor better still with short manon top of which may be put the clippings for cleanliness,
is an unfortunate thing for the industry when we have a year is was year before last when all is clean without having been Fruit growors then come to Lord" and they expect elean again the next year. How sad experience has been demontime and time again.-P . J. Dominioa Fruit Inspeotor.
peated ercppings with any one wear out the land. Better rotate. sent. W.

## 

## POULTRY YARD

Shipping Dav-Old Chicks
A ruat many people are surprise foirly dried ofhicks, before they are fairly dried off, can be safely sent by express from 200 to 1,000 miles and reach their destination alive and in good condition, says a writer in Farm and Fireside. But such is the case and today the shipping of day-old and today the shipping of day-old and thousands of thess, thousands being shipped all of the little chaps ing the shipped all over the woild during the hatching season.
some people do not know that a chick, which escapes from the shell in which it has been a prisoner for three Weeks, will stand a lot of abuse and with it. Nature has provided harsh ply of nourishment for the little fel egg. from form of the yolk of the chick comes from the hatched. The chick comes from the shell with the undigested yoik yot in its body, and this furnishes all the food that the ohick needs for the first 48 hours of its life. When the little chicks are packed away for several hours during shipment, they continue to gain strength and are much better off than if they were exposed to the suddent changes of running in and out of the hover of the brooder. And those the reasons why so many are safely

Whbn shipping small lots
nicely dried off, they are ready for shipment. I have found baskets to be excellent for shipping the little felThese in small lots of from 12 to 50 These baskets should be strong
low. About four inches is the p
height. I line the basket well
burlap. Cut alover and chail
then put in and a cover of bure sewed over the top of the basket. A sewed over the top of the basket. A
label, "Live Chicks," is sewed on in a conspicuous place, and they are ready for shipment. I like baskets best, for they are light and easily handled. Manufacturers ean supply ycu with any sized basket you wish.
If you prefer to ship in boxes, make them four inches high, of light material, and line them the way mentioned are to be shipped, If any great number placed in boxed, the chicks can be decks. Don't feed containing several decks. Don't feed them anything for The shipping of day-old chicks has come to stay. Buying young chicks will save you a lot of trouble and money, too. Send ycur orders early and don't expect to have your ehicks shipped the day after you order them. You know you cannot get them until after they are hatehed.

## Poultry Experience

## Ohas. T. Dakin, Prince Edward Co.

We have 40 Ant
farm and four aroma pullets on our We got our frat five old R. I. Reds. son's crop oi pullets from last seaand up to the present in December, ceived a little present time have reran out of wheat 1,600 eggs. We that the of weat lately and I find iately.
pullets and arit and ahell before our Corn, buckwheat, a hopper of bran. Corn, buckwheat, oats and wheat are ecattsred morning and night in the litter. A mash of corn meal, bran and house scraps almost dry, is fed at noon. We have also used some meat meal. We have a cotton front house 18 by 26 feet.

Wauld like to know how Mr. R. A. Marrison fed those 60 pullets that he kept in a house 14 by 14 feet.

## "MONARCHS" Make Farm Work Light



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etrain, 81.00
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AND brooders combined
Thi Phalo 8 greum. Thit machine; oote machine on the market to-day. catalogne Addrees market to-day. Free THE CYCLE HATCHER CO.,
is SVinNGTON AVENUE. TORONTO
CHLVES Raise THEm WITHOUT MiLK

$\square$ Waite roi FREE BOOK SCIENCE OF FEEDING"

## Baby Chicks

Order your baby chicks now from our splendid layingstrainofSINGLE COMB WHITE LEGHORNS
Utility Poultry Farm T. G. DeLA
STRATFORD

ONT

## The Call of The North

Do you know of the many ad
Vantagein that Now ilth ite thationew of Ontarto Acres, oifera to the of Fionpeotivie theoe rioh jo you krieulturat that obtainable free and at a nomin: al cooi, Are alraedy anodueln. grafin and vegetably producing

For Heratare teonitive
this great territory, and for of formaition as to terims, homatead repulations, settlers' rates, eflo. rrite to
H. A. Macdonell,

Dirsotor of Oolonisation,
Parliament Buliatings,
Toronto, Ontarle

## LIVE HENS

We shall pay this price per pound for good live hens delivered in Montreal. We handle dressed calves on commission. Try a shipment. Harris Abattoir $\mathrm{CO}_{0}$, Limete, Montreal BIBBYG
CALF MEAL
 TORONTO - MONTREAL OREY FROM WY REWNIE C9 UMIEA WINNIREG - VANCOUYER

$0^{\prime}$ 'Connell \& Co. Offerings
 acrea haider cultiva. pasture hande. wood and broomed hous. Now out buidinges. Toin ms ancole
Scoon.00 buys 3 ste part containing 10 rooms, 7 bedrooms, al

$\$ 2650,00$ buys a beautiful, 3storey Karden, situated 5 minutes walk from Write for other attractive offeriogs, till pay you tocome to us when you want
to sell or buy. For full particulars apply
J. T. $0^{\prime}$ CONNELL \& C0. 136 Hunter

A Pure Wholesome Nutritious Meal CALFINE

CALVES LAMBS COLTS PIGS


GUARANTEED ANALYSIS

Proteis. $\mathbf{2 0}$ per cent.
Fat. . . 8 per cent.
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Save $\$ 15.00$ to $\$ 20.00$ on Your Calf Feed
Wrile for Booklet and Pricen
CANADIAN CEREAL AND FLOUR MILLS, LIMITED Toronto, Ontario

IISeldom See how the farmers of europe secure money at low intrag
 ABSOREINE

##  




Bennett Portable Typewriter This wonderful New Typewriter at onesixth the cose wypwriter
tenth the number of parth onetenth the number of parta, one-
the eame work as expenive ma:
thate the kame work as expenaive ma
thines, with quickness, neatnes and case
THE RENNETT is a Portable, Vir ible Writer, ink ribbon Typewriter standard key, board. Light, imple peedy, compuct, strong. Put up in
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sold in Canada for only 825.00 tress our Canadian Representative W, M. LANDON, ROCKPORT, ONt. Or, the Bennett Typewriter Co.,
356 Broadway, New York. U.S.

## EARIY SEED POTATOES

Early Ohio..... \$2. 50 per Bag Irish Cobbler 1.50 Early Puritan Quick Lunch Early Sunlight.
 Early Sunshine.
2.00 Early Fortune
1.50
2. 00

Early Eureka.
Burpee's Early.
Chicago Market
1.75
1.50
$\mathbf{2} .00$

Early Harvest
eerless

## nd relonimued from page

 also at low the money to member Woodruff explained their ability to They money so cheaply as follows. They have no extensive bank build ings to maintain, and the presidents In fact ins serve without salaries. banks, in the majority of these aries no money is paid out in sal conducting the bank in his own home without reward. Likewise, as they have little or no capital they pay mo dividends.
## These ${ }^{\text {t NO BAD Loans }}$

ruff 'have banks,' said Mr. Woodruff, have never been known to lose money through bad loans. Money is loaned only to members and as the
operations of the bank are confined to a very small district, each mem. oans are apportioned member. The


The Kind we are Getting from the Old Land
Every importer who brings a high-liass stallion into Canadn ind

the members and hence a man must be thoroughly honest in the sight of his neighbors to secure a loan. When man has gotten a loan his neighbors will help him to make good. Loans, too, are only given for specifectilizers, live such as the purchase of The Schultze-Delitzsch machiner

## The Schultze-Delitzsch Banks of

 Germany, operate in the cities, and are cooperative, but unlike the coundends. The dividends are limited divicertain fixed amount are limited to ers get the benefit of anything over and above that amount.The Credit Agricole, of France, composed of local banks similar to the Reiffeisen banks. These banks are federated into a kreat central
bank under government managebank under government manage
ment. This plan, described by Mr Woodruff, savors more of paternal ism in that regional banks get money
free of interest. The regional than free of interest. The regional bank loans to the local cooperative bank at three per cent., and the local bank in turn loans money to the farmer at three and one-half per cent. The provisions of the loan are similar to those described in the Reiffeisen banks.
cooprbative leotslation nerde
When asked to suggest a plan for application to this country, Mr Woodruff pointed out that the laws in practically all provinces and states would have to be so amended as to admit of cooperative credit banks being formed. Hence it is up to our B. F. Harris of Champaimn III former president of the Illinois
Rankers' 'Association, was asked to

Farm, Oheaterville, Ont stallions sueh as this are well worthy of patron Be

University, advocated that each sh or province organize a land m kake bank and raise capital by ing mortgage bonds. The gon ment would simply be intermed branch of the associaltion migh established in every county Prof. Price objected to the : organized land mortgage in that it is formed on the stock plan, and the directors the largest sharcholders.
their efforts to make the gre possible profit on capital sto

## An Opportunity to Vinit Toronto

To nccommodate those wishing visit Toronto for the Canadian tional Horse Show, the Camd Pacific Railway will issue tel tickets at single fare, plus ents for admission to Horse Shy Goina Dafra

## From Peterboro, Hamilton, In

 ©ip, Milverton, Elora, Kenilwo Proton. Graighurst, Dunsford and ermediate stations, including divisions, Tuesday, Wednesday, Th day, Friday and Saturday, April z 30th. Mav 1st. 2nd and 3rd.From all other stations in Ontur Sharbot Lake, Renfrew and vest not west of Sudbury, Tuesdny, I 29th, only.
Return limit on all tickets. Moni May 5th, 1913
This is an excellent opportunity visit Toronto. Secure tickets any C.P.R. Agent.

## discuss the subject

$\qquad$ Inste. started out by censuring the of America for their prodigiou: methods of farming their indiffr methods of farming. Mr. Han
practically the only speaker Conference who took the view that the farmer's first
most only duty was to prod crops. He claimed that th. pendence and individuality Aredit almost impossible coop spite of the fact that 100 or the delegate ; ; before him America. He advocated oans with amortization long capital to be supplied by priv porations under government RT
ograment organize bita


## A Hcm

An Annual
$\qquad$ two acree. As ire mixture for the As a crop that pring for summer cows, we would st sllowing mixturee squal parts by wei
ate of four bushela its and vetches, sight, sown at
nashels an aore; p heat and vetches, wight, at the rate re added.
Professor
ongly recommend in in a mixtare from five to se pasturage is req the soil. If you visable to hold the at $\begin{aligned} & \text { long, a cheap } \\ & \text { eeted of wire and }\end{aligned}$. vly seeded portion pasturage.

## A Heme Made Evaporator

 R. F. Whiteside, Victoria Co., Ont. Now that the three evaporator ad vertiseinents have disappeared for the time being, it oeeured to me that I mow one-horse sugar and Dairy readers might make cheap, but syrup makers might make cheap, but efficient eva$7{ }^{2}$,tors, arches and smoke pipes. two from 200 to 500 trees procure two galvanized iron sheets 3 by 10 94 gauge. This and two 4 by 10 feet, feet or about 140 will be 140 square secured from Rice Lewis and can be ronto, for $\$ e .30$. Lut one Sons, Toronto, for $\$ e .30$. Gut one three foot sheet in two, bend up all round six Thenes, making two pans 2 by 4. Then make a 10 -foot smoke pipe of the other one with a few rivets, a punch and hammer on a long twoinch bar of round iron. Take the four foot sheets to a tinsmith having
##  <br> Diagram of Sap Pan

orimpe trough press and have him Also have him and solder in end pieces. eighth, by one and a quarter atip onefeet long to prevent quarter by three or solder being cracked. ar solder being cracked.
A very simple arch will suffice. Have the front four feet on the lower
slope of rising ground slope of rising ground and a stone foot pan. A door is for front fourgrates are useful. The seconsary but gated pan just sets on the corruground and banked up at sides level tle. For the back pan at sides a litthe. For the back pan a wall of sods
bout six inches high does very well. about six inches high does very well.
After sap is reduced to 12 or 16 gallons it can be cooled off and cleans 16 gallons it can be oooled off and cleans-
ing added. Some use soda ing added. Some use soda, others four to eight cups of milk with three to six eggs well beaten and stirred in to help bring all seum to the surface. When completed run through a large white belt strainer and this can be fished in the corrugated pan if speed considered.
This excellent economical apparatus hhould not cost a farmer more than Bot over and above his own two or
three days' labor. three days' labor.

## An Annual Pasture Crop

Am squaring up Aeld All is seeded Tis field, would you reoommend to parture dibeoriber. pubariber.
As a crop that can be sown in the upring for summer pasture for miloh cows, we would suggest one of the ollowing mixtures: Peas and oats, wual parts by weight, sown at the rite of four bushels to the acre; peas, ets and vetches, equal parts by eight, sown at the rate of three makhels an acre; peas, oats, barley, heat and vetches, equal parts by right, at the rate of $31 / 3$ bushels an tre with 10 pounds of sorghum an re added.
Professor Zavitz, of the O, A. C., rongly recommends the use of sorgow in a mixture for this purpose. e pasturage is required weeks before the soil. If you do not depending the soil. If you do not consider it visable to hold the rest of the field at long, a cheap fence might be eoted of wire and stakes around the wly seeded portion until it is ready pasturage.

## SIMPSON'S PAY DELIVERY CHARGES <br> THE gratifying experience illustrated in the above <br> HE

 picture will be yours if you shop by mail at the SIMPSON Store. Your purchase, whether for fifty cents or fifty dollars, STMPSON Store. Your purchase, whether for fifty cents orf fifty dollars,will arrive all delivery charges paid. You will have "nothing to pay."
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We guarantee satisfaction, or your money.

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OUR SPRING AND SUMMER CATALD,

## Jut wite your name and addres on a Pout Card and ank for Catalogue Number ase copy. <br> 

if it is to encourage farmers in the growing of great crops, should heip them to solve the problem of marketing those erops to advantage.
We realize that there are great diffculties in the way of establishing a department of markets in the agrieultural college. The men have not yet been developed to handle such departments. We would suggest, 'however, that our Canadian eolleges might make a start along this line by condueting a seriss of lectures, say 10 in a year, the lectures to be given by men who are noted as successful salesmen, both farmers and business men. Such lectures, even if they did not give the student direst information on the solution of his own marketing problem, would at lenst awaken the student to the importance of this phase of his business and set him thinking in the right direetion. The day is not far off when publio opinion will demand that marketing be a subject of study at every agricultural college.

## IS THIS POLICY WISE?

Another million and a quarter acres of Ontario's free land is to be banded over to a railway corporation! When McKenzie and Mann were given two million acres of Ontario land a few years ago, we were led to believe that from that time on application for land grants would not find favor with the provincial government. Within the last week or two we have been disillusionized. The On-
tario Goverument has introduced in tario Government has introduced in the Legislature a bill authorining grant of over a million acres of land in Now Ontario to the Lake Huron and Northern Ontario Railway Company. The price is a mere bagatelle -nine hundred thousand acre at twenty-five cents an aore and three hundred thousand acres at fifty cents an acre.
One provision of the charter provides that the company must bring in 3,750 settlers within 12 years. The government believes that in this way they will populate New Ontario with little trouble or direct expenses to themselves and at the same time, railWay construction, will opon up good country that will supply cheap farma for the surplus population of Old Ontario and attraet emmigranta that would otherwise go to the prairie provinces.
While a railway company may bo deserving of government assistance in developing a new country, we believe that the granting of large traots of the crown lands is not the best method of giving such assistance. The growth of Canada's population is most rapid -ten times more so than that of the United States at the same period in its history. Within one generation all the free land in Canada may be oocupied. Land that can now be had for twenty-five or fifty conto an acre will in that time increase in value one hundred foid. We can realive the extent to which railway companies holding large tracte of land will benefit. If the government must amist such companies it would be oheaper
to endow them with cash and retain
the land for the public good. The land could then be sold in small parcels as required for settlement,or for lumbering purposes. The unearned increment resulting from the increasing value of the land would thus be returned to the people and not go to fatten railway dividends.
We have seen the resulte of granting large tracts of our Western lands os "development" companies. These companies "hold up" new settlers as they come into the country and enrich themselves through the increasing value of the land which they own, this value having been created solely by the increased demand for the land. The perniciousness of the practice of granting large tracts of our crown lands to corporations that will grow fat on the unearned increment is becoming more apparent. It is up to us to let our representatives know the question.

## the mexican situation

The situation in Mexico, as we read it in the newspapers, does not appear to be of interest agriculturally-but when we read between the lines and study Mexionn conditions the situation evalves into one essentially agricultural. Mexico, with its revolutions and counter revolutions, with its yearIy expenditure of human life and hard earned money, carries a pointed lesson to farmers in Canada who have the making or unmaking of the country in their bands.
What is the trouble in Mexico? It is lund hunger. The Mexican peon does not wish to fight any more than the Canadinn farmer ; but be is fighting continually. He is rebelling aguinst slavery-land slavery. Nominally he is free. The trouble started hundreds of years ago when Cortez conquered Mexieo. That old Spaniard divided the land among his favorites and the great majority of the people having no land of their own, were forced to work for those who owned the land. The result wus that wages were forced down below a living rate, and in the last hundred years Mexico has never known a day of such peace as we experience here in Canada.
Where are we heading for? It is true that at present there is much free land in Canada, and land mono polization under present conditions is almost an impossibility. At the present time, however, people are flocking to Canada 10 times faster than they did to the United States when the population of that country was the same as is the population of Canada today. We prediet that within the next 30 to 50 years, if the present inflow continues, that practioally all of the available land in Canada will be taken up. Then, yee, long before then, will the proportion of landless men increase with all the dissatisfaction that that involves.
In our citiees today we are beginning to defelop the rudiments of the same causo as lies beneath the Mexioan aituation. Immensely high land values are making the fow rich and

exacting such a large proportion the wages of the worker for rent th life is ever becoming a burder him. These same increasing are also abaorbing such an increasit, share of the wealth of the country that the farmer, too, feels the load What difference is there betwere our system of land ownership here Canada and that which exists Mexioo, aside from the fact that still have free land available? there is no difference, what condition may we expect in Canada when free land is exhausted? The more think about this the more convin do we become that our farmers' ganizations are right in their conte tion that all taxes should be plane
upon land values. Suen upon land values. Such a system taxation would insure a just propy
tion of the taxes raised on city tion of the taxes raised on city hay
values being used for the benefit the farmers who belp to create values. Such a system would also i sure all land being used to the b advantage.

## BE EASY ON THE BOY

II suppose I would be on the yet if conditions had been right. The speaker was a brakeman o train on which an editor of Farm
Dairy was travelling recently Dairy was travelling recently. are always interested in the boy have left the farm. We inquired to the conditions that had given th young man a dislike for farm work
II had to work too hard," be plied in answer to further inquirie "My father had the idea that : way to success lay along the road hard work. As soon as we boys wed big enough to reach the cow we were set at the milking. Whe
tall enough to properly grasp ti plow bandles we were at that have handled a scythe behind father when my arms were aching the shoulder. I decided that the must be an easier way of making living than that.'
The story told by this young niz wayman comes home with particul emphasis at this time of year busy season is now approachinghere, in fact. Every bit of lab available will be needed to ge the crops. With labor as scarce it is there is a tendency to expect little too much of the farm boy he may only be asked to do chore but even chores, in too gree.b quy
tity may be most burdensome to small boy with a boy's love of plat

His idea tising in his disputed tru the "sterlin ries the imp genuine.

Every ad zine require am the truth nothing but Advertisin erage paper cause it is no thinks that tl $100 \%$ of th every advert cheese. or to His will ultin be-desired po

That such alded by the here, even in with Farm an er may feel a ing an article cause of seel will buy it b safeguarding terests.

Let us remember that a boy is a the markêt, the problem beoomes boy and be moderate in our demands on his time and strength. Inconsiderate demands on the boy's strength have driven many a young fellow away from the old farm.

## Intelligible Branding of Fertilizers

B. Blanchard, Hants Co., N. S.

What fertilizers shall I'buy this year? This is often a perplexing
problem with some of es. In buying problem with some of es. In buying
such standard products as muriate of potush, acid phssphate or mitrate of soda, we can make very little mistake. ber of brands of from the large num-

## AD. TALK <br> LxxVII.

"Dick" Waldo last week in Toronto at the Ad. Club, told of "Safeguarding the Public.
Mr. Waldo, you know, is the advertising manager on Good Housekeeping magazine printed in New York City. This magazine has possibly done more than any one or a dozen others to further the cause of truth and absolute reliability in advertising.
Not unlike Farm and Dairy, Mr. Waldo has worked on the belief that "service rendered need never be unrewarded." He has been giving the advertising patrons and the readers of Good Housekeeping magazine an unusual class of hyper-quality service. Through this service rendered, his magazine has come, even as Farm and Dairy is now coming, into its great and just reward.
His idea was to make the advertising in his magazine stand for undisputed truth and quality just as the "sterling" stamp on silver carries the impression of the absolutely genuine.
Every ad, to get into his magazine requires the "hall-mark,"-I am the truth, the whole truth and nothing but the truth.
Advertising ordinarily in the average paper costs too much because it is not believed. Mr. Waldo thinks that the day is coming when $100 \%$ of the people will believe every advertisement in every pubcheeses.. He prophesies that every 1. will of protect his own interH. will ultimately proceed to make mis publication reflect this much-to-be-desired possibility.
That such a day is coming is heralded by the day, which now is here, even in Canada in connection with Farm and Dairy, when a buyer may feel absolutely safe in buying an article or merchandise because of seeing it advertised-and will buy it because of advertising safeguarding his-the buyer's interests.
There's a great big point in that very thing. A great many manufacturers and advertisers have come to see it, and that is one of the reasons why-in spite of a little higher rate-they advertise in Farm and Dairy, and it pays them well to be in this farm and dairy paper,"A Paper Farmers Swear By"

## more complex.

The Government analyses of these mixed fertilizers are of little aid to the average farmer-they might as Well be written in Greek. The total amount of available nitrogen, phosphoric aoid and potash is given but we have no idea of the form in which these elements oceur. Two brands of mixed fertilizers may contain the same amount of nitrogen but in one it may be in the form of nitrate of soda and in the other in the form of tankage-two oompounds with very different properties. Nitrate of soda is readily available to plants, but is soil in a few weeks. Its out of the is as a forcing agent. Ths proper use is slaughter house refuse, decays slowly and is available throughout the entire senson. It is also, a cheaper source of nitrogen than is nitrate of soda. A judicious mixture of these two compounds will generally give better results than either one used alone. But unless we know in which form the nitrogen is present we do not know how to use the fertilizer. another case in fornt
Then again, in buying a mixed fertilizer for potatoes, it is important to know if the potash is in the form of sulphate or muriate. The sulphate gives a better quality of potato but fertilizer manufacturers sometimes

suhstitute the muriate because it is cheaper.
shou'd believe that the government shotr'd oblige fertilizer manufacturers to give, in addition to the amount of available fortilizing constituents the percentage of each compound in the mixture. For example-nitrate of soda, 5 per cent.; blood meal, 10 per cent.; acid phosphate, 30 per cent. ; basic slag, 30 per cent.; muriate of potash, 25 per cent. Such a guide would be of untold value to the farmer and incidentally it would benefit the manufacturer as well. Not a
few farmers have given up the use of fertilizers because they bave used some brand for a purpose to which it was not suited and have gotten poor results.
Fertilizer
hemical experts manufacturers employ mix various compounds to give the best results. The farmer might not know that in mixing sulphate of ammonia and basio slag the excess of lime in the slag would liberate tome of the nitrogen in the ammonia, fachanical mixers give a more uniform mixture than can be obained by hand mixing. Manufacturers of fertilizers can also make use of materials, such as tankage, which ara not easily available to the farmer. For these reasons mixed fertilizers ean sometimes be reommended.
If we farmers knew exactly what these mixed fertilizers contain, we would pub more confidence in them We would understand better how to use them and world use more of them.

Actually it requires more energy to digest wheat straw in the stomach of the horse than its food value amounts would The only occasion in which we would feed wheat straw is to an idle horse and in connection with a good grain ration. Its value would be simply as a filler.


## Three cows and a

## DE LAVAL SEPARATOR

## will make more money than four cows with gravity setting

Thousands upon thousands of cow owners have already proved this statement; any experienced dairyman will verify it for you.
With such a big saving it is hard to understand why any cow owner should try to get along withouta De Laval Cream Separator. If you are selling cream or making butter, and have no separator, or else an inferior machine, we know if we could put a De Laval on your place we would be doing you a personal favor. If you haven't a separator don't make the mistake of starting with a "cheap" or inferior machine. When you do buy a sepa-
rator-as sooner or later you surely will-be rator-as sooner or later you surely will-be sure to get the best
-the De Laval. Remember
in the purchase price of a cream separator in the purchase price of a cream separator. A De Laval costs only a little more than the cheapest and will save you twice as much and last five to ten times as long as other separators. De Laval Dairy Supply Co., Limited MONTREAL PETERBORO WINNIPEG VANCOUVER


## CREAM

CREAM

## Sweet or Sour

Wo are buyery of Oram and will pay the higheet price for it per
 We will operate the year around.

THE BOWES COMPANY,
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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 15

 appoaranco-a eilo that mill improve the tooke of your tarm.
Any Mason Can Build a Natco Everlasting Silo Once up - it will last a lifetime without needing repairs. We have a ${ }^{50}$ page Mlustrated book on eilloe and eilage.



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ING COMPANYIOF CANADA, Limited toronto

Ideal Green Feed Silos Are Sweeping The Silo Field
many Silos as ever before, and during the first three months of 1913 we have more than doubled the sales for the same period in 1912.
This shows conclusively that Canadian dairymen are coming to realize the advantages of the Silo and to appreciate just how much better the IDEAL GREEN FEED SILO is than any other make.
Here are some of the points of superirity which make these Silos so popular: Material: Canadian Spruce especially selected for our own use.
All lumber is saturated with a solution which prevents rot and decay and reduces the tendency of the staves to swell or shrink and adds two to three times to the life of the Silo.
Hooped with heavy round iron hoops every 30 inches apart.
Only maileable iron lugs are used.

All doors on the Ideal Green Feed Silos are self-sealing. Doors are only 6 inches apart, can be removed instantly, and are always air-tight


The roof is self-supporting; built without rafters
Silo can be filled clear to the top through the dormer window All sizes furnished.

## Write for our Big New Silo Book To-day

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montreal PETERBORO WINNIPEG VANCOUVER

1

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of the Domo Oream Bopanator. Think of it. We aend freight prepaid, to teet at our expene on approval, freight prepaid, to teet at our expense. We take all what you pay for others, and you opwards, about half What you pay for others, and you oan be the judge of

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of payment. It's FREE.

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ST. HYACINTHE, Que
How about seeing your friends and neighbors now and getting them to subsoribe to Farm and Dairy.

## Ending Your Gate Troubles

 (1) that won of saza, brakek bend baymers want as follows: A Gate

 Clay

## Steel Farm Gates

meet all the ahove roguirements This is why the leading stoekmen, with soaroe
ly an exception, have Clay Gates on their farms. This is why farmens who onee try them, keep them, being delighted with them. The O.A. C. has them; Eo
have the Experimental Parm at Ot.
tamn


 hogs on buttermilk and middling from which it realized an average me profit of $\$ 10.75$ a hog for the seasot A creamery in Iowa fed 308 hogs buttermilk, corn and pasture and o ports an average net profit of $\$ 5.3$ hog.
A
78
9 8 hogs on creamery reports feedin an average profit of $\$ 2.59$.

## In the Ice House <br> By Jas, Sorenese

Now is the time to watch the ice in the icehouse, and see that the saw dust is packed around the sides, also on top of the ien inches of saw dust is filled, the saw dust is usually paels ed around the foe as well as possible, but if it is damp, it is generally frozen into lumps, which makes it imposice and, as soon in tight around the warmer in the sprine weather gets warmer in the spring, the lumps of saw dust thaw out and sink down, and If this is not done, there it again. If this is not done, there will be a
chance for the air to work into the pile of ioe which, if allowed to the tinue for any length of time, may cause a heavy loss of ice.
icehouse every day is to go into the year, and go around the time of the a piece of board pard the outside with a piece of board, packing the saw dust
down. This will only litele. This will only require a very you from running ahor, and may save you from running short of ice next
summer and, if you have ever tried summer and, if you have ever tried out ice, you will know weather withIf you have never had this experience. you have not missed much, as it is far from pleusant, and, besides making a may be the cause of buttermaker, it may be the cause of heavy losses to
the ereamery, -Dairy Record

## Hog Feeding as a Side Line

 The general run of creameries make produces, such as the skime the byproxuces such as the skim milk and buttermilk. Some charge their pa-trons a few cents a can; others allow trons a fow cents a can; others allow
it to be carried through a drain pipe
to to the nearost and most convenient ravine or depression in the field Some creameries, however, are making proftable use of the buttermilk by feeding it to hogs. The value of buttermilk as a food for hogs has ling been known to practical feeders.
The value of butterming pose depends largely on the this pur pork, so that the present high prioes pork, so that the present high prices
give the buttermilk a relatively high
vile Live the buttermilk a relatively high
value as a hog feed. The following creameries found it profitable to fecd buttermilk to hogs

A creamery in California fed 86
termilk and ana one creamery fed bu termilk and shorts to 170 hogs and reports a net profit of $\$ 7.32$ a head. feeding butt.rmilk, oreamery report feding butti-rmilk, middlings and
shorts to shorts to 30 hogs, with an averae profit of 86.60 a head.

A Washington crédmery fed 69 hogs on buttermilk, shorts and bran; with a profit of $\$ 5.26$ a head.
The above amounts include the con of labor in caring for the hogs and the value of the buttermilk fed for if there is It is, however, doubtfut ereamery for any extra expense to the usually yor labor, as this work usually done by the regular force an probably all the profit can be allowed Conn. Farmer.

Operating Creamery Machinery This one part of creamery work pense ton carried on at a great es pense to the creamery, becouse training and oplifl tors lack propet shinery as it shill to operate the ma. ancommon sight to to it is not an ouse or backyard of cre the store see valuable machinery set aside long before it is worn out. In many casee this is due to a buttermake who lacked knowledge of operating such machinery, or keeping it in re pair. Churns are often worn out where they could be used for years, if proper attention had been given them in dua season. Any piece of machinery not properly taken care of will wear out long before it should.
A buttermaker should be able
keep all boxes babbitted and shafts line, bolts tightened and frictions perly adjusted so as to provent wear. to should also possess mechanical skill to keep the engine and boiler in
proper condition. proper condition.

## packing a stbam oheat

A very good way to pack a stean packing blowing is trouble with the prain sack and out, is to take grain sack and cut your packing ou Then the steam chest cover or plate Then take a wire door screen and cut it the same size as the saek packing, and lay this packing on the steam chest plate with the soreen on top of the sack packing. Vse string to tie through holes where bolts go. while will keep the packing in place While you are putting the cover or plate on the chest. A softs che packing should be used for va we boy and pistons, especially on old s
so that it will give and "seat so that it will give and "seat" on the worn parts. This will make perfeot fit, and stop the leakage Hemp paoking is not good for auch places, and should not be used, as it will beoome burnt and hard, and will wear piston and valve stems, this causing them to leak. A croes grain ed garlock packing will insure th best reaults
It is a good idea to keep on hand a few cast iron flue plugs in case
flue should spring flue should spring a leak during the run. These plugs, in case of such ac cident, can very easily be driven int. the flue with a sledge or heavy ham mer. A general overhauling of maelinery should be kept up, at least oned a week, for only when machinery kept up in proper shape will it ru longest, and wear best. The machin ery that has been neglected and consequence has to be replaced very costly to the oreamery.-Butte Cheese and Egg Journal.

This Gate
Is made of tubular steel of large diameter-far superior
10 gas pipe or tee or angle 10 gas pipe or toe or angle
inon: and of heary wire iron: and of heavy wire
mesh fabric. Will last ancle mesh fabric. Will last a life
time. Can be rained Bhown, by simple rained at antment.
Blay Gates are and Olay Gates are wonderfully light and etrong, and al
waye ewing true.


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 Gordner, Thomas a Cose Season
The cheese season is closing under very different circumstances to those of last year. Then We had just come in which the cheese output for the British Isles did not reach, we think, The season the normal production. The season now elcsing has on the contrary been one of plenty. The meadows gave a full crop of grass, and right through the winter the herds have hod good feed in the same ply of medium quality hay agood supOwing to the quality hay.
there was not the usnal extra of 1912 for milk. In the usual extra demand cheese make which resulted the English siderably abcve averase ted, was conNew Zealand average The season's there are 25 farmers or more. Personal character has been the only basis on which loans have been made. and throuf $h$ the operation of these banks lantless men have been put on manless land.
"What," said Mr. Simon, "coutd cooperative crellit not do for landed men when it does so much for landSimon represented has loaned already

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$\$ 1,494,437$ to 2,588 farmers. The so90 per cent, of the vey up to 80 and rower's property, but the loans borpeen made only for productive pur$\$ 100,000$ of interest society collected It was not expected that principal. first meeting of the National Conference on Marketing and Farm Credits that any of the great problems facing the American farmer would be solved. Hence no definife conclusion was reached as to the best mode of procedure to be followed by the farm er of the United States or the farmin securing cheaper money. But the vast amount of information deduced on the operation of European credit delegates to the Conferavice, the readers of agricultural papers represysted there, and in time a workable system will be deduced.-F. E. E, has been in successful operation among the French farmers in the many yorhood of Pt. Levis, Que., for cure a description of the methods of sue to whom the county council Ias re cently donated an automobite, calls our attention to the fact that the majority of the rural representatives of the county voted in favor of his getting the auto, and not against it, as was reported in Farm and Dair and other papers. It is evident that Mr. Hart has made a large place for him. self in the goodwill of the farmers of


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not alone, because it is the purest and best salt for salting butter. But because it will salt more butter, pound for pound, than any other salt you can use.
The big creameries will tell you this-and show you tests to proveit. The Agricultural Colleges demonstrate this every day.
Every farmer and dairymanwho is getting good prices for butter-is uning Windsor Dairy
It is pure-it makes beautiful butter-it works in quickly-and it is the cheapest in the end. Just try it yourself,

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## Must be in good order. Apply to

## D. D. ALLAN, Princeton, Ont.

Renew your subseription NOW,
(15)


CREAM WANTED deliverad sweet or cour at any sxpreme offioe. We supply cans and remit prompt. ment. If 16 years' experience of each ehipour cream to the Toronto oounte, ship

Tr interested you should write ue.
Toronto Creamery Co., Ltd.
Cream Wanted
charges. Drop us a card. For referenceImperial Bank, Ridgoway, - Point Abino


CRAMPSEY \& KELLY Porecomer, ad

## The Best Cheese Vat



No wood to rot out in a season. Baey or eracks elean and oweet. No cornere or eracks for milk to lodge in and
decompose.
on Earth
 manufacture Steel Cheese Vats, we have ever been vide awake to adopt any new feature that would mainManufactupers of as best Cheese Vat on earth.

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To make our Vats the beat heating Vat and the best to
hold the heat. that is to hold the heat longer in the
cool season than any other
all our steel Vata inside vat made, we are now Hining
Water and 5 tenm Proof the outer tank with aw inning you an idea what thls meane to our Vat, we might give its effectiveneas in holding heat under vat is Twenty say,
greater than greater than galvanieed steel. This Asbestos Board is solutely Steam and Water Proof.
has taken yeare of erpatiperteof.

We needed to put our steel cheese vat in a place to find fust what its heat retaining powers are concerned. We are pleased with this
acoomplishment: it means a solves one of the problems of the past; it means is vat that will be an every day joy to him.
We have decided to retain our presint prices us considerable money, Write us for Catalogue and full information.
Steel Trough \& Machine Co., Ltd., ©jsames. Tweed, Ont.


HE habit of looking on the best side of every event is worth more than a thousand pounds a year.-
Johnson.

## Rose of Old Harpeth

## By MARIA THOMPSON DAVIESS

## Copyright, 1912, The Bobbs-Merrill Company"

## (Continved from last week)

ILL eat both the dinner and supper you have saved when 1 come
back, though it may be late before I get my telegram. We Will you be
still awake, do "I may not be think?
got me up so awfully early to belp him and Uncle Tucker grease those foolish little turkeys' heads to keep off the dew gaps, but I'll go to sleep on the settee in the hall, and you can just shake me up to vive you vour supper
"I'Il do mothing of the kind, you foolish child," answered Everett. "Go age her dreams, can she? thoughts that the are only little dav and run around lost in the dark, answered Rose. Mary, with a laugh dream that is wours," setop turkey "Iream that is yours," she added. Everett called back from the middl Everett called back from the middle
of the plank across the spring stream, and without waiting for his And the strode down the Road.
And the smile that answered his sally had scarcely faded off Rose Mary's face when again a shadow ment Mr trabe plank and in a moway. Across the way the store was deserted and from the chair he drew just outside the door he could sec if any shoppers should approach from
either direction. either direction
"Well Miss Rose Mary, I thought as how I'd drop over and see if you trough you are fattening Mr that at, for the fair in the fall," he said with a twinkle in his merry little biue eyes. And Rose Mary laughed with appreciation at his often repeated little joke as she handed him a tall glassful of the desired beverake. blue ribbon from over his head if he keeps on drinking so much milk. Did you ever see anybody erow like my the most manifest pride in her woice and eyes.
"I never did," answered Mr. Crabminds me to tell you that a letter come from Todd last night a-telling me and Granny Satterwhite about the third girl baby borned out to his house in Colorado City. Looked like they was much disappointed. kinder give Todd a punch in the ribs about how fine a boy General Stonewall Jackson have grown to be. never did hold with a woman a-giving have done the though she couldn't by a long sight. out Stonie, Mr. Crabtre done withed Rose Mary with abtree!"' exclaimed Rose Mary with a deep sadness coming into her lovely eyes. "You know how it was !" she added softly,
claiming his sympathy with a little gesture of her hand.
storekeeper, his big heart giving in stant response to the little cry. "And on him you've done give a lesson in briar. They ain't a child SweetRoad, girl or boy that ain't the sorter patterned after the General by they mothers, and the way the wo-

Rose Mary's table, "Miss Rose Mary I' wanter show you this Sunday waist I've done made Maw and get you to persuade her some about it for me. I put this little white ruffle in the neck and sleeves and a bunch of it down here under her chin, and now she says I've got to take it right off. most forgot how he looked. Oughtn't she let il stay?"
"I thin, it looks lovely" answered thusiasm. "IIII the waist with enyour mother and beg her to let it stay as soon as I get the butter stay as soon as I get the butter
worked. Didn't she look sweet with worked. Didn't she look sweet with her hair the other night? Did she
let that stay ?"? let that stay?" "Yes, she did until Mr. Crabtree
noticed it, and then she threw away. Wasn't he silly ?" asked Low isa Helen with a teasing giggle at the blushing bachelor.
"It shure was foolish of me to say "But I tell he admitted with a lnugh. you back Mou, girls what I'tlo if plum pretty garment with its white tags. I'll go over to Boliver and bring you both two pounds of mixed peppermint and chocolate candy with a ribbon tied around both boxes, and maybe some pretty strings of beads, Mary ss it a bargain?"" And Rose Mary smiled appreciatively as LouAt this juncture a team driven

men are set on him is plumb funny a litile tin bucket jest to hold cakes for nobody but Stonie Jackson, which he distributes to the rest, fair and impartial. I kinder wisht Mis' Plunkett would be a little more free with -with-" And the infatuated old bachelor laughed sheepishly at Rose Mary across her butter-bowl.
"When a woman bakes little crisp cakes of affection in her heart, and the man she wants to have ask her for them don't, what must she do?" asked Rose Mary with a little laugh that nevertheless held a slight note of genuine inquiry in it
"Just raige the cover of the buc ket and let him get a whiff," answered Mr. Crabtree, shaking with amusement. "'Tain't no with offer a man no kind of young lollypop when he have got his mouth fixed on a nice old-fashioned pound-cake woman,' he added in a rueful tone of voice as he and Rose Mary both laughed over the trying plight in which he found his misguided love affairs. "There comes that curly apple puff now. Howdy, Louisa elen; come across the plank and I'll give you this chair if I have to,"
"I don't wanter make you creak your joints," answered Louisa Helen head as she little toss of her curly head as she passed him and stood by
down the Road had stopped in front of the store, and from under the wide straw hat young Bob Nickols' eager eyes lighted on Louisa Helen's white sunbonnet which was being the milk-house door partly out of down the reins he gave a low, sweet quail whistle, and Louisa Helen's re sponse was given in one liquid note of
"Lands alive, it woulder been drinking harm toa to try to whistle a woman down in my day, but now they come a-running," remarked Mr Crabtree to Rose Mary, as he prepared to take his departure in the wake of the pink petticoats that had hurried across the street.
Then for another hour Rose Mary worked alone in the milk-house, humming a happy little tune to herself as she pounded and patted and moulded away, Every now and then she would glance down Providence Road boward Boliver, far away around the bend. and when at last she saw old Grav and her rider furn behind the hill she began to straighten things preparatory to a return to the Briars In the world-old, drama of creation which is being ever enacted anew in the heart of a woman, it is well that the order of evolution is reversed and only after the bringing together and
by herself comes the command for Rose Mary darkness of the situation. the nieht was as yet in the dusk of of God on the waters, for the voice yet to on the waters, and there was yet to come the dawn of her first day. she finally ascended the the dream she finally ascended the hill toward the Briars with a bucket in one hand and a sunbonnet swinging in the other. But coming down the trail she met one of the little tragedies of life in the person of Stonewall Jackson, Who was dragging dejectedly across the yard from the direction of the back door with Mrs. Sniffer and all five little dogs trailing in his wake, Anod as the frisly sympatny with his waddling along docorously puppies were waddling along decorously while Sniffer poked her nose affectionately into the atte brown hand which was hang. Rnge Mary its usual jaunty swing. Rnse Mary took in the situation at a glance and sank down under one of the tall lilac bushes and looked up with adoring eyes as Stonie came and took a spread-legged stand beore her.
'What's the matter, honey-sweet?' sho asked quickly
"Rose Mamie, it's a lie that I don't know whether 1 told or not. It's si eurious that I don't hardly think God knows what I did," and the General's face was set and white with his distress.
"Tell me, Stonie, maybe I can help you decide," said Rose Mary with quiek sympathy.
hens and Tobe sat down folinh turkey a whole nest of most hatched little turkeys. Didn't nobody know she was a-setting in the old wagon but Aunt Amandy, and we was a-climbing into it for a boat on the stormy sea. We was playing like. It was mighty ed all the eggs. always finds some kind of sme! and falls in it. I know Mis' Potest'll be mad at him. And then in a little While here come Aunt Amandy to
feed the old turkey, and she 'most cried when she found things so bad all around everywhere. We had runned behind the corn-crib, but when I aw her begin to kinder ery I comed out. Then she asked me did I break up her nest she was a-saving to sur prise Uncle Tueker with, and I tol her no ma'am I didn't-but I didn' to the wagon, and Tobe elimbing into the wagon, and it only happened old turkey. It don't think like to me it was a lie, but it /eels like one right here," and Stonie laid his hand on the pit of his little stomach, whieh was not far away from the seat of his pain if the modern usage assigned the solar-plexus be correct
"And did Tobe stay still behind the corn-crib and not come out to tel Aunt Amandy he was sorry he had ruined her turkey nest p" asked Rose Mary, bent on getting all the facts before offering judgment.
"' Yes ' m , he did, and now he's mighty sorry, 'eause Tobe loves Aunt Amandy as well as being skeered of Viney devil. He says if it was Aunt Viney he'd rather the devil would get him right now than tell her, but if you'll eome lend him some britches he will come in and tell Aunt A mandy about it. He's tooken his off and he has to stay in the corn-crib until I get something for him to pu-

Of course I'll come get some trous ers for Tohe and a cleun shirt, too and I know Aunt Amanda will be glai to forgive him. Tobe is always si nice to her and she'll be sorry he' sorry, and then it will be all right won't it P' And thus with a woman usual shrinking from meeting th question ethical, Rose Mary sought
(Continued on page 20)

May 1, 1
Disciplin Pearle II eipline in the he woman will hav acoomplishing th sure

## Discipline in the Home

Pearle White McGowan.
No one can tell how to preserve disoipline in the home of another. Each woman will have her own methed of acoomplishing this. But one thing is sure, it is more a matter of atmos phere than of any set mode or system. To illustrate: On those days when the household machinery runs for ench and there is plenty of time variably good. the youngsters are invariably good. Isn't that so? It's on those tremendously busy days that they are "just as naughty as naughty ceived word that oompany is coming to stay over Sunday, and you know the whole house needs sweeping, and all the baking is yet to be done, and some of the ironing left over from the first-of the week, besides dozens of other things too numerous to menion.
Take a day like this, I say, and all women have them sometimes, and I'll warrant the baby'll have a' fidgety atreak and fail to take his nap properly, while the older youngsters are sure to be seized with an overwhelming pasm of activity and contrariness It's just the sort of day for John teasing the cat, or to cut delight in over the floor and pull all paper all out of the book puil all the books with. In just such was to build a house the mother's such ways as these does ness react 8 excitability and nervousBut what can one do,

## FARM AND DAIRY

Those busy days will come. There is may be assigned little tasks to do if first get thing to do, and that is to too much is not required it heightens femembering always upon one's self, a child's self respeot immensely to feel cipline begins with that family dis- that he is helping.
trol of herself. One mother's con- But the second uneonsciously trials cooly and courageonsly, with arouses their anatgonism. They feel, much of calmness as can be mustered, Without knowing in the least how to remembering often that only thing can be done at time one and thus not try to a time anyhow, upon one's shoulders at everything Again the wise wom at once

## Again the wise woman will not talk

## e

-II Wow kindness brightens and beautifies the home. As the gentle breezes, the warm showers, the sunshine of the springtime all call forth vegetable life and fruitfulness in aature, so kindness brightens, beautifies, and enriches the home life, filling it wirh the sweetest peaze and joy, memories that are more precious than the contents of an alabaster box Qwewerewewereeveree much about she does say will beutics, and what to their own and their mother's tem. wisdom. For instance tempered with pers, difference in the woe it makes all the whether a woman says to ser children "Mother has a big lot of work to T-day. 1 wonder who's going to help me by being very thoughtful and earefulp" or "For pity's sake, I hope you children will be good and not bother know what to do 1 'm so busy I don't The first to do. The first arouses their helpful in- tered. But threats tend only to malse
tinets. If they are old enough they

Therefore it their hest
these hurried it is always wisest on self well ined days to first get one's from well in hand, then expect the best from each child, taking time to encourage him in doing that "best," and nine times out of ten that is what one will get from him.
do don't threaten. That's so easy
to see whether you will keep them or not.
And then again, don't make roles. They bind one to take notice and different sulting wisely and adjusting Farmers' Review.

## Some Helpful Laundry Hints

Saturate grass stains thoroughly vith kerosone, then put in the wash Soak ink stains in sour milk. If dark stain remains, rinse in a weals solution of chloride of lime.
Wash iodine stains with aloohol, then rinse with soapy water.
Soak iron rust stains thoroughly wi h lemon juice, sprinkle with salt and bloaeh for several hours in the ${ }^{81} \mathrm{H}$.

Hot water and soap generally remove greasp spots.
Soften pitch, wheel grease or tar
stains with lard and stains with lard and soak in turpentine. Sorape off all the loose surface dirt with a knife, sponge clean with turpentine and rub gently until dry. Soak mildew in a wealk solution of chloride of lime for several hours and wash with cold water and soan.
scorohed place seorch stains, wet the bleach in the sun with soap and Wash chocolate
Wash chocolate and cocoa stains Th soap in tepid water.
To remove fruit stains, siretch the abric pour boiling water on the stain:


Note the Color of your flourAnd the Bread it makes for you. And the Bread it makes for you.
Delicately creamy is FIVE ROSES flour.
Because it is not Because it is not bleached, don't you
see. see.
Clear-Immaculate-nesirable. A pure Manitoba wheat flour-FIVE
ROSES. ROSES.
And the healthy sum-ripened spring wheat berries are naturally of a golden glow. And the meaty heart of the polished kernels is creamy.
Milled from this eream, FIVE ROSES io delicately
"ereamy."
Which geto whiter and whiter Manltobal! prime wheat. Which geto whiter and whiter as you Innead i .
And your broed is most appetising, un usual/y attrnetive la appearance.
Looles grod.
And 18 rood.
Bake this purest unbleached floun BRIGHT \& CLEANAY

## Old

Buthe
Cleanser
Pull direotions and many,
uses on Large sifter Canyo


All "arlington collars" are good, but our CHALLENGE BKAND is the best

## CANADIAN PACIFIC HOMESEEKERS' EXCURSIONS

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Saskatchewan Each Tueeday until Ootober 2ohb,
inolnaive.
Winnipeg and Return $=\$ 35.00$ Edmonton and Return 43.00 other points in proportio Roturn Idmit two monthe.
HOMESEEKERS' TRAIN, HOMESEEKERS' TRAIN leaves Toronto
2.0. p.a. each Tuesday, May to Augurt, 2.0p p.in. each Tuesday, May to August,
inelumize. Beet Lrain to tahe, ee Wimi.
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Throukh trains Toronto to
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Agonte or write $M$. G. MURPHY,

DRILLING Activities of Women's Institutes den in front of the house

## MACHINES

 Over 70 sizes and styles for driling eltherdeep or shallow welle in any kind of noil
or rock. Mounted on wheels or on aile.
With angines of the With engines or horse powere 8trong. operate them caally. Any mechanio oan WILLIAMS BROS., trach fix

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Weekly parties of Young Men now arriving. Apply:
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Perbaps you would be surprimed to learn that ous of tho moontimio
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by over 300,000 people. If you are by over 300,000 people. If you are tortures pront by the ofrperience of Wm. DeVoy, ros Beventh Avenue. Lothbridge, Alta. who writen as thankful patient to my duty as a thusiasm for tho zreat bleming the
J. B . L . Oascade Previous to uning itas booult to me. a day without a drug of eome aort Since uaing it 1 hrug of nome noth on my
word of honor, gwallowed eente worth of drugs 1
$\$ 300$ in spent over
 Would that all young men and women I see in this town wilh their $y$ pimples might use it uneightwou.
by the Onlaris have been completed ulture Ontario Department of Agriings on send lecturers to 750 meetstitutes between the Women's InMay and early July. A staff of over 30 speakers has been engaged over will cover a great variety of subjects of interest to the homemakers of the of interest to the homemakers of the
Province. Doctors, nurses, domestio science graduates, dairy specialists, instructors in sewing and successful practical women who have had no institutional training, but are well qualified through years if experience,
will act as lecturers. In order that will act as lecturers. In order that the lecturers may have the advantage of uniform instruction in organization and methods of work, and hear work, child welfare, social service, etc., a special conference of workers will be held in Toronto on April 29th and 30th.
The institutes continue to do effoctive work, in so far as instruction
of the members are concerned, in food values, household management, home decoration, beautifying of home grounds, health problems, ete.; and are, from year to year, devoting a little more attention to matters of a purely community nature, such as librarics, equipment of rest rooms, social features, eto.

## The Backyard Garden

By Eben E. Rexford
I want to urgo every woman who loves flowers to have a little garden at the back door, where she can enjoy it every time she gets leisure enough to go to the door, or whenever she ter. It isn't living up to that matvileges to plant flowers in the front yard to be seen by the passerby, while the kitchen is left without any attraction, such as they can furnish.

I believe in making home pleasant for the people who live in it, rather than for those who are not part of it. gets tired with her housewifely duties will find rest, as well as pleasure, in look at the flowers she grows for her own enjoyment. They will give all the more pleasure because they are all her own. They will lighten Iabor by their cheerfulness and beauty, and they will, after a little, become companions from whom she will learn
phey after a little, beome commany things that are not to be learned from persons or from books.

## FINER HLOWERS AND MORE

A backyard garden will almost invariably give more pleasure than one a any other part of the home that it will get the probabilities are result will be finer flowers and the result will be finer flowers and more of them. It will be an easy matter to give them a little extra attention, without having to take much trouble to do it, A dash of water, now and then, a few weeds pulled in the leisure moment that comes many times during the day-these are the things that count, and the flowers that get them will amply repay the owner of the garden in which they grow, by malkin garden in which they grow, by making a brave effort to do their best, just to show how much they appreciate the
attention given them attention given them.
The chances are that the housewife would be too tired to make a trip to the front yard garden during these little intervals of leisure, and she is often too tired to visit the flowers growing there after work is over. But the backyard garden can be enjoyed all day long, and that's the kind of a garden to have. Grow the good oldfashioned flowers in it, and 1 venture the prediction that you won't care very much about the show gar-

I would especially urge the $u$ vines about the kitchen doors windows. Coax the boys to ma frame of lath, or sticks, to for canopy over the door and window supported by strips of wood run in ap from the door or window frame after the fashion the plants up on strings until they tall enough to take hold of the brid and in a short time they will ha reached the framework of the cano and before you know it you will the prettiest awning imaginablehat will furnish all the shade want, and at the same time our outlook beautiful. Especially ing this be the case where the mor ing glory is used, as this will be Farm and Home.

## * $\ddagger$

## Arranging the Kitchen

No part of our home is more impo tant than the kitchen, whether w maid. It does not do to imate furnishing that "fo to imagine whe fornishing that "any old thing" oileloth and soiled rag carpets shoul not be seen in a part of the hou hat from the hygienio point of vien should be all freshness and brigh ness. Our kitchens should be keps scrupulously clean, and they must furnished with this end in view. No unnecemary artieles should
there to ge in the way of the or there to ge in the way of the o pants. The walls ahould be painted or if there is paper it should be ligh
and easils washed, and the floor vo be covered with light inlaid lins eum. Inlaid floor covering oosts in beginning more, but it is the only satu factory one to wear, and it has beet found that light colors are really mon economical than dark. A bright tab of kitehen furnisel chair much apprecisted by that

## 

 THE COOK'S CORNER ing, realpes, eto., sladly anewered sp,
on requeet, to the, Honnehold Editor,
Farm and Dairy. Peterboro, OnL.


Tapioca Ices.-Soak one cup tapies overnight, In the morning
over the fire and when boiling over the fire and when boiling hot a one-half cup sugar and boil till clen Then pour it over one pint draing fruit, stir well, and pour int
Serve with whipped cream

Maple Molasses Pie.-To one beste egg and one tablespoon butter, one-half pt . oream, and one tablespo flour rubbed smooth in some of th cream. Put all this in a pint cul and fill with maple molasses. Ber togethe: and pour into a rich crus Bake same as custard pie. Ioe, if d sired.
Pudding Sauce.-Mix together is tablespoons ench of butter, flour is sugar. Add enough boiling water make a thick paste. Beat well is thin with boiling water until thin starch. Boil well for 10 minute add more sugar to taste and flan With vanilla, lemon or grated nutmey Serve hot with any steamed puddig
Date Pudding.-Mix together ar egg , one cup of sour milk, one cup
white flour, pinch of salt, on: cup white flour, pinch of salt, one cup molasses, one cup of stoned dates nake a stiff douph with one-har spoon of soda (scant) dissolved it little cold water. Mix well and stew three hours. Serve with hot sauce
read Farm and D
especially enjoy artment.-Mrs. $\mathbf{G}$. ute, Que.

## GRANGE NOTES <br> Intereat Shown in Hydr Pow

Shown in Hydro Pawer
Mr. James N. Futcher was sent to
Toronto in the interests of the memt ber of Apple Grove Grange to atof Hydro-Electric power Commission Ty. The delegation from the southern count they on Lake Erie was a large one and they were assured that before
many years Hydro power would be many years Hydro power would be
within the grasp and means of every Within the grasp and means
fermer who would require it.
Mr. Buchanan, Representative of
Elgin, was present by invitation the meeting of Middlemareh Grange on Friday night, speaking on insects, some of the members bringing specimens of apple tree blight for informa-
tion. At the previons meeting Mins. Robinson, gave an illustrateding Miss Kobinson, gave an illustrated address on "David Livingstone, His Work and
Character," after which the amnal sugar social was indulged in. Two now members were initiated into the mysteries of the order.

## The following elip St. Thomas Times :

ofrow the An interesting meeting was held at subject, "Alfalfa," was ably handled of J . O. Orr, of Talbotville, who told

of the wonderful properties of this valuable forage plant. Mr. Orr has made a sucoess of growing stfalfa, of the very best quality of hay which is greedily eaten by every kind | stock farm. He told of pure-bred |
| :--- | sining too fat to be useful, and of onttle doing exeeptionally well on a diet of alfalfa. The selection and

preparation of a well-drained field, preparation of a well-drained field,
the choice of home-grown seed of hardy variety, the sowing with a lighi nurse crop of barley, the care during ods of harvesting, were points well eovered in Mr. Orr's address.
An interesting discussion among be culture of ths clover, took place loring the evening. Some had found at most of their last year's seeding
d been winter-killed, but they were

## 

$\mathbb{C l}^{\mathrm{HE}}$ only mea who build institutions are the men who are true to their women, true to their children, true and loyal and reverential toward old age.-Eibert Hubbard.
"erereepepereweree bing to try again. Altogether the pening was well spent, and a hearty
pote of thanks was tendered Mr. Orr bor his lecture.

Elgin county grangers are quite filling to give grangers of other counes due credit for the good work they shing a photograph of the members the Elgin County Grange and statpg underneath it that the people hose likenesses appear, come from lgin county, pebple will stand for beh a mistake oceurred in Farm and airy, April 17. $\mathrm{O}_{\mathrm{n}}$ the front oover as a group photograph of the offioers the recently organized Elgin Coun-
Grange, not Essex as makes the editor feel there stated g a first-class kicking machine when istakes such as this oceur.
I read Farm and Dairy every week especially enjoy the Poultry De-artment.-Mrs. G. Stamiforth, La-

Care of Lamps
A manufacturer of lamps has the following to say in regard to the:r "The reason lamps smell and give poor light is because they and give kept clean, or because the wick is poor or clogged by having been used too long or else the chimney is "A

A lamp should be cleaned, trimmed, and filled daily. Trim by rubbing the char off the wick. This leaves it even. Wicik should never do it evenly. Keep the tiny ble to in the floor of the the tiny boles in the floor of the burner clear for
draught. raught.

Lamps should never be quite full. because the oil expands with heat, explosion is liable to take placen an

## -reperep <br> If NY man and every man who about the thit of his heart, and talles about the things he has done and that he knows, is always eloquent, always effective, always convincining. $E l$ bert Hubbard. <br> erebebereberewere

"Boil the burner in strong soda water once a month and empty the
fount whenever any sediment ap-
"Light a lamp with the wick turn
 the wiek is turned high at once, and there is, too, more danger of the
chimney breaking.

## About Washing Bed Clothes

 Mrs. W. O, Palmer, erters, choose a warm sunny day so that they will dry as quickly as possi-ble. Use soft water if it can be obble. Use soft water if it can be ob-
tained.
Woollen blankets should bo washed in luke Warm water, never in hot or cold water as it shrinks them. Use a len soap. Pup or scme reniable wook for 15 minutes in warm water, soaping the blanket as it is put in the where the on a little extra soap Where the blanket is most soiled.
After allewing to soak, work After allcwing to soak, work the blanket around in the tub, rubbing between the hands and applying more soap where needed. Souse the blanket several times and wring into another warm water, going over the blanket to see if any soiled places have been missed, Rinse a second time, wring. iag the blanket as free from water as possible. Shake well befere hanging up to dry. Roll each corner a trifle and pin with a small safety pin to prevent the corners from whipping out. When dry they will be fluffy and soft, ready to fold away for another winter. Ancther way is to streteh the blankets on a curtain streteher, Never rinse double.
water as it tends to bormfers in cold water as it tends to harden the cot-
ton batting. Comfortera in the same way as blers are washed in the same way as blankets only the water should be fairly het and they good hot sonpy water to locosen in a dirt. The ends cr any parts up the rubbed on a washboard or washed in the washing machine. After the comorter are dry, roll and beat with a smooth round stick. This will loosen ap the ootton and make the comfortars more fluffy.
Wash quilts the same as the corsforters except that where the colors will not run they should be scalded 0 make them more clear and fresh.

-     * 

Farm and Dairy is oertainly paper brim full of useful information for farmers and agrieulturists. George Yeo, Oxford Co., Ont.


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Experienoed Farm Hands and Married particularg with poamitions. Send for
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Send us $\$ 1.00$
Nownem plain colored cashmerette, in red, oream and navy; beautiful150 made, juat ae pietured. Add STANDARD LONDON. ONT.

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WINNIPEADAY until Oot. 28 incluatve WINNPEG AND RETURN

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## To ALBERTA AND SASKATCHEWAN

 Every TUEBDAY until April 29 th in Hope, Peterboro and Weet Ontarlo, Port ratea,Through ooaches and Pullman Tonr
int Sleeping oars are operated to WINNF iat sleeping oarg are operated to WINNI.
PEQ Without change, leaving Tononto i1.00 p.m., via Chicago leaving Toronto
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the shortent and quickent Railway is tween Winnipeg-Sackatoon-Sdmonton.

Berth Reservatione and particulare
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## This Engine Runs on Coal Oil

Every farmer ean affond an gilis Ooal On Worlne. They give far more power from soal oll than other en
ifnee do from gheoline. Thay are safe, as well an thee do from gheoline. They are anfe, as well an The atrongreet and exploelon or ftra.
three moving parts, pothing to get ont of repait; only one oan run it withont experlethot out of repair. Any. fled enstomers wie thent experitenoe Thonaande of anyis anw wood, pump, threeh, run eream separators, ail aflos, dovena of other tole Oheaser than borsers, or hired
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## PREB TRIAL FBR EOD It.

and as angive anywhere in Ganads on Thirty Do take our wond for it. We'tl full instruetione for tenting on your work. If it does net Thit, We furntalh to get it bexpense. We pay frolght and daty to doen it to yoult yon gend it of satisfled uners. Apeelai for it years. Write for froe antalos and opinione 3 to 15 horse,ppower
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Ellis Engine $\mathrm{C}_{0}$.,
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It is not much wonder that Mr. Allan schiedel, of Now Hamburg, Ont, is a
stauneh friend of Douglas' Egyptina Iiniment. Here is what be writes about ite for him
"I have now used Douglas" Egyptian Linimant for ? years, and find it gives the I tried the liniment on 4 cown during the winter for lump in udder, and a anmple winter for lump in udder, and a sample
bottle oured each case in 36 hours. I almo found it good for Musenlar Rheumatism and for Lumbago.
hand a botlle thing to always hove on hand a bottle of Douglas' Egyptian Liniment it stops bleeding at once, preventa mation, soreneen and swelling in man of beast."
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15\% Nitrogen $18 \%$ Ammoni ALL IMMEDIATEL.Y AVAIL.ABLE The only Fertilizer tha
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The result of over 100 years expe with calf ralsers, As rich as new milk at tess than half the cost. Makes rapld growth
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cessfully Without Milk: cenfully Without Milk'
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STEELE, BRIGGS SEED CO. Torente, Ont.

## Rose of Old Harpeth

(Concluded from page 16
to settle the matter in hand out "No, Rose Mamie, I ain't surs about that lie yet," asserted the General in a somewhat relieved tone about the moral question invo'ved in the case. "Did I tell it or not? Do you know. Rose Mamie, or will I have to wait till I go to God to find "Sut"
itted Rose Mary as the know," adli:tle argner to her and rested the cheek against the sturdy little shoul der under the patched gingham shirt TIt was not your business to tell on Tobe but-but-please; honey-sweet, let's leave it to God, now. He under-
stands. I'm sure, and some day when you have grown a big and wise man you'll think it all out. When you avill Yes, I reckon I'll have to wait till
then, and I'll tell vou sure, Rose then, and I'II tell you sure, Rose
Mamie, when I do find out. I won't


A Noted Breeder's Unique Home
The name of F. R. Mallory in familiar, by reputation at least, to Farm and Dairy
readers. Thls illustration shows his comfortable Haatings Co. Ont., farm home.
Photo by an editor of Farm and Dairy.

Toher forget it, but I hope maybe Tobe won't get into no more mess the britches for mef" "And consoled thus against his will the General followed Rose Mary to the house and into their room, eager for the relief and rehabit:ig of the prisoner.
And in a few minutes the scene of IViss Amende honorable between little miss Amanda and the small boys was out of sight and hearing of Miss Lavinia. A new bond was instituted hetween the little oldelady, who was tremulous with eagerness to keep the
culprit from any form of self-reculprit from any form of self-re-
proach, and Tobe, the unfortunate, who was one of her most ardent admirers at all times. And it was sealed by a double handful of tea-cakes to both offenders.
After she had watched the boys disappear in the direction of the barn. intent on making a great clean-up job of the disaster under Misa Amanda's
direction. Rese. Mary wended her way direction. Rose Mary wended her way to the garden for a precious hour of mble nursery sabies. She had just tncked un her skirts and started in with a light hoe when she espied Thcle Tucker coming slowly up Providence Road from the direction of the north woods. Something a bit dejected in his step and a slightly greater stoop in his shoulders made her throw down her weapon of war on
the weeds and come to Jean over the the weeds and come to lean over the all to wait for him.
"What's the matter,
iredp" she demanded as ho enme alongside and leaned against. the wall near her. His big grey eyes were troubled and there was not the sign of the usual quizzical smile. The forelock hung down in a curl from under the brim of the old grey hat and the lavender muffler swung at loose ends. As he lighted the old cob his lean brown hands trembled alightly and he utterly refused to look into Rose Marv's eves. "What is it. honey. heart?" she dcmanded again.
(To be continued.)

Uses of Milk and Cream
tlice A. Ferguson, York Co., On
Milk is Nature's provision for a perfect food. It is both food and drink, and, if necossary, life could alone. We do not give milk the place Po our tabies that it should have. People who have plenty of it. trent it lightly, and those who have difficulty in obtaining it are forced to use only
small quantities. Frequently the treatest economy would be in purchas ng and using more milk and less of some less nourishing or not as ensily ligested food.
The use of cream is as beneficial as mive oil. A certain amount of fat in the machinery should work properly Milk products - cream and butter are oxcollent Inbrionats and body builders. More milk and less mody buiders. More milk and less meat mproves the complexion, - note the clear pink and white complexion of
the milk-drinking child. Grown-ups who drink milk to the exclusion of
tea and coffee have fresher, cleaner skin.

Milk whoLbsome sours
holesome soups are casily preparech milk should appetising. In fact n't soups. When making vegetable soup. with soup stock - the broth from to give it time to tharoughly cook, later choped vegetables onions. carrots, celery and a little cabbage.
When thoroughly cooked and dinner is nearly ready, add milk; let it come to a boil, and it is ready, and much
better for the milk. In the cold weather I make ain cood supply of soup. sufficient for dinner for three or four days. When getting dinner, I put suup for a plate each. When it is sup for a plato each. Shen it is
hot enough 1 add milk, see that it has the right amount of salt and pepper. and serve it hot for a first course. The
stomach readils stomach readily absorbs the liquid nourishment. and the edge is taken from the hunger, and the heavier food can be eaten more leisurely.
For chicken soup mode of broth after the flesh has been cut off-ald rice. celery and onion, and when done. add milk. Also add milk as a finish to bean or pes goup, always giving it but watch it, for it is likely to boil
Vegetable oyster soup is a good substitute for the real oyster. After cleaning the vegetables, by scraping the roots, put through the chopper. and cook in water for a short time. Either allow the water to boil away until there is little left or drain it. Add plentr of milk. salt., pepper and butter and serve hot with soda bis fact. hot milk, with salt, and pepper added, and soda biscuits hroken in the milk, makes a fair imitation of oyster sono, lacking only the oyster or an added ralish.
If one feels the need of food at bettime, hot milk served in this way is out induces sleen. If sleep does not come nt your call. get no and take cup of soda bisenits and milk. adding yalt and papper if you chosse. The tomach draws the blood from the brain. in order to assist in the diges tion. and sleep comes
Milk puddings are light and nour-ishing-rice, tapioca, corn starch. or cus'ards. Iee eream is a de'ectable cod, as it combines the rich crasm hth flavors in a tempting manrer. Buttermilk is it corractive for the fiver: and can be kept in the stomach when nothing else can. The doctor orders his patients to take plenty of milk and cream. Use plenty of it and save the doctor from presoribing.
 This pattern is out in a
TUCKED

## TR. 389

 tho lakes. quot
Yo. $2,41 / 0 \%$
Yio: Ontario peas, 81 to 81.0
She; ryes 600 to
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Ontario bran, real bran is quot The demand

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Have you some bulis for sale? there are buyers amongat our will pay your prien and whe will pay your priees for good erd sires.
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 Guotationa M1L. FERDS
 Outario bran, $\$ 20$; ehorts, sit. At Mont$\$ 82$ and middlinges, $\$ 394$ to $\$ 8.500$; mortes, HAY AND STRAW
atronger and priees have advanced hay is For lower grados the market is dill 60 ,
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real, while the poorar | on the market. No. $1 / \$ 14$ to 814.50 , No. 2 , |
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## Breeder's Directory

for common to medium aad $\$ 50$ to $\$ 75$ for
epringers. Oalvce are in
83 to 88.50 .
beliveries of eheed and lambe have been
no amall ae to attraot little attention Eo amall ae to attraot Little attention.
Lat weok's pricee prevail. Lambe, 88 to 8. 50 ; owes 80.50 to prevail. Lambe, $\$ 7.25$; bucks and oulle
$\$ 8$ to $\$ 5$. Homs oontinue in atrong demand at 89.25 EXP Bowe at $\$ 7.75$ f.o.b.
EXERT BUTTER AND CHEESE het here for checee forr into ehape for the soaeon's trading, but other years owing to the eompared with toring wenerally are stow in fies. The theof this year, and alo guan getting etartoffering in many seetions is eonsiderably
reduced from prever on mily reduced from provious years. Fureher more, there is considerably more orearfor shipment to the this aide of the line oially in viow of the probable neduotion eome effeot upon our output of to have This year and in the yeara the new for Lo al lb
The market for butter is alowly an ateadily declining in the faoe of the in made 部 receipts, and finest quality frenh MONTRBAL HOG MARKET
treal, Saturday, April feeling prevaiturday, in the market for five hooss this week and prices market for live
with a good demelanged with a wood demand from perolvers, and seica of reiected lota were made at 810.25
to $\$ 10.35$ a ewt., weighed off care. Wae no change in the market for dreased hogs for which the demand was fair at

AYRSHIRE TESTS TO DATE (Continued from last week) Tanglewy Two-Year-Old Clast Aros., Rothsay, Ont., 7,001 loses- Wutter, 3099 ibg, fat, 4.46 per vent fat in 365 daye.
Thaglewyld Tanglewyld Queen 2nd- 5299 -Wood Broe., $6,980.75 \mathrm{lbs}$, milk, $30 e .18 \mathrm{lbs} . \mathrm{fat}^{2} 4.33$ por oant fat in 364 days.
our subsaribers. Any intereeted are inviled to ask quentione, or gend items of interest. All gnes
tione will receive prompt attention

## FP?

YORKSHIRE PIGs, all agee, elther gez.
Obolce Young Boars, fit for Bows of all arear, bred and heavy with
pif.-1I. O. Benfleld, Woodetook, Ont. For sAl.E-2 Sone of King Fayne Begis
 FOR TAMWORTH SWINE-Write John W HoLSTEINS-Young O. B. D. No. 1 HoLSTEINS-Young etook for sale, Bired
by Imporial Pautine De Kol, whose neareat dame average 36.20 Kol, whose 16
7 dayn.-R. W. Water in

## The Opportunity of a Life-Time

## For Westerners

secure pure-bred Ayrshire stock, acclimatized, and
many of them qualified in the R. $O$ P. .

Recauee theen eattle have the

## 70 <br> HEAD

A. H. TRIMBLE \& SON
(21)

JERSEYS coloem fan ho staim OF HEAVY PRODUCERS for dervioe; it Yearling Haifeas Ralle resdy both male and female; and females of al
Wrisit our herd (40 cows now milling).


## AYRSHIRES

## Burnside Ayrshires

 Winners in the phow ring and datryterte. Animale of both ewaes, Importes Long diatanoe 'Pred, fope fale. R. R. NRSS, . . HOWICE, qUR, TROUT RUN AYRSHIRE BULLS


 Prices low conefideriag quality. Also one Ex
hibition pair of large Troulous. hibition pair of large Toulouse. Also one Ex
Rook Cookerells Sas For partleulara write B.P.
WIILIAMTHO WILLIAM THORN, Trout Run Stock Farm
L. D. Phone in houne
LYNEDOCH, ONE

## LAKESIDE AYRSHIRES

Boif aro ofloring a number of Ano Toups eito of difonco "eam er od Mn Youms
 der number of the otheri, atho tho derm of der neit for the Record of Performant unt

Hot Mot Jaoment, Pront
SUNN YSIDE AYRBHIRES obologort broeding Home brad are of the Young Bult dor produouth and Thati Nethar Hall appod the rat sired by

J. W. LoanN, Howlok station

TANGLEWYZLD AYPSHIDE 14
3 YOUNG BULLS (Bept. and Oot, 1919) sired by Rogal Btar of Bonnd Bot. (192),




|  |
| :---: |
|  |  |
|  |  |
|  |  |

Burnbrae Ayrshires


 a.dam Primo ion buter fat (i, isis), R. O.P. recond $16,1 \% \mathrm{l}$ the. mills and 625 libe ,
butter fat. Alter fat.
Also a s-weeksold Bull Oalf, a full brocolor bulls. Write . JOS. hudson aison.

LYN, ONT.

## IMPORTANT AYRSHIRE DISPERSION

 No Need to Buy in the EastOn account of extenaive building operations the, toward the end of May. diepose of his entire herd without reserve.
Herd headed by Barcheskie Kingers.

ALBERTA

## HOLSTEINS

 HOLSTEINS FOR SALE




Concentrates

 CRUMPSEY \＆KELLY，Doverccert RA．，Torento，Oet．

LAKESIDE DAIRY AND STOCK FARM Preest offering，Bull Oalvee
from Reoord of Performance
dama；aloo W．R．BeLL，BRittanma nelomts，ont Ottawn Bell＇Phene．

## OXFORD DISTRICT <br> <br> The Holland of North Amerioa

 <br> <br> The Holland of North Amerioa} In the place to buy Holoteina of quality， Pity of Woodstook on March 23 th， 1991.Full IIst of breeders in the Oxfond Dietrict Full inst of breeders in the Oxfond Diatriot
With post office and atation addresses sent R．J．KELLY，sECY．，tillsonbura，ont

43.34 Ibs ．Butter in seven days 170 ibs．Butter in thirty days
are the latest world＇s records
King Segis Pontiac Koningen LYNM RIVER STOCK FARM




ELMDALE DAIRY HOLSTEINS



 if you want her．TAVISTOCK，ONT

| BULL CALF FOR SALE <br> Sired by Inka Syivia Beets Posch <br> A Half－brother to Pet Poesch De Kol， <br> The calfe dam has a daughter with a reord of 36.64 butter，sae milk in ？ days．Best day＇s milk was 95 libe．Bhe averaged $n$ the for 50 days．Another danghter made over 25 the． The above calf is a atrong built one： and wil make a trood herd bull for some one He will be priced within 年 reach of any man．For forther par－ RAYMOND NORTON，BLOOMFIELD，ONT |
| :---: |

## HOLSTEINS

Hymon mand
High Testing HOLSTEINS For Sale



## CLOVERLEA HERD

 IT PAYSLet us gart you right．We sell．

We Brecus．We Buy． | JOHN J．TANNAHILL， |
| :--- |
| WHITE＇S STATION， |

Lyndale Holsteins

 Brown Bros．，Lyn，Ont． RIVERVIEW HERD

## sired by King Lasbem 8 Wo 18 monthe，


 p．j．balley．－lachina rapids，oue．

## North Star Holsteins

 Bumb road for mervioe trom， H 0 ．Mi Also Females，any age，excepting heifer
calves．STEWART．
J．W．STE

## Two Holstein Bulls




## HOLSTEIN BULL CALF

 FOR SALE
## 

## J．O＇Connor，Camp bellford，Ont．

CAMPBELLTOWN HOLSTEINS


## MAPLEGROVE，CRESCENT RIDCE

 and WELCOME STOCK FARMS Buther Kion of the 3n．．．00 © Kive of the Also Hull Oalven，aired by our sreat King Lyons Hengerveld，who la beyond dimpute the Domivion，having more over 30 lbe．
butier and over 100 lbe．milk in a day To a $40 / \mathrm{b}$ ．oow than any oloner related
These calver bull． Grova type，and out of high Maple
R．O．M．cowe：also a fow $\mathbb{R}$ O．M ing

 H．BOLLERT，R．R．NO．I，TAVISTOCK，ONT


## HET LOO STOCK FARM，VAUDREUIL，QUE．

GORDON H．MANHARD，Manager

6．738．75 lbw milk， 288.14 lbs fat， 4.38 per cent fat in 340 daye．
Bluebell－ 3.761 Wooddime Brow，Both－



 B．R．Nese，Howeriek，Oupato



 Hanadian Ayrahire Breeders＇Amociation
Huntingdon，Que．，Agril lith， 1913. cuiss lbs．butter in seven days This io the lateset record of spring Farm
 Worid eponkine of this recorad as follows in

 pion；but even betore the ink wio droam
 in wen dase this wonderui ow oner



 ar than the average por jhe so ditle high



great bull for，norfolk coúnty In a moont lotier to Yarm and Dairy．
slevena
Broe，of Liverpool，N．Y，Dake
 that they have reoently shipped to Can
ada：
Mr．J．Alex．Wallace，of Simeoe，Ont
purohased a splendidiy purohased a mplendidiy brod young buil
from ue－King Segis Pontiao Koningen．
The sire of this Trom us－King Begis Pontiae Koningen．
The sire of this animal is King Begis
Pontiac，a son of King Serlation
 untter in aeven days； 145,29 ind，bo butter in
50
daye； 225,318 lbe milk， $1,271.6$ ibs．butter In 36 odaysi all throe world＇s rocords at at
ime of making．She is the only cow in time of making．SBe is the only cow in
the world that ever made a 301 lb offioial
reoord at three sueoesive calvings and
has made a remer has made a remarkable showling in ond
cial work every time she has free
She She wask by Pontiac Korndyke fromened pound daughter of Hengerveld Dromol，and
was full eister to Pontiae Rag Apple Way full eister to Pontiae Rag Apple，who
Wea sold for 88,000 eaeh． The sold for $\$ 8,000$ eash．
The dam of Mr．Wallace＇s bull ia
King Pontiag Diona．Pieterje，a mplendid
daughter of King of the Pontacs King Pontiae Diona Pietertie，a aplendid
daughter of King of the Pontiace As a
junior two－year－ola she milted $7 \%$ the of milk in a day．In eeven days ehe pro－
duced 485.3 lbe．milk， 20.25 tha．butter，and duced 435． 3 lbe，milk， 20.25 lha．butter，and
in 30 daym $1,909.8$ lbis milk， 30.99 lhs，but ter．She traoes to Koningen Van Pries
land 5 th， $19,700 \%$ Ibe mill in a year se
 never yet equalled by any other cow．
＂King of the Pontiaes，sire of King Do ＂King of the Pontiaes，sire of Kine Pron－
tine Diona Pietertie，is now sire of 何 daughters with official reconls．Thirteen word＇s butter records have been made by
his daughters．He is aire of the new
world＇l ohamploter world＇s ohamplon， 4.15 lhs of butter in
seven days， 172 lba butter in 30 days．One
sister of King Pontias Dina Pietertie seven days， 172 lbs butter in 30 days．One
Eister of King Pontiac Diana Pietertje
produced 8,1064 the milk， ter in a sear＇s somi－offictal test in ber
iwo－yearold form，and a funior four heer
 two year－old，King Pontiae Manor Kate
hids the world＇s repond for ago for both
mills and butter，and the four－geor King Pontias Lilith and the four－year－old，
more milik，produoed more milk than any beifer of her age
over did in the semioficial thent，and
made the mepond Iargest lon made the seoond largoort butter reeord
ever roported for her elaes．
ithe sistens of Ingren are making a fine showing in off－
cial work．The firat two threegngrt or teru to freahen made 19.86 lhe quarter gutter and
20.25 lhe．butter in seven dave reapootive ly，the firmt ae a yearling，the mepoond an
a two－yentold By three－quarter siaters
we mean heifers alred thy． we mean heifers alred by King Segle Pon－
tiae from daughters of King of the Pon－
tiacs．Eight thounand dollars has been tiacs．Eight thoumand dollars has been
offered and rofited for four yearing heif－
ers，three－fourthn sietern to King Aegis ers，threefourths sietere to King Beris
Pontiac Koningen． The joung buil
individual．one of individual，one of himaelf is a
the enowrieet
recont gears．
beceed and breed and
amme for

The bent producin
blood of NOTED cow DEAD
which two yeare aco won the oow reoord on milk produetion for all periods
up to eleven months and misped the reoord for a year only by a amal dairy department of the College of the culture to got selientifio College of Agri garding her mills organis．
Bhe was elevon yearl She was eloven years old and had oeae
ed to be of value for breeding and of small value as a miloh cow．When ehe
Was on teat she produced 86.866 ，peund of milk in a yenr．For the fint six
months of her period on tevt she protuced
in everage an average of period on test she protucod

HOLSTEIN COW BRINGS $\mathbf{2 7 , 0 0 0}$ ， ter in meven days，was sold at the byra ter in geven days，was sold at the $8 y \mathrm{ra}$
suee sule recently for 87,000 ，thus makimy averion．Thia a Holetelin oow at public
ducer and a wonder as a pro Wucer and a beauty in conformation． 8 bhy Was oonaigned from the Orumbiorn herd
Pompton Plains N．J．，and wae bough Her daughter Johanna of A Alponguin．III 2nd，very like the dam in shape and
markinge，coming three years old，eold for 81,850 to J．A．Btanton yeand old，Bold
Woodetook，N．X．Nem ouse sale wigh prices realized at the Byra
 Pontiae Kuperus，a yearling bull by King
of the Ponkiaos，si，500 to 11 D．Orowemen
Weedioport， Weedaport，N．Y，；Rubg DeKol Korn
dyke jrd，y yearling heqfor by Kiny of
the Pontiacs，$\$ 825$, and her twin siste or seso．
Taking
Taking the sale as a whole， 300 head sold for 5120,000, an average of 4,000 a
head Johanna DeKol Van Beors Leaded
the sale Another notable the sale Another notable sale was that
of a King Sogia－Pontiac Korndyke
dropped dropped lant Degia－Pontiac Korndyke oalf，

QUALITY OFPERING
In a letter reonntly reoolved by Farm
and Dairy，Mr．Raymond Norton，Rloom：
field，Ont．，has the following to
 two oows．One of thices，Princevs Dixie
De Annadale，out of Colanthins Able only
ie the dam oftering．She of the buil calt thmotionk， 1 ant Tillonghurg．she hae flve Kd ．D．Thilison， from 18 to 19.79 pounde butister in 7 days．
Disie＇s record is is．．e low，made juet after
being ehipped from Tinnonbu being ebipped from Tillaonburg，oondi－
tions then being against her．Sae has
daughter that

 daye The sire of the oalf I am ottering
is the well－known Inka Byivia Beet
Poeoh，and needs no fut HOLSTEIN TESTS
Continued from last week
Junior Twir Year－01d class 1．Inka，Syivia Frontier，16616，at thd．milk 4612 Ibin．；fat 15.86 ibe．，equal．
to 19.85 the．butter． 5 mm ． Thirty－day reoord
 B．D．Beulah Pauline DeKol，Toent，
 18.62 lbe，butter．
Thirty－day reoond

## $189.5 \mathrm{tbe} / \mathrm{i}$ fat 6189 lbe ，equal to 77.48 ith butter．

 butter．Owner Colony Farm，Ooquitla－frgB．O． 3．Fairview，Korndyke Boon Johenna， 18008,
15.06
Twe
milk




 Tavistoek，Ont．
7 ．Meroena Bolauiling 5 th， 17467 ，


Eight Months．
Junior Pour－Yenter Calving


20 d ，milk
to $14.13 \mathrm{lbe}, \mathrm{b}$
Bronte，Ont
one．but
W：
OLamons，Beoretary

butter ing $\frac{\text { another, }}{7}$ dasa Queenio L. 26.67 lb . Mhr Cooderhimm had but two bull antvee
When oo dorw them and they are dandive
One of them he has

 in the Manor Farm advertisement
Mr. Kelly, of Vanesin, has gotten bull in the one he purchaeed out of
Queenie $\mathrm{L} ~$
$\times 6.67$ tbe butter in 7 days, and quilk testing 5.25 per oent, fat. This is a
great eitrong ealf with every, appegrane great strong ealf with every appearance
of being a great doer. He has a little
more blaek than white, but th beautifnlly
marked and has an altract

## HOLSTEINS

## - INKERMAN <br> DAIRY FARM

 Tising 1 Yo. orde dired by ein of Aleo Buill ana Helter Colve. nitbeot in andirn inter calive WM. HIGOINSON, INEERMA

## Ourvilla Holstein Herd

 you want them from here wo would adyiae you to buy young. Only tioo conive loft Aobek aro by Drom Davind and 2.06 lbe libe ty yoaroide. Grand tndt.

Avondale Stock Farm MARDY, PROPRIETOR. HERD SIRES

Dam, Princesi fiendervela De E ot,



an, days, Artis, 31.7 Ibs, butter
Daughters of Fengersol days.
We are offering bulle from the Kol. siree and hifh rooond dama, apd sigo a imited number of oow in oals to them
Vo helfer onlf will be eold at may priee. Addrees all oorrepondence to prioe

## FAIRVIEW FARMS HERD

Ofters
Bons of POWTIAO KORNDYKB, Poady for service is the near futare or younger,
eons and danghter of SIB JOHANNA OOLANTH danghtern to be oflicilly tented sverage better than 20 DI, whose three finct
 anythins that you want ta firat-clase Holstelns. in the world. Write me for E. H. DOLLAR,

HEUVELTON,
NEW YORT


## The Manor Farm ANNOUNCEMENT

Did you know that my great herd sire, Prince Hengerveld of the Pontiacs, has for a sister, "Spring Farm Pontiac Lass," No. 106812 , which recently made the
world's record, and a most phenomenal 44.152 lbs. butter in 7 days

She did this in last 7 days of her 30 -day test; the 30 days she made over, 171 the butter, and for over.
100 days her milk averaged $6.2 \%$ in butter fat.

FOR SALE-One bull calf sired by above bull and out of Mercena of Campbelitown, 23.57 lbs , butter as a 3 -yearsire, and sire's dam of this bull the dam, the granddam, the at the sire's dam of this bull ealf! He is a great buy at the exceptionally low price I ask for him, only $\$ 150$. He
is nloely marked, strong, straisht, rangey and marked, strong, straight, and of great depth, rangey and open. He has that buil head like you always want is very strong in the bone, is woll earried out and COME AT ONCE TO SEE HIM, YOU HAD BETTER

No, 2, out of 0ueenie 5.25
last week in Farm and Dairy, $5.25 \%$ fat, and as advertised Kelty, Vanessa, Ont. Dairy, I have Just sold to Mr. Arthur

Kindly bear in
Manor Farm where thind that you are invited to visit the having records up to nearly 30 its will delight you, they


## GORDON S. GOODERHAM

The Manor Farm - Bedford Park, Ont.

## EGGS, BUTTER and POULTRY

For best results ship your live Poultry to us, also your Dressed Poultry, Fresh Dairy Butter and New Laid Egga. Egg PROMPT DETURNS
${ }^{\text {The }}$ DAVIES ${ }^{\text {co. }}$ Toronto, Ont.
Selected Seed Potatoes
Improved Empire State, a blight renist-
ant gtrain, very heavy yiolder and lesg liable to rot than ordinary glock. \$1.50 ant, and Delaware (or Green Mountain). $\$ 1.25$ per bad. ALFRED HUTCHINson, MOUNT FOREST,

ONT.


Build Silos, Dweillist, Anyclass of building from
Coacrete Block. The Lon-
ion doa Adjustable Concrete
Block Machine makes
everk every kind and siate of
block High grade
Moderate price or wion Moderate price, Wull We
manufacture a ffill line
of Concrete Machinery. LOMDON CEMCRETE MACHINERY CO. Dept. B., London, Ont.

## YNOPSI OF <br> FNOPSIS OF DOMINION LAND REGULATIONS

 family persen who is the sole heed of may homentead a quarter meotion of available Dominion land in Manitobe. Bakkatebewan, or Alberta. The applicantmnit appear in permon at the Dominion Lande Agency or Bub-Ageney for the die
triet. Entry by proxy trict. Entry by proxy may bo made at father, mother, on ourlain oonditions by or eifter of intending homentender. Duties- fir monthas reeidence npon and onlifiration of the land in each of three nine milles of his bomestead on a farm of at leath by him or by his father, mother pled by him or by his father, mother In sertain districts a homeste sood etanding may preompt a guarter potion alongide his homestesi. Puarter Datice-Mart reaide apon the home atead or pre-emption six monthe in oack of aix years from date of homentead antry (ineluding the time reguired to afty homentend
h homesteador who has exhausted his bomestead right and cannot obtain a pre emption may anter for a parchased home
stead in certain diatriote. Price, \&s.00 per are. Duties-Muet reeide six mouths in each of taree years, cultivate ifty acrees
and ereet a loonse worth $\$ 300.00$ Deputy of the Wi Wintery, D.B.-Unty of the Minigter of the Interior. N.B.- Unauthorined publication of thid

GASOLINE ENGINES if to $s 0$ H. P.
Statlonery Mounted and Traction


WINDMILLS Grala Grladers, Weter Boxes, Eteel Baw Fromes, Fumps, Tanks, whe. COOLD, SHAPLEY \& MUIR CO., LTD. Brantlord Winaipes Caltary soned. it had retained the resinous sap which adds strength and toughness, while in the kilndried piece of lumber this sap had been drawn out by
Every Stick of Lumber Used in IHCWagons is Carefully Selected, Air-Dried Stock
Here was something to think about. The visitor asked for a test as to the relative streugth of the two pleces of wood. The air-dried piece held up under dried piece of lumber broke. The workman explained how the comparative life of air-dried and kiln-dried lumber has about as great a diference. these two eye there was no difference between these two pieces of lumber, but when put to


2*-
the test there was a vast difference. So it is throughout ham. They constrion of 1 H C wagons-Petrolia, and Chat ham. They are built for real strength, light draft, and After seeing the every part of an 1 H C wagon, the construction of "Wery part of an 1 H C wagon, the visitor asked: used in selecting material and in constructing I H C wagons?
This is what we have been trying to do, but we cannot tell it all in one short advertisement. I H C local agents handle the wagons best suited to your work, see them for literature and full information, or write the wearest oranch house.
International Harvester Company of Canada, Ltd eastern branch houses

Altumb:

$010-0-000$
(111)

道
Fertilizers on bowe price fiven zers, Complete fertilizers, Nitrate of Soda Potash, Superphosphate, ete. Write us of
your needa and ank for prices. CRAMPSEY \& KELIY, DOVERCoust RO, TOROMTO, OHT

S3 a Day Sure



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