

Capacity
Lulu Keyes-Owned by D. B. Traey, Cobourg, Ont,

The Development of the Dairy Heifer By Prof, Barton, Maedonpld College.
The Control of Contagious Abortion
Hyglenic Measures Recommended
The New Driry Act
An Outlice of Its Features.

Success With Alfalfa
Some Practical suggestions.
Interior Decoration Scheme
For Farm and Dalry Houes, No, a.
Many Practical Articles
On TImely Subjeets.

## The "SIMPLEX" Cream Separator

An shown in the Hllustration herewth, is a convenient maohlue. It is of convendent hesght to operate, he supply can is low down, and yet the discharge pipes are hichs enough up to dilik cans.
milk cans
The machine is eavily tecesasible for cleaning. It is subatantiar and heavy,
most a lifetime.
It will pay you to know all
about the "simplex." There are about the "simplex." There aro
exuluathe features on the "Simplex" not to be had on any ther separator
 The favorite everywhere it goes:
Note its beauty and heavy compari construction, with low-down, hand supply can only $3 / 2 \mathrm{ft}$. from the fioor

In adefition to the mechantoat conatruetion which is all to the good in
your favor, we are sury that there ia no manufacturer asing a hishor
grade of matertal than we use in the "Simplex" anparntors. instance, the bowl apindle. It in made of a spectal formula, furnished by one of the best metallurgists in the country. In fact, the conaulting metal ludglet for the loading manufacturers of American automobiles.

- Thls stoel in subjected to a speoial heat treatment, whoreby it has an olastic ilmit, three times as hish as ondiuary Steel. The same is true of the bowi cover, and of the ralddle polnt or pinion, that meahes with the arger upur wheel. It is made of Vanadlum steed, or niebel ateed, of the same kind that is usod in the tranagission gears in the best grade of
automobilics. We believe that we are the firut to uns these apecial alloy autamobiles. We believe that we are che
steels in cream separator conatruotion:
The "Simplex," as far as we are able to Juidge, ropresenta a higher manufacturer's cost than any other separator on the market. The two Hess-Bright Benrings that go in every "sfmplex" Hand Sopparator, cost more tbin all the bearings put togrother in most other eream separatora. And yot on account of the large number that we tmport, single ordera sovering over 10,000 bearings at a time, we are able to furnish them as extras at a reasannble prlce, so that the cost of replacement, if needed, is not more than in other mechines.
We believe that "the proof of the pudding is in the eating." We allow you to try out the "SIMPLEX" on your own farm. Write us to-day for free Mustrated literature about the "simplex. Arrange to have a "simplex" Cream separator on your farm, Then you


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The Empire Needs This Fruit. Now is the time to act. A thorough spraying now with

## SOLUBLE SULPHUR

 Wer

Iydad los. to to gallona of water and
gidd
ARSENATE OF LEAD.
Write to us to-day nowo spryse out use Boilitils sulaphur, 1and Pumpa, Toll uay your sprays MILEARA BRAND SPRAY CO.

BURLINGTOM, ant. EVERYTHING FOR SPRAYING-Soluble Sulphur, Lime Sulphur, Areenate
of Lead, Dust Sprays and Dusters, Hand and Power Pumps and Accessories.

## Milk Fever and Its Treatment

## Irving M. Avery, in H. F. Register

NT 80 many years ago the words "milk fever" and "total loss," were aimost synonymous. This disease was pretty generally considered fatal, and the unfortunate dairyman took his lose resignedly and said "Kismet," or perhaps other words io the same effect. To-day, however, the situation is changed and author cent, or one out of every twenty only, of the animals afflicted die of this dis. ease; and so this dread malady, which in the past has been the cause of henvy losses in the dairy herds of this and 3er countries, because of the wonderful efticacy of the so-callsd creasing familliarity of dairymen increasing familiarity of dairymen with its every-day use, no longer has the
power of Insplring the tear in the power of Insplifing the tear in the
mind of the average man that it once had.
In a few simple words which every. one may understand I will try to call attention to this comparatively new treatment and to consider the dis-
ease, Its causes and effects. it is al. ease, its causes and effects. It is al. most impossible in a enhort article of this kind to write anything of any particular intereat to experiencea breeders or anything that has not aready been sald, in some form or
other, many times before. That is not the idea, but, rather, to outhne my own experience as clearly and simply as possible for the betrefit of the lay$\operatorname{man}$.
The average man reads about "parturient paresis," or a "plethora of blood plasma containing an excessive percentage of glycogen" and he is apt to become
wonder. Well, all this is only a very wonder, Weil, all this is only a very high-sounding and rather difticult way though to be exnet, the fleease is not really a fever at all, but anemla or lack of sufficient blood in the brain,
brought on (or as a technieal treatise brought on (or as a technical treatise
might say "ruperinduced") at the might say "superinduced") at the time of parturition, or caiving. by an
oxcess of blood in the utder with a consequent uneyen distribution throughout the circulator" system, resulting in anemia of the brain and a form of apoplexy.

## The Theory of Treatmeat.

The theory of successtul treatment is so simple as to be readily understoed by every dairyman once a clear comprehensive and thorough explanation has been made blm. It consists merely of the proper inflation and distention of the udder by pumping, in tention of the udder by pumping in
sterilized atmospheric air, thus relieving congestion and bringing about lieving congestion and bringing about
a- retam to normat dfatribution of aloturn to normal distribution of 1 know, no animals other than milch cows are subject to this disease and it usually attacks only those in the beat condition and the heaviest milk. ers. It rarely makes its appearance unsl the animal is at her best, usuabIy from about five to seven years of age, and cows having had one attack are predisposed to the disease and more Hable to affiction than. in the case of those that have never suf. fered from it. Heifers with first or second calves are almost entirely free from it and 1 belleve it is rarely mantfrom it and 1 belleve it is rarely mant-
fested in cows over eight or nine fested in cows over eight or nine
years old whose milk yield has comsmenced to decrease somewhat,
The symptoms are lackily very well defined and easy to recognize once one becomes thoroughty famillar with them. The animal is constipated, because of the approaching paralysis of the bowels; in extremely rentlens; looks wild and staring from the eyen and, after a time, begins to "weave" and stamp, Later on she will stagger and show signs of incresaing geakuntil finvly she collapses completaly,

Invariably dropping upon the right alde, with the head drawn aroumd to the left and almost touching the hind quarter on that side. Later stili, paralysia by this time having become and for and if the attack is zevere and far enough advanced, phe ap pears to all fatents and purposes unThe pyes are observed to be fixe The pyes are observed to ase fixed and glassy, and the body apparently
Insensible to any pain. The limbs maysible to any pain. The limbs may be placed in any position d ired without the least resistance ar he victim appears to the inexperien. ed vary close to death. Right here Would be advisable to send an 8 3. call for a veterinarian unless ro. are familiar with the handling of such cows and have at hand the necessar appliances and help, in which even expert assiatance may hardly bo neceseary.

## First Stage of Treatment.

If a competent veterinarian is sum moned the proceedints on bis arrival Will be somewhat as follows: He wil arst of all order plenty of clean be ding and have the animal propped from underneath the right side means of bags filled with straw some such contrivance, so Ghat may rest as nearly an possible upon the breasthone, the object being take the welght off the right jung an thus relleve her respiratory action Next be will carefuily wash the udde with antiseptic soap, placing a clea bag or cloth underneath to keep thoroughly disinfect the parts with four or five per cent. solution of ly pore carbolie or other equally good porent.

The apparatus used for ipjecting ai into the udder is very simple and sists of a rubber bulh to be conpressed in the hand, next to which comes an air chamber or reservofr
about the same size to regulate about the same size' to regulate
preasure, and then comes several preasure, and then comes several fee
of ordiuary rubber plpe or tuhin halfway of the length of which is. it cluded a mall metal cyllnder fille with carbolized co'ton through which the air passes, and on the extrem end of the rubber plipe is fixed a urdinary millking tube. The utmios care should be taken during the ope ation to avold all danger of infection and thus prevent inflammation of ndder or caked bag, with the posstbl loss of one or more quarters later on This noint cannot be too emphatically emphasized. The mill tube should be bolled for at least ten minuted be boiled for at least ten minute
before use and then piaced in a before use and then placed in a ja
containing a five per cent. solution containing a five per cent, solution
of the antiseplic solution at hand and of the antiseplic solution at hand and
allowed to remain for several minutes allowed to remain for several
prior to insertion in the tent.

> prior to Insertion in the tent, Be certain to avola draw

Be certain to avold drawing an milk whatever from the udder belitr commencing operations, In fact, a Auray Farms, we make it a rule nevar at any time, whether sick or well, milik a cow completely out until léast twenty-four hours after she ha dropped her calf. The resulting plete dratention of the udder has somiWhat the same effect as the artificia) diatention by the air treatment and acts as an excellent preventive against an attack of malk fever. the event of a very large and to the event of a very large and bad
swollen udder a little milk may h swollen udder a little milk may
taken if the cow seems all right. taken if the cow seems all right, but
only enoush to afford reltef and she Is only enoush to afford rollef and she is
never milked out clean the first day.

The Pumping Process.
When ati the parts, Including the operator's hands and the apparstui Itselt, have been thoroushly sterilized carefully introduce the milk tube into one of the tects and commence pump. lng air into the quarter, meantime tapping and gently massaging the
(Conttinued on page 6.)

# Where 

to do so.
catren thr
ous sprix
Flies, neglect, the aprin calves, w they mu mother's great tent the calve good for velopment calf in a to this ov if he has I should amount of to a big c day. milk, the to skimp Two wee minimum straight w would cha we have it advise-do naximum bs. of alkis an unuaual Where the


Trace i icreases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivitors of theiat of Da rying in leneda

## OL. xxxy .

## The Development of the Dairy Heifer

## Poor Deyelopment May Account For Low Production From Well Bred Stock <br> \section*{PROF. H.barton, macdonald college, que,}

$\mathrm{W}^{\mathrm{E}}$ Canadian stockmen have not made the most of our opportunities. This is em. of our really good stock. We are not thorough enough as compared with the Old Countryman. I ilke to look upon ourselves as past the point where we need be told that the pure-bred sire is the one economical road to progress. I like to belleve that even pure-bred is not now good enough. We are renching the point where we must have more live stock, and it must be better live atock. Our margin is smaller. The old cow will eat her head. off quicker than ever before. The right kind of stock involves development as well as breeding and it is on development that I will dwell.
1 want to start developing before the calf an rives, Ten months of work, two months' rest, with the cow calving in good vital condition, gets us a tood, vigorous calf. When the calf arrives we athould be ready for it. Many a stunted calf and three-quartered cow can be triced to careless. neess at this time. Every atable should have dis. infectant handy for use at this period.

## Fall Calves Advised.

Where a man can raike fall calves I advige him to do so. I have seen many cases where fall calves have overtaken calves dropped the provtous spring and passed them. Fies, heat and oftentimes neglect, retard the growth of the apring calf. In feeding the calves, whether fall or apring. they must first have their mother's mill. There is a great tendency to try and feed the calves more milk than tis good for them, when great development is desired. The calf is a very willing vietim to this overfeeding, eappectally if he has been starved a while. 1 should say that the maximum amount of whole milk to be fed to a big calf should be 10 lbs . a day. When selling whole milk, there is a tendency to akimp the calfs allowance. Two weeks stould be the minimum length of feeding on straight whole milk.' Then we would change to akim millk if we have it, and again I would adrieo-don't overfeed. The maximum amount bere is 20 lbe. of alim millk a day, or to an unusually large call, 24 lbe . Where there is no akim milk we must feed some whole mill. Five months is the minimum period of milk feeding and aix, After Mande, $12 z \%$.

## seven or eight months is still better. Rolled oats

 may be fed along with the millk. And it is at ways the last month of feeding that counts in getting superior development.I favor oats as the basal grain feed. Smaher quantilies of other grans may be added. Patent calf feeds are ne necessary. Gruss for calves is often abused. A calf should be well developed to make good use of grass. I would advise a nice fresh grass paddock near the buildings, with shade or shelter; access to the barn is the Ideal arrangement. 1 would not depend on grass altogether at any time, and would wean the calves to it gradually. Whole oats are splendid at this time.

## Winter Development.

When it comes to wintering a heifer, many come out in the spring, poorer than they went in in the fall. The winter ought to afford us our best chence for development. At least at Ste, Anne's we look for greater winter development than summer development. For this purpose the cheap tpeds are the beas. Sllage comes first and has no equal as a seneral stock food. Turnips and ensiliage make an ideal combtmation. I have

## Cow Testing as a Road to Herd linprovement BY C. F, WHITLEY, OTTAWA

Some sample tnereases in Three Years' Cow Teating, Both in Number of Cows
 and Yields of Milk.

| Herd. | No. of Cows. | Average Lb. Milk. |
| :---: | :---: | :---: |
| A. | 9 | 7225 |
| B | 14 | 7,574 |
| c | 8 | 6,404 |
| D | 11 | 7,255 |
| E | 7 | 4,844 |
| $F$ | 16 | 7,258 |
| 6 | 8 | 10,935 |
| Average | 73 | 7,392 |

Three Years Ago.
No. of Average
Cows. Lb. Milk.
3

| Increase |
| :---: |
| per Cow |
| Lb. |
| M11k, |
| 938 |
| 1,680 |
| 1,700 |
| 1,989 |
| 2,033 |
| 2,687 |
| 3,246 |
| 1,987 |

TOTAL YIELDS, $296,459 \mathrm{lbs}$. MIIK MORE, $122 \%$ INCREASE,
Your attention is partieularly Invited to the fact that cow testing makes for better and blgger things, as evidenced by these seven Ontarlo herfs, samples of very many
others.
After three years of application of this simple tally system, cow testing, we see these herds fnereasing in the yleld of milik per cow from $2,800 \mathrm{lbs}$, to $4,000 \mathrm{lbs}$, , from 4,500 to 7,200 , from 7,600 to 10,900 tbs. Here are gains of from 14 to $72 \%$. The man with 5 cows As these flgures keeps 9, each one better; the owner of a now has 14 .
As these flgures show, the general average lncrease is 1,087 lbs. of milk per cow, or $30 \%$; walle in piace of 45 cows these men now own 73 , or $\mathbf{~} 2 \% \%$ more. So much better is the neral average of the cows kept that the total milik yeld is increased by 206,409
pounds, 1 izz\%.

May I aubmit that better proef, not aimply of possibilities, but the actualities of sow teeting eeuld not reasonably be demanded.

| Percentage Increase |  |
| :---: | :---: |
| Lb, | No. of |
| Milk. | Cows. |
| 14\% | $80 \%$ |
| 28\% | $75 \%$ |
| $\mathbf{3 6 \%}$ | $60 \%$ |
| $38 \%$ | $37 \%$ |
| $72 \%$ | $350 \%$ |
| 518\% | $33 \%$ |
| 42\% | 60\% |
| 36\% | 62\% |

Induced many stock men to go into roots, and they now realize their value. Clover and alfalfa are Ideal for dry roughage, but sometimes we haven't got it. We are in that position at Ste. Anne's, Growing peas and oats, however, let us out. We haven't fed a pound of clover hay to a calf, bull or cow this past winter. Our sowing mixture is two bushels of oats to one of peas. We cut in the milk stage and cure, Care must be taken to get it cured well. Some of ours got too far along, but in feeding we soaked it with molasses solution and got on fine. This is the forie of feed molasses.

I would not advise going to the extreme in housing and forcing. Even a spring call should get a run on fall pasture. I don't like the round tidy appearance of exclusively stall-fed calves.

## Age of Breeding.

Many give all of these attentions to the development of their heifer calves, but the cows don't turn out as well as they should. Why? I believe in many cases it is due to the owner being in too great a hurry to get the helfers in milk. I wouldn't have a heifer bred to drop a calf before she was 30 months of age, and most on them come a little late. There is a little risk at the other extreme in deferring freshening to wafee years.
I was speaking on this subject at a meeting in a datrying district in Quebec, After the meeting I accepted the Invitation of one of the audience to go home with him for the night. As is usual we first went out to the stable to look over the stock. First we looked over Laura. She was a big fint cow. Betite her was another, small and pinched. I Was surprised to hear that she Wha Laura's daughter. Laura first freshened at 35 moniths, her daughter a Iittle over two
years. years.
I want to see the helfer Ireshening for the firat time,
get a good chance. She ahould get a good chance. She ahould cothe in in good condition. Heavy feeds must be avoided, and she should have lots of exercise, Preferably she should freshen in a box stall. For feeding previous to calving I would advecate t little brain and oatl, and perhaps brewers' grains and a little ofl calce. A dose of Tpsom salts, one and one-halt pounds at leant.

- Synopals of an addrcis.


## Knowledge Essential To Succees With Alfalfa

## BY TOM ALFALFA

THE first essential to success with alfalfa is a knowledge of the crop and its require ments. Lack of knowledge accounts for more failures than adverse elimatic conditions or unsuitable solls. I was fairly Jumped upon recently by a man who, lacking experience, had spent his good money on alfalfa ser $A$ and hadn't gotten a crop. He expected me to shoulder the full responsibility for his fallure, as it seems my advocacy of attalfa growing had had something to do with his attempt to grow the crop.
I enquired as to the soll on which this experiment had been made, and found that it was suit-able-a nice loam, naturally well drafned. I then asked a question which 1 always put first, and which usually reveals the source of error, what variety he had sown. He assured me that he had made no mistake He had secured "northern grown seed."
Northern grown seed in 99 cases out of 100 , means nothing more than grown in the northern hemisphere, anywhere north of the equator. An exemination of a man of the wortd wilt reveal that seed grown in the hottest parts of South America matght be northern grown aeed under thls defintthon. There are thousands of farmers in Canada who thave been taken in by this designation of "northern grown," and I would warn all who are planning to seed to alfalfa in the spring of 1916 to leave northern grown seed strictly alone. The twe varletten that will prove successfut are The Ganadian Variegated and the Grimm alfalfa, and of the two, the Griùm is to beepreterred, although the seed is rather high in price for general sowing.
The man whose experlence I am relating, had inoculated nelther hls seed nor tils soil. He assured me that he took no stock in auch nonsense. His lack of knowledge was remarkable. He did not know that all clovers, which include alfalta, feed on the nitrogen of the air through the medium of nodules which grow on their roots, and that these nodules will not grow unless the soll is first inoculated with nitrifying bacterla. There ts one class of bacteria which acts on red clover and anothèr which aets on both alfalfa and sweet clover. There are two ways of inoculating the alfalfa feld-by spreading a few hundred pounds of earth to the acre from an old fleld on whieh alfalfa has been successfully grown, or inoculating the seed with the laboratory culture securedfrom our agricultural college. Inoculated soll or inoculated seed, should be sown on a cloudy day and harrowed in immediately. This inoculation is one of the pivotal points on which suecess in altalfa growing swings.

## He Did Not Lime.

Another mistake made by the friend of thls story was in the matter of liming. His soil, I should Judge, is not particularly sour, but at the same time the district in which he lives is off the limestone belt. As red clover and sweet clover srow well, the chances are there is plenty of lime in the soll and alfalfa would ancceed. I bave found, however, that sifalfa requires more lime than elther of these hay crops, and there are comparatively few sections in Ontario, or in any of the other easterly provinces, where liming will not pay. Very finely ground limestone, where it can be had, is to be preferred to quick lime, as it Is milder in its action and does not tend to burn up rapidly the humus of the soll. The rate of epplieation usually recommended is about 'five tons of limentone to the acre. Where burned lime is applied, an application of $1,500 \mathrm{lbs}$. to the aere will usually be sufficient. If all the other pointa have been observed without suceess in growing altatta, try liming.

The final point that I mentloned to my insue-
cesaful alfalfa grower was the rate of seeding. Most farms in the east have their fair share of weeds, and alfalfa in the early stages of its, growth cannot compete with the weeds. In particularly weedy land, 1 would recommend summer. fallowing right ap to the frst of July, in order to kill the weods, and then seeding at the rate of 20 lbs , of good seed to the acre. If a nurse crop must be used, try three pecks of barley to the acre. A heavy seeding of alfalfa tends to keep down the weeds and give the crop a chance. For fertilizer, I would recommend basie slag. It has the fertilizing element most needed, phosphorus, in good quantity, and it atso has a good content of llme. The constituenth of baste 'stag are onty moderately avallable, and to get best results it should be applfed the previous full.

## Eradication of Twitch Grass Norman Ballantyne, Perth Co., Ont

ERADICATION of twitch grass is a problem we expect to sotve by is new Implement which we have come to appreclate, the Smith cultivator. This is one of the newest additions to our farm equipment, and so far it has done excellent work. It cuts seven feet wide and its
not esough clearness for such work, Last year we had such a wet summer and late harvest that we did not do much after harvest cul. tivation.

## Keeping the Cows Off the Grass <br> Jos. Irwin, Dufferin Co., Ont.

ONE of the quickest ways I know of to run a herd of cows down, both in flesh and in milk production, is to let them chase ail over the farm in the early spring, looking for grass. A covr may be coming along fine und be as contented with her winter fare, as if she had never seen a green fleld in her life, but Just let her get nosing along a fence or a roadside looking for fresh vegetation and she becomes like a thing possessed. What with the taste of the new shoots of grass, the smell of the fresh earth, and perhaps the stirring up of recollections of the luxury of good pastures, nothligg but a stake and rider fence will keep her from explcring every corner of the farm, and perhaps the farms of the neigh. bors. It ahe it allowed to roam at will over the sod field while the soll is still soft, she cuts it up and dres not end the damage. When finally ahe is turned into her stable for the night, which is always under protest, she is as gaunt as a greyhound. Her taste for her winter feed is wit gone and she is so pernickety about what she eats that nothing but roots or silage will tempt her. If the farmer has none of these, as the majority have

T

Treasonabl mize the ent, since


## A Firm Seedbed Is of Prime Importance For Proper Germination.

loose surfice mulch, which prevents evaporation.-Photo on the farm of $A$, Wy, Wright, her to reatore th
unusual feature is its depth. The various rows of teeth are separated so far that they absolutely will not clog. We expect to use this cultivator mostly for after harvest cultivation, as it is at this time that we can fight twitch most effectively.
In the past we have been growing buckwheat and endeavoring to smother this weed. This method was fairly effectual, but it gave us a bad crop to handle. We would fallow the land until the end of June and then the buckwheat woufd be so lage that it would be hard to cure. With our Smith cultivator, and after harvest cultivation, we will do away with beckwheat altogether. We have found that the teeth of this cultivator will stay right in the ground under almost any conditions and pull the twitch out. The ordinary astiff tooth cultivator has ionly two rows of teeth
not at this time of year, the goes decidedly or her feed. Her contentment all vanishes, and as vanisheé, the milk Alow shrinks in proportion.
This is what liappened to our caws every spring until i few'years ago, when I came to the conclusion that it didn't pay. I like to let my cows out in the sun and the warm apring alr, but I take geod efre that their therty is conflned to the barnyard. I am always particular to see that the fences and gates surrounding the yard' aro kept in the best of repair, and that the gates ary kept closed. These gates in the tence pald for themselves the first apring after I put them up. My cows now never get a taste of grass untll well on in May. I take particular care to leep them contented during the early spring, as I have found from experignce that it is only the contented cow thet will fill the mift patt.

THOSE dairymen and breeders who are will. ing to undertake and faithfully carry out permanent hygienic measures may with reasonable security expect to control and minimize the diseafe, but the work must be permanent, sincere and intelligent.

We advise, flrst, that the newborn call be cared for in such a manner as to insure it'against serious infection from abortion and other organisms and thus to guard its health and vigor. When the cow has reached her 270th day of pregnancy, or sooner if earlier calving seems probable, give her a thorough bath with warm water and soap, lathering the skin repeatedly until thoroughly clean. Rinse off the noap and water with a 2 per cent. solution of carbolic acid or cresol compound. Place the cow in a clean, disinfected stall. After the bathing, wash the tail, vulva, thighs and udder daily with warm one and a half to two per cent. solation of beeterol, eresol, lysol, carbolte acta, or other similar disinfectant, and douche the vagina dally with a 0.25 per cent. Lugol's solution. Lugol's solution, or compound solution of lodine, consists of 6 Troy dram of lodine crystals and $11 / 2$ Troy ounces of potassium iodide dissolved in 1 pint of water.)

Preserving the Calt from Infection.
When the calt is born, rub it dry and disinfect the stump of the navel cord. Do not tie it. Do not touch the navel stump with the handa. Fill a goblet or glass to the brim with $\mathbf{1 - 1 0 0 0}$ corrosive sublimate solution, and, having the calf held on its feet, push the goblet against the navel region so as to submerge the navel stump completely, and keed it submerged for 15 minutes (Corrosive sublimate tablets can be purchased of a size that one to one pint equals $1-1000$ ). Then dust the navel stamp over heavily with a powder composed of equal parts of powdered alum and boric acid, and repeat every 30 minutes until the navel stump is dry. Place the calf in a clean, dry, comfortable stall, and keep it alone until two or three months old. Do not permit the calf to suck.
In feeding the newborn calf, select the milk of a healthy cow which has calved promptly and naturally in thirty minutes or less, has expelled her afterbirth quickly and naturally within two hours, and has no discharge from the uterus. Milk from cows which have calved slowly or had inflammation of the uterus, with discharges, and especially with retained afterbirth, is dangerous.
Before drawing milk from the cow to feed to the calf, wash her vulva, tail, thighs and udder and douche the vagtna according to the plan recommended prior to birth. The milker should first disinfeet his hands and should use a sterilized pall. The first milk from each teat should be discarded. Repent the washing of the vulva, tall, thighs and udder immediately before eachr milling. Repeat the vaginal douches dally until all discharges from the vulva have ceased.
The first milk, or colostrum, is not veceasary for the calf.
Ideally, it would be beat to feed calves upon boiled or steritized mith. The process is yet in the experimental stage. Some


Hog Raising is the Dairyman's Most Profitable Sideline.
With quotations as high as sil at country points, those who have stayed with the hoe in leas prosperous
 The onea here llluetrated are between the fat type and the noest desirable bacon type.
calves grow thriftily upon bolled milk from the first; others die. In the meantime, calves grown under the conditions recommended are reasonably safe, and at eight to ten days of age may be placed with safety upon milk boiled in a water bath. The milk which is boiled may be drawn from any economic source, mixed millk from the dairy, milk from tubercular cows, skimmed milk, or whey from creameries or cheese factories.
These recommendations have a triple purpose: (1) We minimize the infection of the new-born calf with abortion bacilli and thus obtain the greatest security at present available against abortion, inflammation of the uterus and retained afterbirth two years later in first pregnancy.
(2) Combined with reasonable cleanilness of calf stalle and prutence in feeding, they have proven in extensive trials largely to eliminate white scours.
(3) Their application eliminates largely that very extensive and destructive group of cases of mammitis (garget) immediately following calving. The infection of the udder is apparently due thiefly to discharges coming from the uterus and oozing down the thighs, tall and udder. The infection thus reaches the orifices, chiefly of the hind teats, and, passing up the canal, establishes the mammitis.
When all discharges after calving have disappeared, decrease the douchings of cows in the dairy to three times a week, though it would be proftable to continue the externat washing of vulva, tall and udder daily in the interests of clean milk, as well as of the health of the cow.
When ready to breed a halifer or a dry cow, douche the vagina three times a week with 0.25 per cent. Lugol's solution (one olince Lagol's solution to three gallons and one pine of water) for 21 days, or one heat interval, and then breed. Continue the douching for another three weeks, when, if the animal appears to be safcly in calf, the douChing may be decreased to once a week untll time for calving approaches, when the care above outlined for the cow at that perlod should again be applled.
When abortion or retained afterbirth oceurs, each case should be handled individually by a skilled veterinarian and the genital organs should be restored to health as promptly as possible.

## Treating Valuable Breeding Herds.

In valuable breeding herds, according to our researches, if the breeder desires the most efficient


A Corner in a Well Kept Stable.
Shavings or out straw for bedding is dellivered right behind the cows through the shoot with the minimum
of dust. Shelves are provided for the mithing otoola.
practical control, it can be obtained rellably only by regarding each breeding animal as a suspect and introducing, as a permanent practice in breedIng hygiene, a course of uterine douches of, say, two per cent. Lugol's solution once a wek for three or four weeks just prior to breeding, in confunction with the other mensures above advised. Such cows then usually breed safely and carry their calves well.
It is imprudent to sell cows that have aborted They are Jult as safe to breed, after proper handling, as are other cows. The popular rule of holding an aborter for three menths or for str months after aborting or for a period of three months after the date when she should have calved is imprudent and illogical. The cow which has aborted should be bred when her genital organs have been brought back to health. This may be in one month, it may be never, and the time elapsing after the disaster has nothing whatever to do with it. If a cow aborts during the first four months of pregnancy, the membranes usually come away with the fetus, there is no afterbirth, and no notable dlecharge follows. If left to herself the cow may be in good condition to breed in fifty or sixty days, or if her uterus is carefully disinfected three or four times she may be in excellent condition for breeding in thirty days. If the cow has suffered from relained atterbirth and io an neglected or even given the best possible attention, she may never again be fit to breed.

When sterility occurs, an expert veterinarian should be called early to examine the genital (Concluded on page 13.)


## Fencing? Yes, but what kind?

The farmer who thoroughly examines the relative merits of the various brands of wire fences offered to him will not have any diffieulty about deciding upon the one he ought to have. Let him decide by that most unerring of all tests-weight. Why judge by weightf Because weight means strength, and strength means durability and long life. Of the different makes of wire Iences,
the rest.

## The heavy-weight among fences is the "Ideal

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## Ideal Fence

It is to your intersat before buying fencing to sot a copy df our cataloston: a postal will bring it.

The McGregor-Banwell Fence Co., Limited
Walkerville, Ontario, Canada. 23


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MeCrrmick manure appreal ap ont who handles them to show you a MeCrrmick manure aprealider If the aryent con't do tit drop uan line. We will send you a copy of our booklo, Why You Should
Use a Manure Spreades, and will tell you where you can seo one Send us a card mond wo will do the rest but - dont top until you have seen a MeCornicks sprender.

International Harvester Company of Canada, Lid,


## Milk Fever and Its Treatment

## (Continued from page 2.)

part, so that the remiotent recesses
may become distended when may become distended. When all the
air possible has been injected, withdraw the tube gently, being careful to pinch the teat immediately upon its removal no as to prevent any butflow of air. Then carefully tle the trat about in the middle with a plece of hard tape-tie it hard so that no milk tube by immiersion in the antlieptic solution and repeat the operation upon the remaining quartera.
One good feature (and so far as 1 this: The aflicted animal elserse is this: The affieted animal elther succumbs or completely recovers in a comparatively short time-you get quick action and are not kopt long in suspense and there is no tedious convaleacence. I have known cases Where a cow survived a severe attack
and was up and eating hay, apmarent and was up and eating hay, apparenty none the worne, a few hours after treatmem. A great deal depegds upon promptnens in recognizing symptoms and combatting the disease. For this reason every progressive farmer should equip bimself with a milk fever outfit and thoronghly familiarize himself with the theory and practical method of treatment, because it is frequently trmposible to secure the services of a competent veterinarian at short notice Outfits may be obtained at a very small cost, some, 1 belleve, as low as $\$ 3$, from any relisble dairy supply hense
Second Treatment Sometimes Necessury.
Sometimes in aggravated cases if the atr becomes absorbed and no im provement is apparent after three or Idemtical with the fecond treatment Generally, however, if the case has Generaly, however, if the case has not been negiected too long betore
beginning she will get on her feet in a few hours after treatment. The tapes should not be removed at once but allowed to remain in position for an hour or so after recovery, after which time the contracting muscles at the extremity of the teats will retain the balance of the injected alr. When satisted that the patient has completely recovered, and under no circumstances until after about $\mathbf{2 4}$ hours have elapsed, gradual milking may commence. It will probably be several days before satiafactory results are obtained in the way of milk production-however, it is surprising prow quilekly cows will sometimes recover under careful handing and come up to thelr proper millk flow. I come up to their proper milk flow. I
have had a cow survive a bad case of have had a cow survive a bad case of
milk fever and later 80 on A. R. o. milk fever and later go on A. R. 0 .
teut, afterwands maktug a satiafactory teut, afterwards making a satisfactory
record, less than three weeks from record, less than three we
the time of betag attacked.
It is sombewhat diffeult for a progresslve dairyman to wholly avold milk fever. H a cow is to do her level heat at the pail she must certainly be well fed up to the time of calving and in tip top condition. This, of course, incresses the chances of contracting the disense. On the other hund, by taking away all feed and practleally atarving a cow for a considerable period before parturition, the chancen of milk fever are materially lessened but at the expense of decreased efli clency; becanse the millk flow will undoubtedly be somewhat reduced in consequence and it becomes doubtful if the animal, for that year at least, will ever attain her maximum production.
Precautions in a Producing Herd.
In the case of purebred animals intended for A. R. O. work and expected to go on teat it is of prime importance that they be in the very best possible Dhystcal condition in order to do thetr utmont to the mat-

Auray performance. Therefores at ning all wis, we feel justued in- th. salke of attaining maximum prodac tion; but at the same time we take every preeaution to prevent, and, if necessary, to combat the uliserese. It week before calving all grain feedr except bran are discontinued and the latter is given in the form of a manh, with plenty of salt added. In addition. cooling lamitive feede are alvengreen grask, green ofts or groen conif posaible, but if not groan corn, $r$ possibie, bat it ant a vallable we reed a liberal supply of eut beets or heet pulp, etc., and a Mata or clover hay ad libitum. Also once daily is handful of ofl meal, which we consider. very beneficial. Immediately arter parturition we give a drench of $13 / 2 \mathrm{lbs}$, Epsom salla with one ounce of creolin added which restores the normal movement of the bowels and prevents any fermentation. No feed is offered for six or eight bours and then only a bran mash with oats and salt.
The following day, if the animal seems all right, we commence with about two pounds at a feeting of a mixture of equal parts of bran, dried brewery grains and crushed oats; and later on as she begins to come to her full flow we substitute our regular ration, a little at a time, untll finall? after about a week, she ls taklig io to 12 pounds dally of her regular fee misture if she continues to increase as she should the foed is gradually increased to correspond-generally about one pound of feed for every fou pounds of millic. We have never los a cow because of milk fever, althoug we have had neveral severe cases. We do not particularly tear th, but we certainly do not welcome it.

Milk Fever Don'ts.
In conclusion, I might add a few "Cou'ts" which I trust $w \mathrm{~m}$ meet the approval of all those experienced in handling mikk fever cases and which Thope, may be of some use to thosc as yot unfamiliar with the disense and ita treatment:

1. Don't forget to aet promptly you intend handilag the cow your-self-send for help p. d. q. In case you
2. Don't atternpt to milit out the cow in order to relleve her-it will fietp a great deal tf you restst the temptation.
3. Don't try to give a dreneh after the cow is down-the muscles of the thront are by than probably parulyzed and some of the dose may enter the lungn with dis astrous resulte.
4. Don't neplect a sincle prectution in the way of cleaniliness and dis infection-a loat quarter or spoiled udder is too great a price to pay for a little careleamness
(5. Don't think of leaving the enif with the dam after the symptoms appear-both are ter off away from each other ter of
way:
5. Don't be in any hurry to mence milling and feeding sifter the cow rocovers-give nature a little opportuntty to thelp you. 7. Don't forget to remember sea year that she had milk fever the year before ""an ounce of prer wentlon," ete.

Black Leg or Black Quarter MONG the many things onr Oncarlo farmers have to contend with is the epparentiy all too ocimmon and epretatigs thsease finown at Black Leng. Like mont of the bad diseascs affecting IIve stock Its pro vention fo simple. All that is neces

## -neveradollar has been lost

by investorsinOntario Mortgage Debentures, although hundrado of millions of dollars worth of them have been sold.
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$+$
Ayn Broekvillo, Ohathams,


Yeara from now the Yeira from now the Bis of soteited timber, treat-盟 Wion wood preverv:

 fown it lantait doppiy ho do naything elary Ool foder exnlaina


## Pect, Yerr \& McEliderry

Barrieters, Bolleitors, ete, 415 Water St., Peterborough


## GASOLINE ENGINES <br> stationary ${ }^{3 / 4 / 40}$ tounted and <br> macton



Grain Grinders, Water Boxes, Steot
Baw Framen, Pumps, Tanke, Eto coole, sumper \& Hilit co.ili
aary to permanently guard against the on hay, bran, ehop and roots. If she hoalt: hence do not worr betause figs and the meatures inecessary to mows symptoms of constipation give you have not seen her chewing her wing it ont mesaures hecessary to one pint raw linseed oil. Wipel things that following are several things that every livestock man should know regarding tra disesse: It is caused by bacteria, and the only way that infection can take place is throagh abrasions of the skin, as wounds cansed by barbed
wire, thorns, awns of grains, or teethWire, thorns, awns of grains, or teething trouble in young as mais. the low-lying lends are particulariy liseIy to be intected, and infected aveas remain so indefinitely; and pasturing on, or belng fed on fodder from these lands, are liable to inuction, though horses and older cattle are to a great extent immune. The development of the disense fo quick, and it is praetleally always कhtal.
The symptoma are very noticeable. There is a lameness, with the presence of a tumor or swelling, usually sence of a tumor or swelligg, astiaily
upon one quarter of the animal, upon one quarter of the animal,
These tumors are eharacterfmed by These tumors are characterfmed by the fact that when they are tonched,
or whea the hand is rubbed over them, a peculiar eracking sound is produced. Lose of appetite and generaf depression follows, with a high and quiokened pulse. Finally, the anfmal goes down and becomes weaker and weaker, the extremities get eold, and death reenalte fin from en to 48 hours.
There is practioally no effective Ireatment. Preventive Inoeulation, which is simple and faexpensive, is the best and surest method. It conslists of inoculating all the young anlmals in the infected area with a vaccine prepared for the purpose. This ean be doma with a hypodermie syringe, or by the use of a specially. prepared needle and inoeulated threads. The latter method is very shmple, It can be performed by a most anyone and is quite effeotive.
The needle and threads can tee purchared from the Feterinary Director General at Ottawa, who will send with them full dfrectlons for performing the operation. The cost fis so small that no stockman can afford to negleet his anlmals and run the risk of loss.

## Veterinary Department

Pigs Cough
HAYHA several ples that, after oathing
will stand and cough. Can you toil will stand and sough. Cun you tedi Fentings Cos, Ont.

The symptoms Indieate that they eat too greedily and pruotically eboke. Feed out of a trough with a large bot tom, so that the food will not be deep enough for them to will not be deep fuls. fuls.

## Abnormal Appetite

WFOQD like to know what me gowe Wequire in in the bones to ebow, and Mentely they have fitien to pticlica bis of fomioek lumber and sony bits of loather
they on find-Hi S., Durlism Co, Ont. Allow free secens to salt, feed Hber ally on bran and give each two dram of ealolum phosphiste three times dally until the hahlt sesses daily until the habit sensen

Uterine Discharge
HAVAB a youny cow about foae yeas
old that plipoed hor onit at
two week ago. ginee th been lootngelk ago, great dinow of
firmy subatance with it, sh
Whist is the cause and how
Am piving fier byan manel
driokin. An enrly reeply will te munus)
Fluah out the womb ance delly with about a gallon of a warm one per cent, solution of ereollh. Give one ounce tincture of iron in a pint of cold water as a drenin twice daily mintil blood ceases to paes, Feed well

## Rumination

HAVE a never asen che breat cow that 1 have pears to be in good health. Is there What treatiment nhould aho recelve?Your cow certainly Dist, Ont. Your cow certainly ruminates chews her cud. You say she is in good
cud. The end seen her chewing her mpirfeetly maaticated food regurgitated to the mouth for remantication. As a rule stelt come do not riminate, but there is no disease or condition known as "losing the cud."

A Ienge proportion of fatalities among datiry cowa are due to two causes-carelesaness of frmoranco. Both are remediable.


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## HORTCULTURE

## The Growing of Cabbage

 A. W. Cook, Norfolk Co., Ont.
## T

 feeder case plant is a rank tities of nitroneng and molsture Frequent cultivation is essentiai. Cabbage is planted in rows wide enough apart for horge cultivation the distances varying accurding the nature of the plants's growth, but generally about 18 inches. There is probebly no plant that will give as much in return for eultivation as the cabragesoil. The cost per aceording to the is about five dollars of production is about five collars per ton, $\quad$ e. d
under an average season under an average seasoon one can axpect a crop of about ${ }^{15}$ tons. Allowing $\$ 10$ per ton, this will leave a gront of 376 an acre. This is a very good proat when one is growing it on a large scale, but where one grows an
acre or so where he can do nearly acre or so where he can do nearly all
the work himself, the proft will be seemingly somewhat higher or if one is going to dispose of Lats crop upon a local market at so much per head,
the proat tnereases Cabbake srow: the proatt Increases, Cabbage grow.
ing is a proftable branch of garden ing is a prontable branch of garden-
ing under average conditions. It is an industry which will stand expansion.

## Potatoes and Their Culture

## W. T. Macoun, Dominion Horticu

 turist.C ERMANY affords us a wonderful object lesson on the yalue of is depending to a large extent on lis is depending to a large extent on 1 its
potato crop. She produces $1,250,000$. potato crop. She produces $1,250,000$,
000 bushels a year. If we contif 000 buahela a year. If we could atroy all the potatoes and potato duots In Germany, the war would
shortly.
We, too, can afford to grow potatoes;
taken one year with another taken one year with another they will pay as well as any crop on the farm The average crop of potatoes in Ontarlo is 125 bushels per scrs. Mr. Carman, editor of the Rural New Yorker, once offerec a prize for the highest yleld from a onetwentieth acre plot. Two contestants grew at the rate of over 1,000 bushels an acre. One boy In Middlesex has grown over 500 bnahels on a whole acra. Phese yletds illustrate the possibilities of increased production through improved culture.

Ideal Potato Conditions.
The ideal place for potatoes is on a clover sod. They grow beet in a cll-
mate where the days are warm mate where the days are warm and the nights are cool. The Maritime
Provinces and British Columble Provinces and Brltish Columbia, therefore, have an advantage over Ontario in potato growing. It the surface soil is allowed to become dry,
the tubef. will not develop even if the tops and roots are good even if one of the advantages of plowing down clover: the molature is held near the surfaca and constant cultivation should be followed to retain the molature. 1 would cultivate potatoes when in blosfonown the difference timee, I have known the difference between six culmake a difference of 40 busheis in the make a difference of 40 buaheis in the
crop. The explanation is the impert ance of molsture in the the importwhere the tubers in the surfice soil where the tubers develop from underground stems.
At Ottawa we plant in rows two and oneshaif feet spart with the sets 12 Inches to 14 inches apart in the row. We use seed potatoes of good size, outting each tuber in four parts, one cut lengthwise and one cropswise. We belleve the grower is well repaid
*Aynopsis of a portion of an address
by Mr, Macoun at a Patriotism and Pro-
duetion conference.

TOP DRESS all your Crops with Nitrate of Soda alone, no matter what ocher fertilizers you may have used. 100 pourds to the acre for seeded, and 200 pounds to the acre for cultivated crops will do the work. The increase will yield large profits over the cost.

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 Reseliestls Peelity Form

White Wyandottea Handy, tarme rowed, byed to bay mraing in Camide namely, Guiad winter and Moleod blood Proven

 diccha ${ }^{20}$ comes ench deponalt mecurea delivery on any ondera of over 50 egres.
J. II. Brickley İ Son, Meryarille, Ont.

First eless WYANDOTTESho.00, get a settine of is isia. Seng, and have puilets to lay next winter,
NORMAN POOL

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Here is a light, weight, durable and comfortable working shoe peeleily,
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proofed leather that 'has made Palmer's"Moose Read Brand" famone for almoet foity years. No seed
to suffer whith thed, sors, gehing, burnto suffer with timed, sores, sebing, burn-
ing foet, Cat a paip, of thee and find
raile and eomfort if your dealer doen't earry them, send uig hil name, enelot int seos, and we wit ship joti a palf, all eharges peid, to asy addrese in by poital or expres orden - Sane style
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CANADIAN NORIHERN
fn using -20 burtels of seed to the sere, selection of variety is rary impurtant. At Ottawa we have had differences in sield of 500 buehels per acre between the best variety and the pgorest variuty in plots grown side by side. The variety to be grown will be dotermined somerhat by the mar-
ket. On some markata white potatoes ket. On some markats white potatoes are worih 10 to 15 ets, more than red potatoes. It is well, too, to grow one Green Mountain, Gold district. The Green Mountain, Gold Coin and Carman No, 1 are all of the best type
and all fine yielders. and all fine yielders.
The conditions under which the seed is grown also affect yield. The later potatoes grow in the fall the better will they be for seed, Many large gardeners. who specialize on carly potatoes, plant thelr seed slista late in the season, say, towards the end of June. New Brunswick potatoes are generally better for seed than Ontario potatoes; this lso because the tops grow green until cut by frost: At Ottawa seed obtained from the Indlan Head Experimental Farm in the Weat ylelded four times as heavily as seed of the same variety grown at Ottawa. Similar results were obtained from seed from the Maritime Provinces. Some times when we have a cool fall, as for instance last season, we grow good seed in Ontario.


A Woman's Extemsive Poultry Ranch
$\mathrm{I}^{\mathrm{F}}$ one were to visit a certaln New York village in the early.
spring they might see a long line of young men and women making their way out to a small farm in the suburbs. If you were to ask what it all meant you would be informed this was the annual visit to the poultry ranch of Mrs. Hooker by the students ranch or Mrs. Hooker by tho studenta This wonderfully suceessful poultry farm was described as follows by farm Was desoribed as follows by The Conntry Gentleman as follows :
The Conhtry Gentleman as follows: neres of land situated about one mile neres of land situated about one mile
east of the Genesce River and at an clevation 200 feet above the valley land, in Livingston County, New York, was purchased in March, 1907 by Mrs. Aurela Hooker, for the sum of $\$ 2.600$. The buildinus consisted of 4 fairly comfortable house and a smiall, poor barn.

Day-Old Chicks For a Start
"Mra. Heoker had deeided to engrage in the poultry business. Somo brooder houses wero built and a start was made by obtaining 1,000 day-old chioka of a Now Jersey strain. Egg produotion was, the object simed at and, though especial efforta have been made to improve the strain by seleotion and breeding to that end, there has been no attempt to erier the show ring. Cockerels aro kept only in the pens where eggs for batching purposes are produced.
"New buildings hivr been erocted as the demands of tho inereasing business required. All Jue buildings and brooder houses are patterned closely after the Cornell plan. There are in uas eight each of the colony and the brooder heuses.

Fseds Are Pureiased
"At the present tine the whole number of birds on the form is 2,000 . At one time the layera were disposed of after the moeond season, but ciose observation has proved that they of ton do quite as well the third year. From 1,200 to 1,000 egem are gnthered


Order Your Day Old Chicks Now
We have the best atrain of Bred-to-Lay 8. C. White Leghorna on the market. They will fill the egg basket next wintar.

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beit any farmer can erect this sulo withrout outside help-the hours abpolutely whithout to-day. Can be put

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 ofronger than fron bands and have many other Cesveniages over ron rods, having oumpicient elartiolty to permit of the expantight at all thmes. You will be surfinised not only at the the coilo of the Burkneton silio, but at the sary way it in ereoved. The
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ontario

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Address


## Production and Thirift

TO win the Far with the decisiveness which will ensure lasting peace, the Empire will require to put forth its full collective power in men and in money. From this viewpoint it is our true policy to angment our financial strength by multiplying our productive exertions and by exercising rigid economy, which reduces to the minimum all expenditures upon luxurien and non-essentials. Only in this way shall we be able to make good the loss caused by the withdrawal of so many of our workers from indus: trial activities, repair the wastage of the war, and find the funds for its continuence. It burdens of the conflict seill lie before us, end that industry people that the heaviest who remain at home, supreme patriotic duties upon whone fnithfe, for those who remain at home, suprame patriotic duties upon whose faithful fulfilment OIR THOMAS WHITB, Míniater of Rinanos.

## PRODUCE MORE, SAVE MORE.

MAKE LABOUR EFFICIENT.
SAVE MATERIALS FROM WASTE. SPEND MONEY WISELY.

## LET US PRODUCE AND SAVE-

The war is now turning on a content of all forces and resourocs-men, munitions, food, montey. The call to all is to produce more and more. It may be necessary to work harder. The place of those who enlist must be taken by those at home, men and women, old and young. The more we produce the
more we can ave. Produce more on the farms and more we can save. Produce more on the farms and
in the gardens. Save more and help to win the war, in the gardens. Save more and help to win the war.
LET US NOT WASTE OUR LABOUR-
In this war-time all labour should be directly productive or should be asxisting in production. Maleit as efficient as postible. If your labour is on something that can be postponed, put it off till after the war and make your labour tell now. Making war is the first business of all Canadians. Efficiency in labour is as important as efficiency in fighting.

LET US NOT WASTE MATERIALSBegin at home. The larger portion of salaries and wages is spent on the home food, fuel, light, cothing. Are any of these things being wasted f 20.00 a year saved from waste in every hoze in Canada will more than pay the interest on s war debi of $8500,000,000$.

## LET US SPEND OUR MONEY WISELY-

Are you spending your money to the beat advan tage? What do you think of extravagance in war time? Tens of thousand of Canadiar are daily risking their lives for us at home. Is it not our duty to be careful and sconomical? Canadian dollaraty an important part of the war equipment. Make them tell. Have a War Savings Account. Buy a War Bond.

## THE GOVERNMENT OF CANADA

are returned with the money, as it is I find that men whe have hitherto the rule of the farm never to aub- looked with scorn and indifference on stitute from other flcolss. Some sea- this department, in some cases fairly sons a great many day-old chicks are good farmers, are becinning to see sold Five $30-\mathrm{egg}$ incubators are that it is something which means a ased, while a 1,200 egg sise machine great deal to them after all. We find has just been installed. Gasoline heat them at the school fair, the most enis used in all the brooders. "From ten to twelve seres are reare to be kept. This allows ample pace for building and also for a rotation of crops which brings a part of the land under the plow annually, so that necessary alfalfa can be grown and some corn. In this way the soil is kopt-sweet and free from disease germs. The returns from such fruits as posehes, plums and cherries help out running expenses."

## A Sound Proof Wall

Am intalluen an uptodeto water Ey-
 tiong farm home. Woukd rou kindidy in wiut tomromind the bathroom on two midet,-Rooll Co.is omt herewith explains the construetion of a sound-proof wall better than words could $\mathbf{\text { do. As }}$ will be sean starting at one side there thusiastic on the erounds, and taking a deep interest in the children's winnings. I believe the school fair is having the desired effect of bringing about the proper relationship of father to son and mother to daughter, namely, the parents taking more interest in their children, and bringing them more and more into the partnership in their business. It is arousing an enthusiasm among the people that will tend to lift them out of the nroverbial rut, and with their children keened up and awakened to the possibilities in life, will tend to more progressiveness in the future."-P. S. D. Harding. Lanark county.

In North Gower, we have all noticed a great improvement in our felds here resistered seed is sown.-Member, North Cower Banner Oats Centre.

There in no business in Ontario where the inexperienced middleman is


A deeirable addition to bathroom in a sound proof wall around it Thle diagram prepared by the Amenitecturnal Beparment of the Louden Maohinery Co , of
is plaster, lath, two by four, stadding doing more harm than in the wool busiwith a dead air space, onequarter ness. The farmers should dcal directly inch spruee, butiding paper, then an with the consumer or large wool mer spruce, stndding one-quarter inch chant.
apruce, studding and air epace and style of sound-proof wall that is atyle of sound-proof wall that is popular with arohitects and suocess ful in practice.
School Fairs and Rural Uplifts
"I am very pleased to tell you that our school fairs are a great improvement over last year, and from the interest manifested in them this year upon the part of pupils, teachers and parants, it omens well for another year. Words eannot express my gratification over the way in which the four fairs passed off. The quality of exhibits has been excellent, and the manner in which the children have been putting up their exhibits shows that great pains have been taken in selecting and preparing them for the fair. I am firmly convinced that the time and energy spent by this department visiting plots and schools. encouraging the children practically all summer, has been well spent and wilt have its desired effect as time roes on. Too muich time cannot be spent in malring school fairs the sme spent in mairing school fairs the sucwork in the county that will do more to escourage progreseiveness mome our castern farmers. First of all theng our eastern farmers. First of all, the most vital question of the hour is to reep the boy on the farm and the school fair, when properly conducted,
is one means which win asaist.


Roof with Paroid $W_{\text {ing in first cost, may }}^{\text {HAT look like a }}$ in a few years prove a bigex
 pense. Paroid Roohng is socareully made of tested materials, you avoid the repair bills that add heavily to the cost of a cheap roof. The first Paroid Roofslaid is years agoare still in good condition.

## Paroid R00 MING

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## "Read not to contradict, and to contute, nor to bilieve and take for granted, bit to welgh and con- ilder."-Bacon. Elder."-Bacon.

## More Silos Needed

THE gndual derrase in the acreage devoted to root crops, and the rapid increase in the amount of land used for fodder corn productlon, shows that farmers generally follow the line of least rerlstance and apply their iabor where it will bring them the greatest returns. The necessity of succulent feed for winter is recognized, the only question belng, whether corn or roots, the two main sources of such feeds, will supply the greatest amount of it for the least labior. It is now generally recognized that corn afligge is the most economictil source of auberitence. Although roots have a place and will always be grown to a considerable extent, still it is practically certain that the acreage devoted to corn will contlnue to rapldly Incrase.
The scarcity of labor that prevails at the present time is a strong inducement for swinging over still further to corn production. The men who elrenty have ample silo capacty are in the beit posaitile position to get along with a mintmum of laber. Those who have not yet built nilos could probably not put their time to better advantage than to build one this summer, as there is no prospect of rellef in the labor situatios for some time to come. To increase or ever maintain produetion of food stuffs, every known laborsaving device will have to be utilized. Away up near the top of the lift of labor-saving devices is the ailo. We in Canada are only beginning to realize the value of ailos, and there is urgent need that their numbers be fincreased as rapldly as possible.

## A Field for Public Service

0E. of the benefits of direct legislation is that it gives an opportunity for puhlic minded eltizens to interest themselves in the initiation of progressive legislation, and to devote some of their time to publle welfare, Under our aystem of so-called ropresentat've gow.
arament, law makdng is left entirely in the hands of the members of legislative bodilas. That thiene men hold a monopoly of law making ability no one, not even they themselves, would hive the hardihood to clatm. There are amonstot the grent body of private clitizens men eminently capable of taking a leading part in devising and prometing benelicial measures. Amongst these are many Who tor busineis reasons are unable to devote 80 large a part of their time to public work as is necessary for men engaged in publie life. Under the representative system, these are debarred from taktug an notive part in the shaping of Iegisiative policies.
That there is a afeld in which the ability of these men can be utilized for public good, was amply Illustrated in the recent temperance propaganda in Ontario. The Committee of One Hundred was composed of public minded private citizens. So thorough and business-like was the 'propaganda they conducted that the signatures of over 85 per cent. of the voters of the province were secured to the petition for prohibitory liquor lagislation. In the campaign was utilized the ability and enly the ability, of men who, under ordtnary efreumatances would have no active part in influencing legislation. Under a tiberal measure of direct legislation, however, the field would be continually open for the public apirited activities, of such men. There would always be an opportunity for them to give their time for public welfare.

## The Farmer and the War

Nw that the rush of spring work has begun in earnest, and with so many of the sons and hired men that we had to help us this time last year, now in training or on the firing line, the temptation is greater than ever to reduce the work put on the land. Even in years when lebor was, comprativety speak/ng, plentifut, the manner is which we did our general spring cuttvation was not what it ahould have been. This year, with the pressure of work greater than ever, there is a grave danger that much of the crop wili be sown in a poorly prepared seed bed, and that the result of this lack of cultivation will be reflected in the yields of harvest time.
Though it might be nelther wise nor possible to put as much mort on tha land as is adevocated by some intensive farming enthusiasts, still it is easy to err on the other sife and to make insufficient preparation for the seeds. Perhaps no ferming operation pays greaxer dividende thain an extra stroke of the harrow or disk. Any inereased effort at this time will inen ase the yield without adding much to the work that will be reguired at any other time during the season. The reward of such effort; both from the extm returns recetved and from the sense of duty well done, will be grent. It ehould greatly encourage the farmer to know that every ounce of increased effort that he expends in making proviston for greater crops will ultimately be registered on the firing line, and that the disk, the harrow and the grain drill are just as effective in a war of exhaustion as the howitzer and the machine gun.

## Sisal Monopoly and Twine Prices

EVERY indication points to the probability that farmers will have to pay a high price for their twine thin year. The price of aisal, the raw material from which most of our twine is made, is now well over seven cents a pound, or about equal to the wholesale price of the manufactured twine five years ago. As is ugual in such cases, these high prices are the ronutt of a monopoly. It appears that a serles of circumatances, Including the Spanish-American war, the subsequent revolutions in the Philippines, as well ns a severe drought in thone telmint that year, hias as Intertered with the supply of sianal from that source, that reliance is now made almist altogether on the province of Yucatan in Mexteo for
the supply of raw ibre. The exportation of aisal from that province is a government monopoly, and ts financed by American capital. Representing this combination is a regulating committee which practically controls-the world's output of nbre, and can set any price it pleases on the produet. As a result, prices hate atvanced raptaty, every advance of one cent per pound, representing an adatitional $\$ 2,500,000$ that the monopoly can extract from the pookets of Canadian and United States farmers.
Stace the province of Yucatan is not subject to the government of elther Canada or the United States, these countries are helpless in controling the monopoly, and it la not tikely that the monopolists are loslng any sleep over the losa they are imposing on our fermers. They are more Hkely to be planning how to atill further increase the price. The only consolation to be found is that the growing of fibre will be atimulated in other parts of the world by the high prices now ruling, with the result that competition and reas. onable prices may eventually be restored.

## A Successful Experiment in Taxation

TThe demand for money to meet the large
The of experiments in taxation. expenditures due to the war hus cansed Canadtan politicians to vie with one aaother in discovering new methods of ralsing revenue. Some of the methods devised, however, are far from being above critielsm. They are purely ex pedient, making no pretenne of bethg founded upon aclentific princlples, their chiet chameteris tie being that they tend to check induatry and to place a premium upon dishonesty.
Thure is, however, at least one exception. berta, along with older methods, has been exper menting with land value taxation, and with very gratifying results. In one year that province has collected $\$ 700,000$ by meana of a tax levied on wild lands. The Calgary Eemald, the leading Conser vative organ in the province, has recently com mented favorably upon this method of ralaing public revenue, and has strongly urged the exted slon of the principle of taxing land held from productive ase by speculatom. The tax has had a double effect, both of which will be looked o with tavor by the real producers of wealth, the sumny province. Not only has $\$ 700,000$ been raised without imposing any additional burden of those who are using the land, but it has aleo had the effect of inductng those who hold wild lands to let go at reasonable prices.
Around all our large cities and fn all our new districts are large tracts of land and other valuable resourcos held from legitimate nse for apecnlative purposes. Our govemment ehonld not be suow to soe that here is a source from which taxes can be. ralsed without checking industry and that auch taxes cannot be evaded or passed on to the productive worker. The success that has attended Alberta's experiment in taxtug unused land corroborates the contention of those who believe that the land-hog should not eacape the tax collector.

The well-being of a people is like a tree; agriculture is its root; manufacture and commerce are its branches and its leaves; if the root injured the leaves fall, the branches break away and the tree dies.-Chinese Philosopher.

Once the cora is off to a good start, we caltivate very shallow. One year we had ithe crop on the side hill. There wee much rath, and atl antace earth between the rows washed off. Then thors lay exposed a perfect net work of corn ropts. They coutd not have been more than two or three tnelien below the surface. Anyone Who has lim such an object lesson as thls can easily see the folly of deep cultivation of the corn crop.-Normaa Ballantyne, Perih Co, Ont

Ontario's New Dairy Legislation

THibe Dairy Standands Act, which the whey shall be properly pasteurized, book by the Ontario feriflature affect or the purpose of carrying into one of the most radical pleces of dairy legislation ever introduced tit the provizoe. The feeling that milk and cream ehould be paid for on a quasity basig is one of long standing. come up at datrymen's question has ond though it was usually anventions, the pooling system wes unmetiof actory till the demand for legialative acory, was not pressed, matteri) alluon 0 drift, and It yes left for allowed factory owners and makers to voluntarily adopt whatever system they wishou.
late, however, new influences have been brought to bear on the dairymen of the provinee regarding
this quastion. Amongst these have been the widespreed adoption of pay ment on a quality basis in other provmont on a quality basis in other provThe rapid Improvement in the gually. The rapid improvement in the guallty introduotion of the improved upon the introduotion of the improved methods,
Wherever adopted, has been forelby brought to the nttention of forelbly dairymen of late. The fact Ontario corresponding lmprovement has taken place in the dairy products of Ontario, tinually decreased, and that has coning system so widety followed has not prove the prove the quality of their milk, has Act to improve the guality of of an produce. The Act to here gtven in full: His Majesty, by sil
His Majesty, by and with the advice sembly of the Province of Ontario, enacts as follows:
Dairy Standards Act" cited an "The 2 In the Act -
(a) "Pactory" sh
"actory" shall menn and include cheese factory or butter manainctory, condensed milk factory,
creamery, mill powder falo creamery, mittk powder factory, ing station or other premises ing station or other premises
where milk and eream is collected for sale or shipment or mannufacture;
b) "Patron" shall mean one who mabitually sells milk or cream at a
factory. factory.
8.-(1) All milk and creaz recelved A frotory thatl be pritd for
determined by Basooct content as (b) on the basis of its fat content as
determined by the Babcock test
plus the factor?
of milk supplised to the fat content measuring pioct to a factory, the tieasuring. plpette shall have a capa-
city of 17.6 c.e officially stamped.
(3) In determining the fat content of cream supplleft to F factory, the sample of croam taken for thasting shall
be welighed into a ten be welghed into a test bottle offielally stamped and shall weigh 9 or 18 grams . 1.- (1) For the purpose of determinIng standarde of grailes of cream for buttermaking purpones at a faetory, (the basin of grading shall be-
(A) fint grade cream to consiat of guality butter for making first (b) enality butter;
all other grade cream to eonistet of buttermaker cream aocepted by the and payment for the cream shall be buied on the proportion of these two classos.
(2) This section shall come into of. ant-Governer in ciation of the Lleutenmenavernor in Councll, and the Lieulish additional in Co
5. Any pervon who overroads under reads the Maboock test shall, liable to a penalty of not lenereaf, be fior more than $\$ 50$.
6. When the whey from a tactory is returned in the mame milk dans in
condect the provisions of this Act, actenang to their true intent, the Laleu-recon-Governor in Counoll, on the Ageciculture mation of the minister of Agriculture, may make such regula tions as may be deemed necossary, advisable or convenient, and may imposi pemalties for the violation thereof, and suoh regulations aball have the same force and
berein.
8. Nothing in this Aet shall apply to milk sold or offered for sale for human 9. The pena
9. The penalties imposed by or under the authority of this Act shall be re eoverable under "The Ontario Sum10. Thls Alictions Act."
the 31 Tht day shall come into force on It will be deen March 1917.
left optional with the patrons it is makers whether they patrons and bsals or the fat they adopt the fat for millk. Datry authorities of paying been able to arree whoties have noc axtra accuracy of taking the casein content into conelderation is worth the oxira trouble involved. It is probably on account of this lack of agreement thut the matter of selecting the basis to be used has been left optional. The reason for leaving the grading of cream so indefinite for the present is because it is felt that the cream gathering methods in vogue do not allow of the establishment of a satisfactocy system of grades. Where cream is luvariably gathered in indi. vidual cans, the grading is a comparatively aimple matter, but slnce fa Ontario a large amount of cream is gathered in large cand, each containing several patrons' cream, the grading is taken and. A small sample might be taken and cartied to the central ststion, but this sample might not cor respond in quality to the patron's cream as delivered, It is proposed to do nome experimental work in cream gruding this season, with the objeot of enicavoring to discover a satisfactory有

## The Two Methods Compared,

Seen by a representative of Farm West Peterboro, at former presiden, of The Eastern Ontario Depraskicne of sachation, and a datry farmer and Aa tory owner of wide experience fac the following figuros, whith we, gave sented in the Legralature whe pre bill was under dischasione 100 libs. milk, testing $3.0 \%$ tos butter fat $100.13 .0 \%$ ylelds 3.0 $8.5 \%$ yields 3.5 tbs buser milk testing ibs. mill testing bse butter fat; 100 butter fat Tasting $4.0 \%$ ylelds 4.0 lbs One lb , buiter, fat is equivalent to 2.6 Ibs cheese.

100 lbs. vilik testing $3.0 \%$ would teating $8.5 \%$ cheese: 100 ibs milk chense: 100 the would make 9.1 the would make 10.4 lbs , cheese. Total, 27.3 lbs. cheese.
27.3 lbs , cheese at 10 cents a lb . (net to patron) is sworth 827.30.
27.30 for cheg 10.5 lbe , fat is worth milk containing 3.0 making purposes; 78 cts.: millk containing tat is worth Forth milk containing 31.5 ths. fat is worth 91 cts. millk contalning 4.0 lbs Calculated
Calculated on a fat plue 2 basis.
 testing 8.5 plus 2 equals 5.5 ilhs mille and cateln: 100 Ths, milk teatiog fat plus 2 equals 6.0 lbs. fat and casein. plus 2 equals 6.0 lbs . hat and casein. 16.5 Des fot and caseln.
$\$ 27.8: 1.0 \mathrm{lb}$. and casein are worth 161.8 1.0 1 b . fat and casein ts worth Worth 88 ; 5.0 ibs, fat and caseln are Worth 83 ota.: 5.5 lbs. fat and easeln are worth 91 cts.; 6.0 thas. fat and 100 the wilh 99 ots.
100 lb . milk pald for on the pooling The above figures alow worth 90 ots,

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attention to keep it watertight. Amatite Roofing has
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HERE is a ready roofing that should not be over derful toughness and durability. You Ranin" of it for use on any steep roof. Inespemeire can't beat and will be on the job keeping out water for years.
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on every farm in Canada. YOU know the wonderful 'preserving qualities of is the greatest product ever turned out in commercinlized Creotpte. It will insure your woodwork against decay. Crace $\frac{\text { Levo }}{}$ Applied to the posts of a fonco it wili Creosote Oil add 15 years to that fence's life. By actual teste, it pene*
trates firther than any other preservative. Por
FOR the quick repairs that are dally neeensary on the coment. It is tenacionas amd It is an elastic, waterproof cement, it is tenacious and durable. Just the thing for
joining and relining gutters, flamhings around chimneys, eeal. ing leaka in exposed places, renowing gutters, staffing cornices and puting peal. glases in areenhousps or skylights. It is easy to apply, io acidd-proof and
Samp-proof and it "sticks".


## THE PATERSON MANUFACTURING COMPANY, LTMITED

 THE CARRITIE-PATERSON MANUFACTURING CO., IMMTEDof the aystems allowed by the Act country. The owner of the Jermyn come nearer giving the patron the real factory. in Peterboro County, a maker
value of hls mill than the peoling of wide method. On the latter basts eatig of wide experience, who, besidees being patron recelves the same price- 90 Schaduate of the Kingston Dairy cente a hundred-for his milk, whereas the four per cent milk is in reality ment mink testing, made the state worth nearly a fift more than the Jairy when interviewed by Farm and three per cent, milk for cheose mntitn He Holley he approves of the measure. purposes.

Although the legialation is a distinot step in advance, it may meet with eon-
siderable opposition throusthout the
how filives, however, that no matter
how fairly a maker may endeavor to make the teats, there will be some (Conttsued on page 12.)


HICTORIES that are easy are cheap. Those only are worth having which come as a result of hard fighting.- Beecher

## God's Country and the Woman <br> (continued from last week.)

SHE was not looking at him, but not tell you what my trouble is. You beyond him. In her face he saw that had illumined it at the pool "If I could belleve," she whispered, still looking beyond him. "It 1 could trust you, as 1 -have read that the But-it seems impossible. In those days, centuries and centurles ago, 1 guess, womanhood was next to-God, Men fought for it, and died for it, to
keep it pure and holy, if you had keep it pure and holy, If you had
come to me then you would have levelled your lance and fought for me without asking a question, without demanding a reward, without reasoning whether 1 was right or wrongand all because I was a woman. Now it is different. You are a part of
civilization, and if you shoutd do all that 1 might ask of you it would be because you have a price in view. I know. I have looked into you. I understand. That price would be-me! She looked at him now, her breas flurobbling, almost a sob in her quiver ing voice, defying him to deny the truth of her words.
"You have struck home," he said and his volce sounded strange to himself. "And I am not sorry. I am slad that you have seen-and understand It seems almost indecent for me to tell you this, when I have known you for such a short time. But I have known you for years-in my hope and dreams. For you 1.would go to the end of the world. And I can do what other men have done, centuries ago.
They called them knights. You may call me a man!
At his words she rose from whare she hed been sitting. She faced the radiant walls of the forests that rolled in a Elory. One hand still clung to more guickly, and the flush had ovea ened in her cheek until it was llke the tender strain of the crushed bakneesh. Philip rose and stood beside her. His shoulders were back. ooked where she looked, and us he gazed upon the red and sold tillows of forest that melted away against the distant sky he felt a new and glorious
fire throbbing in his veins. From the fire throbbing in his veins. From the forests their eyes turned-and n.et.
He held out his hand. And slowty her He held out hits hand. And slowly her
own hand fluttered at her breast, and own hand fluttered
was given to him.
"I am quite aure that I understand you now," he said, and his voice was the low, steady, fighting voice of the man new-born. "I will be your knight, as you have read of the knights of old. will urge no reward that is not freely given. Now-wilt you let me help

For a moment she allowed him to hold ber hand. Then she upatly with drew it and stepped back from him.
"You must first understand before
will never know. And when it is over, when you have helped me across the abyss, then will come the greateat trial of all for you. I believeycu must you that has will regard me as a monster, and draw back. But it is necessary. If you fight for me, it must be in the dark. You will not know why you are doing the thing 1 ask you to do You may guess, b.at lived a thousand years. Your one reward will be the knowledge that you have fought for a woman, and that you
have saved her. Now, do you want to help me?
can't understand." he gasped But-yes-I would still accept the inwill do as you have hised you that I knights of old have dreamed that knights of old have done. To leave you now would be"-he turned his had with a gesture of hopelessness"an empty world forever. I have told you now. But you could not understand and belleve unless I did. I love you."
He spoke so quietly and with as little passion in his voice as if he were speaking the words from a book. But their very quietness made them convincing. She started, and the color ieft her face. Then it returned, flooding her cheeks with a feverish glow.
"In that is the danger," she sald quickly. "But you have spolken the words as I would have had you speak buried - it is this danger that must bo buried-deep-deep. And you will bury it. You will urge no questions will fight for me, blindly, knowing only that what I ask you to do is not sin.

She hesitated. Her face had srown
s tense as his own.
"And in the own."
"your greateat reward can be only the
knowledge that in living this kaight. hoed for me you have won what 1 can never give to any man. The world man. For your falit mat me immeas urable, your love as pure as the with ered violets out there among the rochs if you live up to the teats ahead of you. You will think me mad when 1 have finistied. But 1 am sane, off there, in the Snowbird Lake country, is my home. 1 am alone. No other white man or woman is with me. As my knight, the one hope of salvation that I cling to now, you will return with me to that place-as my hus: band. To all but ourselves we shall be man and wife. I will bear your be known. And at the very end of all, be known. And at the very end of all,
in that hour of triumph when you in that hour of triumph when you
know that you have borne me safely know 'hat you have borne me safely
over t it ahyss at the brink of which over it ahyss at the brink of Which
I am hovering now, you will go off into the forest, and-"
She approsched him, and laid a hend on his arm.
ished, so wently come back," she fin ished, so gently that he scarcely heard
her words. her words. "You will dle-for meor all who have known you."
"Good God!" he breathed, and he stared over her head to where the red and gold billows of the forests seemed to melt away into the skies. CHAPTER IV.
Thus they stood for many seconds. Never for an instant did her eyes leave his face, and Philip looked straight over her head into that distant radiance of the forest mountains It was she whose emotions revealed


The Town of Sir se in the heart of the fruit district.
themselves now. The blood came and went in her cheeks: The soft lace at her throat rose and fell swiftly. In her eyes and face there was a thing Which she had not dared to reveal to him before-a prayerful, pleading anxiety that was almost ready to
break into tear. break into tears.
At last she had come to see and believe in the strength and wonder of this man who had come to her from out of the North, and now he stared over her head with that she had white look, as if the things between them. She could feel the between them. She could feel the rested All at once which calm har hand rested, All at once her calm had deserted her. She had never known a man like this, had never expected to know one; and in ber face there shone the gentle loveliness of a woman whose soul and not her volee was pleading a great cause. It was pleading for herself. And then he looked down.
"You want to go-now," she whispered. "I knew that you would."
"Yes, I want to go," he replied, and his two hands took her, and held them close to his breast, so that she felt the exclted throbbing of his heart. "I
haps in those years of centuries Ghere lived women like you to figh men ile for. ino longer wonder sung their stories in books. nothing down in that world which have called civilization-nothing cept the husks of murdered hones. bitions, and things that were Joys. Here 1 have you to love, fight for. For you cannot tell me must not love yout, even thousin swear to live up to your laws of alry. Unless I loved you as I do ther would not be those laws,"
"Then you will do all this for me even to the end-when you must sacr fice all of that for which you bave struggled, and which you have savedt

## \section*{Yes."} <br> Yes.

If that is so, then I trust you with my life and my ho
Her voice -all.
Her voice broke in a anatched her hands from him, With that sob still quivering on ips she turned and ran swiftly to litte tent. She did not look back as she disappeared into it, and turned like one in a dream and to the summit of the bare rock ridge from which he could look the quiet surface of the lake and hundred square milles of the unpee pled world which had now become so strangely his own. An hour-a little more than that-had changed the course of his life as completely as the masfer-strokes of a painter migh have changed the tones of a canya epic. It did not take reason or thought 0 impinge this fact upon him. knowledge that engulfed him whelmingly. So short a time ago tha ven now he could not quite compre hend it all, he was alone out lake, thinking of the story of the Woman that Jasper had told him do at Fond du Lac. Since then he had passed through in lifetime. What had happened mipht well have covered the apace of months or of years. He had met a woman, and like the wam unshine she had become Instanily unshine she hart of his soul fooding him with part of his soul, flooding him with Iful That he had told her of the iful. That he had told her of this ove as calmiy as if ahe had known of slumbering within his breast for years seemed to him to be neither un eal nor remarkable.
He turned his face back to the tent, but there was no movement there, knew that there-alone-the girl wa recovering from the tremendous strait under which she had been fighting He sat down, facing the lake. the first time his mental faculties bu gan to adjust themselves blood to flow less heatedly throush his veins. For the first time, too, the magnitude of his promise-of what ho hid undertaken-began to impress itself upon him. He had thought that in asking him to flght for her she had spoken with the physical definition of that word in mind. But at the outsel she had plunged him into mystery she had asked him to draw the anto matic at his side and leap into batio with a dozen of his kind he would not have been surprised. He had expet ed something lise ed something like that. But this could it mean? Shrouded in myatery bound by his oath of honor to make no effort to uncover her secret, he wis to accompany her back to her home as her husband! And after that-at the end-he was to go out into the forest, and die-for her, for had known him. He wondered if alitit had meant these words literally, toe He smilled, and slowly his eyes scas ned the lake. He was already begtrning to reason, to guess at the min tery which she had told him he coult not unvell if he lived a thousand years But he could at least work about the edges of It.
(Continued next week.)
A well planned day is a succenshl hay, in clanning the work.


W MORRIS, MANAGER 1900 WASHER COMPANY 357 YONGE STREET, TORONTO

## The Upward Look

## Travel Thoughts-No. 29

## Alma in Life

64 TV Praranores do ye spend money for that which is not that which satisfleth not $?^{m \prime} \mathrm{Ls}, 65: 2$.
At Sicagway we left the ship to tal the Alaska-Yukon Rastwey to Jake Bennet. The scenery all the way was 30 grandily thrilling that the impros aion it made unon me was that for the first time I had diffeulty in talking a full breath.
Most of the way we could follow the old trili, taken by the gold seekers. One could not but think of the thousands trimping it night and day, each with his load, hurrying, hasteming to stake the claim, the earlleat pos stble, for the gold that perisheth. We tallied with a woman that had mashed it with two hundred strange men, three hundred and fifty milles into the fnterior, for the sako of thls gold. We heard of two other women that did the same. When they had to return, having lost all, they attempted to talke a shorter trall winety milles long. They went without food and blankets, ahooting game by day and sleeping between fires at inght. They had at. moent made it when they resched a preat gfacter which they had nearly crossęd, when they came upos a deep crevasse with a raging glacler stream at the bottom. Orer this ther could not go, so were forced to return those long, weary miles in addition to the three hundred and fifty. At the end no one coald have recognised them, they were so black and gannt and spent: all for this sold!
One old prospector had dug for years in valn, but was confident that that then unexplored land must eon tain gold. But at last, discouraged with his fruitless quest, he started back over the mountatns. When he reached the summit and looked down into the valley, with a groan, he gante down on the pround. The thoukht, the long lonefiness and disappoint ment must have afticted hls reason begause where he had expected to find fofltude, were hundreds of tents and shacks and men. Gold had been dis. covered and thess were the seetrers.
As these people had staked all in this, thelr search for gold, how many are dolng this nill the timp the many over! Gold is necessary to a certain extent, but never whes the possession of It is the main chlect in Hfe, for the mere material things it will purchase. One of the saddest of modern trends is that in chonsing the:-1/s
work our youth and their parcate decide upon that which brings in the most money, not upon that which brings the truest happiness or that by means of which one can do the most good The great question in Hfe which is astced so often is, "How much is he worth ${ }^{\prime \prime \prime}$ Our Creator asks not, "What bas he?" but "What is he? ${ }^{\prime \prime}$
What each must ask himself more often is not "What have I9" but "What am ITM, I. H. N.

## light on Seciptural Prophicey

## The Lord's Return

F the Loed is going to return to the
earth astin what ahould our atutude
to thet event bot We thet event bot
We should earnestly desire it 2 Peter 3, 12-13; 9 Timothy 4, 8. We should pray for th, Rev, 22, 20. We should be ready for it. Math, 24, 44; Luke 21, 34-36; Math. 25, 1-30; 1 John 2, 28. We should be watehtis for it Luke 12, 36-37; Heb, 9, 28; Mfth, 24, 42-44. Math 25, 18.

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Does God Bless the Righteous $\mathrm{M}^{\text {Osp }}$ chinatians teem to hold the Woridio Gorntowill He will blese them in
What oundation in there for thit tully
We are assured in Math. 7:11, that God is willing to give good thingsuto them that ask Him, but we are also told in Math. 6:10-21, not to lay up treasures on earth, but in heaven, for where our treasure is there our heart will be also. The people of Israel, betore Christ came, while they were still under the law, were promlsed blessinge on earth, nationally and as individuals, If they served God, with their whole heart according to the law. In this manner they were to be the means of revealing to the nations around them the blessings that followed from seryIng the one true God. They sinned and Iater refused to accept Chriat as their Meratah. Therefore, they stive been cast off temporarily, but are to be restored to favor again. (Aets 15:14-17.) When the Jews were cast off the age or diepensation of law ended, and the age or dispenimation of srace was ushered in. We are Hving in this last age. The rewards promised to us are spiritum rather than earthly. They are better
in every way than those given to the In every way than those given to the Jews. (Hebrews 8:6.) "As believers born again, we have a new nature and belong no longer to the earth, but we belong to heaven." "If, therefore, ye have been raised with the Christ, seek the thinge which are above, where the Chriat fa sitting at the right hand of God: have your mind on the things which are above, not on the things that are on the earth." (Col. 3:1). "In the wosld ye shall have tribulatlon." (John 16:33). "Let your conversation be withont the love of money, ratimbed with your present circumstances." (Heb, 13:6). "For here have we no continuing elty, but we seek one
to come." (Tieb, $18: 14$ ). God dellghts to come." (Hieb, $18: 14$ ). God delights to bleas His childiren on earth, but because He wants us to oceopy our minds With Him and with thoughts of how best we may serve Bim on exith, the emphasis now is not on earthly, but on heavenly rewards. 'The natural man lives for the earthly things, and atrives for the things which are seen. His delight is in treasures which are here below, and connected with this life Is eare, worry, anxiety and at last the loas of that which was cheriehed." Note Lake 12:15 to 5 .

Lessening Housecleaning Terrors By "Aunt Fanny," Peterboro $\mathrm{Co}_{3}$, Ont 66 NCE upon a time, housecleaning days were the maddest and the saddest days of the year. 'No, that striking senu isn't one of my own invention. Dut read it some place not long ago and
it appealed to me as being very ay it eippeated to me as being very eapressive. In the days of our mothers and grandmothers, the advent of the spring selason was the signal to com mence turning everything topsy-turvy from garret to cellar, and there would be such a slege of white-washizg, papering and painting, that the house would be in a state of confusion for probably weeks at a time.
We don't clean house that way now. adays though, for which we should be truly thankful, I for one, however, have not yet worked out a plan to follow when house cleaning, so satio factory that it cantrot to fmproved on, and 1 imagine there are plenty of others the same. 1 am srading along others the same. 1 am srading along a few of my ideas ov the subject
however, with the hopo that other however, with the hopo that other
readers of this departiment will tollor
suit. suit.
My first rald this spring was made on the attle. It is one part of the house that I don't like partlcularly to clean, as there are always a nurlber of articles which have accumu lated during the year to dispose of some way. I plucked up courage ons bright, sunny day last week thoush. and set to work. Really it wasa' such a big fob after all. The thlags which reguired airing were taken down and hung on the clothesline, whill I swept up, washed windown sorted the articies of elothing and put them in their proper places, or put them in their proper places, discarded those no longer useful. Ing and arranged it so that I can lay Itg and arranged it so that I can lay
my hands on the various articles my hands on the various articlea
Whenever they are needed. The boxes whenever they are needed. The toxem
and trumis in whlch I keep the winter elothing and bedding, were cleas ed and alred, ready to receive the articles when the weather is warim enough to discard them.

To-day I cleaned the ceiling. may seam rather ridiculous to do the attic, thent the cellar, but I like to got, the worst, Jobs done first, and the cellar can be cleaned, even it ta weather is cool and wet. Some house wives might object to cleaning the cellar before the furnace fire is ouc I don't consider, however, that much diust and dirt will sceumalaze from now on as far as the furnace is coe oerned. Our furnace in in a small room in the cellar separated from everything else, so that dirt and dust is redueed to a minimum at all times. Any vegetables and applas still in the cellar were ploked over and all decayed matter removed, shelves were washed off and as a finishing tonch I gave the floor, whic is cement, a good drenching. The cellar floor slopes slightly to one and so that the water runs off into the drain. My cellar smells sweet and Clean again and I am exceediagly thantital that I have some of my house cleaning ont of the way at least.
If nothing intervenes, 1 intend cloaning the pantry to-morrow. One has to put in 80 much thme cleaning the pantry and Eitehen withoot sob ting showy results, that I don't liko leaving them till the last. But thers I have talked iong enough and mat get a good reat to-alght, so that I wili be "feeling fit" for to-morrow's duties

Peanut Omelet: Boak a slice of bread in lialf a eup of froeh malk. Best two eggs, whites and yollos separately, and tarn on the milk and bread, to gether with a half eup prepared per nute and a little salt and pepper. Pon in berttered pan and oook as usnal.

FARM AND DAIRY.

Terron

Co, Ont maddort reo | seny |
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TH1 Thriving without his Mother .an
 grunes Car Neal

Weanthe to no not-back to the calf their rete Cardiner's Cair Mfoal with Milm of soparatod milik. This Moal pavides tho equitruimat of tho eroam to new milat in overy way.
 (ruaranited $85 \%$ to and of Fat ( Curditinery the most valuble mato Meal on the market. Calres, Young alite lamies and littie plest thrive o. it splondidily for the firat fow monthe fiter whantace
Put up in 25,50 and 109 Hb , beaf Itrour deaser does't han lit ol, werito (is for pricose and intictation zbout


GARDINER BROS.
Foed Specialiates SARNIA, Oat

B'ue Jay
Wie blue juyis a conieplcuous mem
ber of our bird populatlon east of of our bind population east tumn, when his orilliant plumage antrasts vividly with the frown foilage.
Bven in winter he Bven in winter he stays with us, though at this time he is leas common along our iorthern border. In spring and summer, while by no means unoommion, the blue jay is not 30 oftem whiced, as the retiring dieposition ing season assists in pring the breedtrom enemies. This also allows him to carry on with considerable tmpunrotbling of which in practice of neet been rightfully accused. Examination of 530 .
leoted at all times of the yeirc in colof our tastern States and Ceir in 30 fhows that insects ormprise about 32 per cent, of the /eaprly sastenance. furions, the rourths of these are inJurious, the remainder belng neutral or beneflial. Of the injurious insects
grasthoppers form the larest in Asshoppers form the largest portion; Caterpitlars are connapleuous in July

and august and at this time average In the consideration of the verte. brate food of the blue jay we are construetion with the problem of the destruction of wild birds and their egga special search was made for every pos spble trace of such material in the stomachs, and in 6 of the c30 were
found the remains of wild bfite found the remains of whid blinde or
their egges. As this tralt of the fay appears to be most pronounced during poserble for many birds which have suffered from his boldnees early to the season to ralse another brood un-
molested. molested.
Complaints that the Jay is the in the fall has beann varified to corn tain degree by stomach examination. This grain is taken in every monkh of during winter and greater guantities much of it is necessarll spring, when it forms inont is inserily waste, and vearly food. Cultivated frults the various kinds are eaten from Jone of the end of the year, and the 15 per cent. taken in July apparently fustifies complaints against the ofrd on this score. The favorite vegetable food of the blue jay is mast of varl ous kinds, acorns predomlating, but beschnuts, chestnuts, chlagraping, and hazlenuts also are relished. Wha frutts are eaten during the summer and fall and constitute about 7 per cent. of the yearly sustenance
best serviees to man in deatroyins grasshoppers late man in deestroying feeding on hibernating finsects and the egso as they do in the case of the tent caterpiliar and brown-tafl
moth. The
The exception of sogetable food, with the exception of nome cultivated frult and corn in the fall, le largely neutral. specles is the criticism against the birds and their egen.

Horseradish roots should be planted an eurly in the epring as posefble Small strutght, roots the sine of a lead Hined. Set them twelve to ofghteen tnches apart fan the row.

Ontario's New Dairy Legislation (Continued troun page 18.) lests and start complaints. At first he Was out and out opposed to the Act matil he heard that they had the opdon of adopting the fat plus 2 basle He did not know as yet how his patrons would look upon compulsory teating. The queation of payment on a qualliy beslis had been discuased at three of thetr annnal meetings, and had been voted down by a majority of five or might be so ruach occasion. Makers work that the testing would the regular assistants, with the result that sus plelon might be aroused. He was in official the Government sending out oticial testers, If makers had to do pense and extra work, the added exsmall item when competent makers are so hard to secure.
The Act doas not come into force un makers ample 1917. This is to allow selves for male time to qualify themseives for making the teat and to edu-
cate public regarding the proposed change. Instruction will be griven by official cheese factory instructors, by this point Mr. Gillesple stated that he ild not anticipate that mueh difficulty would be met in having the makers Atready. proficlent in the use of the aiready - proncient in the use of the
Babcock test, and any man with sumis. clent intelligence to secure his diploma cient intelligence to secure his diplomaa
as a cheese maker should have tittle difficulty in qualifying under the Act.

## Pure Seed Raises Yields and

## Profits

## By P. E. Miller.

PURWHERT2I seed grain adapted to growing will under which it is lds very materially ovease orop or unimproved seed improve his grain seed Any farmer can A fow dollars spent for purebred, im proved seed grata will be sufficient acres the following to plant several proved seed should ye put This im. by Itselt or st one end put in a plot feld. Care should end of the regular vesting to see that it is taken in har from the rest of the kratn separate main field is growing a different the oty, it is well to put this seed in a plot by thselt. The seed bed thould ov well prepared and clean. When harrested the grain should be well shocked and eapped to avold damage by the weather. This will msure seed grain of higher, quality and actronger surmmation.
The next year the seed produced on in the general feed plot may be used sons t thene the flarmser and in two sean-pure-tred grain phorebred grain. This kind of grain, and grown on cleaned, treated for smat the glewn and improve the quality of the yleld and improve the quality of the amall-grain crop, and a inger erop
will be obtalued at litile increase Will be obtalued at little increase in the cost of production. The sale of purebred grain for seed will make a profitable slde line, too.

This spring is a good time to begin making the change that will put the tarm upon a pureseed basla

## Dairy Notes

THE time to feed doiry cows liberally is when they are milking well. Don't wa;, until they begin fall off in their flow.
Pare, fresh water is
Pure, fresh water is one of the first essentials to a good milk flow during hot, summer weather. It should be where the cattle can get it at any hour of the day or night,
Successful dairying is a three-sided aftair, breed, feed, weed. Upon elose application to these three prinof amateurs and professional alilure


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## Independent of Hired Men



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"Empire" outfit consisting of one double unit. One man caa operate two double unils. This-makes milking a "mnap" Wuthen" Empirt" youcan keep mare cown-milik
them resularly and unilormly-be independent of
 of militiog aifor a hard day's work,



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you saw the Ad. in FARM AND DAIRY.

## Contagious Abortion: Its Spread and Contro <br> Better Butter Bigger Profits!

(Conitisued from page E.) organs-vagina, uterus, oviducts, and ovarien-aud learn the character of the divease. If it is curable, the neces-
sary treatment should be applied; if asry trestment should be applied; if incurable, the animal should be sent to the butcher.
When mammitis, of "garget", of the above described type occurs, each cene should be handled by a competent veterinarian. The dairyman shontd always bear in mind the danger of this infection being transferred froun the diseased quarter to the healthy quarters of the same cow, and to the healthy udders of other cows, through error on the part of the milker. A the stable to be milked, and the disossed quarters should be millied last. The diseased milk should be drawn into a pall partly flled wilh a itrong natiseptic solution and safely disposed of, and the udder, as well as the hands of the vilker, carefully waehed and disinfected.

## Treatment for Bull.

It is essential, in carrying out any plan of sexual bygiene, to inelude the bull. His sheath and penis anouid roexive the same care as the vagina and vulva of the cow. In general, the sheath of the buit ahould be douched two or three times a week turonghout the year when not in active uae. At the time of breeding, the parts ahoula be douched shortly betore and fminediately after each serviee.
The most practical method tor carryIng out the dotching of the vaghate of cows and the sheath of the bull and washing the vulva, tail, thighs and udder, from the atandpoint of efl ciency and economy, is as follows:
For the irrigation of the genital organs and the tail, vulva, thighs and udder of the cow, we recoumend a gravity apparatus conslisting of an ordinary gaivanized pail of about ais gallons capacity (for large herds), fitted with a stopcock. To this stopcock attach a pure gum horse momiach tube. Having filled the pail with the desfred solution, elevate the apparatus to about three feet above the cow, thus securing suftielant gravity pressure to cause the solution to flow freely. This Iy most couveniently accomplimbed by running the pail on a manure track or speefal track construeted for the purpose. The end of the stomach tube is inserted into the vagina and the solution allowed to flow into it by gravity untll it is eompletely filied. Any tinuer eak make the pail to order. The stomach tube may be obtained trom any dealer ta veterfanry instrumenes.
The tube recommended for cows is too large to enter the shenth of the bull freely. lastead, one sbould use a pure gum home eatheter. Since the cailieter is too short to afford the desired gravily pressure, tis length should be facressed by the addition of a piece of ordinary rubber tubing of abient the same size. The pall of abont the somended for is unneces sarily large for bulls, and should be replaced by a vessel of one gallon ca pacity. In douching the bull, the tube is firat to be filled with the fluid, the end of the catheter introduced well fiside the sheapt, and the sheath open ing compresied by the hand until the shenth is completely distended.
aTtie pie that le belng eroum-and fattened for market," says the In diana iharmer, "shouid have hetween siantenths and seven-temths of a pound of digeatible protein dally, per 100 lbs of digeatible protein dally, per 100 has of live weight and this sioning the growing period. During during the growing period. During
the tavtening period about halt of thls the fadtening period aboat hait of this
amount is gufficient. The reduetion, amount is sufficient The redaetion,
however, shoald be made sradusily and extended daring a pertod of tour weelis time."

II you whll jowe hetter to b menth med nilocm, tue the
"BRITISH" Butter Worker

Adopted by the best dairies le GL. Britain and Canade. Makes the botter firm-even-consistent ali through. Renaltu in better butter and bigear prifital
 Ind mo in
MAXWELLS LTD.




The wheat th te during the In the United takin inte ather appeer No 1 Northen
in is $y_{1}$ Na
Ontarlo wheat

## With Labor Scarce This Year theStandardis a Real Necessity <br> The soarcity of farm labor is a very pressing problem. Every means must he taken to save both

 time and labor, because there are fewer to do the work on the farms this yearCertainly, the old-style gravity method of separating eream should be replaced by the lator and time-saving modern method. It only takes 15 minutes to skim the milk (if yoi buy the right size) with a

and only a few minutes to tash the separator thoroughly; a mere fraction of the time talien by tedious
gravity method. The Standard
dinary cream separator. It is an time than an orrunning machine, and a pergon therefoeedingly light quire frequent rests during the therefore does not reis placed exactly at the right seight for easy turning and $\mathrm{Ht}^{\prime} \mathrm{s}$ a ahort lift to pour the mighk into fts low sups. ply can. The Standard was designed to save the utmost pooerble time and labor, as well as to establish remankematleally, the oll reservoir only requiring to be filled

## Made in Canada Cream Separator

every two montha, Jost think of what such a maiohine would mean to you this busy year.
Think, too, how much extra money it would male for slims down to . 01 per cent, whieh Tests show that it but onetenth of a pound of whiter means that it losea worth of eream (at 25 e a buiter fat, or $21 / 4$ cents milk skimmed. You 25 c a 1b.), th every $1,009 \mathrm{lbs}$. of by using gravily mathods about $\$ 12$ per cow per year separator, Don't de
Standard. Theme are prosperogs is the time to get a and almost every farmer can afford to own a high-elass

separator. In fact, from a dollar and cents standpoint no-dairy farmer can afford not to own a Standard.

Write for our separator catalog showing Government tests, skdmming tables, etc. It's well worth

## having, and is free. <br> The Renfrew Machinery Co., Limited, Renfrew, Ontario Agencies almost everywhere in Canada

## Market Review and Forecast

 plespint feature of reporis production. A hand ts that frill whooporis thas come in the dangerous month of Apri, with litite
damage The dairy sensen to thous damage The dairy seapon is now on Fith i groater voluale of produstios than Changes in any pupvious year. important. Wheat is hower, coarse inseins a trifo stronger, erto promiving a refuethon, and other protuete steady.

The wheat market has ehnnmect but lit-
the during the wrek when the enormous
supplien of thas that are supplies of wheat that are now beine held In the United States and in Canada are
taken into coasideration, the sitaation



 COARBE
and pricess hayre advanced somewhat, frm,




 Jocied, 86 to 8 commercial $96 e$ to Mie, re:
of the export or the export krain trade ts the food goWootern onts, and oonyers for Caniadian Is boling done for shifiment yia Inited
 Le TVes fod, 86 g to 87 e , barley. malting. Thic to The; fred, 6ke to Mis

HAY AND STRAW.
Doalers are buyine on track as follows:


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POTATOES AND BEANS.
as lat woek: Hiac. Ontaitio sitne leveln



 JOHN STEINACKERR, R. R. 8 ,
$\qquad$
Only 2 bull onlven left. They are atred by a mon of
fine individuals. Write wa JOSEPH O'REILLY, R. R. 9,

PETEABORO, ONT.

tor buils and eownj offerings of stockery
Enater asteors
Heavy chorse ivieorn Handy choloe stears
Butchers' do medium dut common
Butchers'
do soows, choles do good
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Butchers' bulls, cholee Fooders, 900 to $1,000 \mathrm{lba}$
do bulla

## Stocker. <br> Stockern ehatee, 800

 to common, ththt

## Cutters

Ineuiry way aotive for milith oown, and

 \$6.25; bot ceives, 52 to $\$ 5$ each.
The Hemited mupply of mall meats was



Packers oflicered $\$ 11.40$ to $\$ 4.65$ off aars country pointa $\$ 10.65$ to si0.90; sows, 12.50 tose.

PRINTER'S ERROR.
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eorrect address in his advertisement elaeeorrect

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THE AVONDALE FARM SALE. THE lending nomper at A yondele herd 1 is of courde may betho syivia, who

Queen Mowoeden Dione zud, aro freah at An oux make "good palf. Koradyke
 Indy Korndyke, the 38.02 ib . daushter
of Fontiac Lornayke. King Pontine Artis
All the daushters of King Por All the daushters of King Pontiac Artis
Cmnada th the saio that have come to
mik have boen omicially teste exoept


 with a $22-1$ b. imported dam, is young cow
that has a future bofore ber. Two ox-
ceedingly fine individuall, fuld ininters, ceedingiy tine individuals, fuli minters,
Pontige Artis Sare, with record of 15.25 ,
and Pontime Countesi Korndkye, not yot and Pontiae Countems Korndkye, not yet
come to milk. The dam of theae two
sold for $\$ 500$ at the leat Avondale sale. and they are both show animala. Three ful ainters wih attract attention, being
daughters of a nine old cow with a $2,-1 b$,
record. Grieelda A DeKel. the oldest of record. Grizelda, A DeKil. the oldest of
these daughter, has no rocord, as it wai mose dation to test her latit calving, but
has been bred for some montha: the oehas been bred for some montha: the ab-
cond, jugt a 8 -y, -old, has just finished a cond, Junt a 8 -ys, old, has just inisied
record of over 20 ibs. There are several


## stuff. Amongt the youncer things are two or

 Amongst the younger things are wo orthree Which Mr. Hardy is puting in be-
ehase we knows they will advertise the chuse he knowa they will advertise the
berd from heir individually alone. it la herd from their individuaility alone. it is
with regret that they go out before being tosted. Two of theie, one being a year-
ling. the other sevaral months old are

 yonior, with over 27, liss, and another
daughter of K.P.A. Canada bas fuat fin-
 eredit to thy herd inats of Wooderest sir
 Avondele Farm, the mout noticeeble my-
Fividual is Avondale Pet, which, with a dividual is Avondale Pet, which, with a
young buil relatod to her elso on the young butt related to her etso on the bull's olfe, are, gopding, examplos of thardy is resy to guaraniee that this yearting belfer will
 3-year-old record. The young bull re-
ferred to has in $18-\mathrm{lb}$. s-year-old dam, ferred to has on $18-\mathrm{th}$. 8 -year-otd dam, Among this younger aturf in Avondale Dekol Plus, a maring daughter of a
19-db. A-year-old, bought by Dr. Harwoed at Avoname's lait male, this youngater be-
Ins inred by Woejorest sir Clyde.

# What does a bevel gear cost? The Ford owner saves $\$ 12$ that the other fellow has to pay for one 

$\$ 16.00$-Average cost of the bevel gear of cars priced around \$10n0 and less. $\$ 4.00$ - Cost of Ford bevel gear. $\$ 12.00$-This stays in the Ford owner's pocket book.
Other Ford spare parts are just as low priced in proportion-the 26 most called for parts altogether cost only $\$ 8.04$.
And less than a dollar a year as a total expense for spare parts is not at all an uncommon experience of Ford owners.

## Tisalfotorbompany  <br> FORD, ONTARIO All eare complataly equipped, ineledteg oleetrie hesdilghts. Beutrosent loes met

 King sogis
dom of this hoiler is now in toot, snd a
$30-1 \mathrm{~b}$. recard is hoped for. This lie one of the attractions of the sale,

Dwo fine individuals are daughters erom unteoted oumi by Plotie Korndike I Aad, | by K. M. Dalsielsh, Kemmore, Ont. thts |
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| bull him hak a dosen daughters from 26 | to 28

 cory no yearing aon of countess ses fron Pride of Orchard Hly, one of Ayon.
dale's ihow-rtay winners with over $27-\mathrm{lb}$.
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Klng Pontiai Arus Carads now has is King Pontial Arus carada now ar be
tented daughters, nd hev records aro be
ing mide wookly of theos 28, two have recently beon pluthed by a . A . Brethen another at mononhis made in, if with
 ouhers over 22 at at mont elght oetween 20
and 21, and aver 19 to 20 ,
record both in numbers and in averige comparod with the whole nu avber of ever made in Canedi, ase, of course, con aldered. One now in teot is makipg 24
Ibs. Whe shall give further detalls in ent advertising as records are made, an many now listed
HIGMLAND VIEW OFFERINGS.


PEERLESS BAG HOLDER


## WELL DRILING WELL

Own a machine of your own. Canh
of eany terma. ynany stylea and sizes for Whl purpones, Write for Circula
whualis anos., 44 W . State fit., lihes, M.Y.

## Cream Wanted -

We have boen in the
Our service to farmers to the ver
We eupply eans, both small and large, and do all that any, othe
rollabie firm can do-and the some.
Drbp a line for particulars to the
Toronto Creamery Co. Limited Teronto

\section*{| Cotton Seed Meal |
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| Linseed Meal |
| and Flax Seed |
| B. pralach, Bax 3. Forent. Oat' | <br> | Cotton Seed Meal |
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Douglas \& Co., Mfs. Monse
POR SALR AND WANT ADVERTISIM THREE CENTS A WORD, CASH WITH ORDE

| FOR SALE-Na. 25 De Laval steam. Tup: bine Cream separator. in partect ofv der. <br> Dunrobin Farms. <br> Beaverto Ont. |  |
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| ANTED-Thrse avth of syeond hand |  |
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| Mox 113, Fin good omat Dairy, Heterbora |  |
| WANTED-Chense maker for the lyif seasen. Apely Peterborg, Ont. |  |
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| WANTED-Helper to worlk plant. Ont who intence golng to Dairy Echod netl winter yreferred. Write at onct, atatfing wrees, to Bex 233, Farm and Dairf, Petechoro, Ont. |  |
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\section*{Cure Your Cows of Caked Udders EgyptianLLiniment <br> - APPLICATIONS GUARANTEED} | FOR SALE-Na 25 De Laval steam Tur: |
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| bine Cram Separator. in pariect of |
| dar. $\begin{array}{l}\text { Duncobln Farms, Beavertion }\end{array}$ | Ont.




## AVONDALE FARM'S <br> SECOND PUBLIC SALE

## BROCKVILLE, ONT, MAY 17th, at 10.30 a.m.

This notiee just marks a few of the high points. Our newest Herd bull is OHAMPION MAY M. Jones PONTIAC, a son of May Eeho Sylvia and Spring Farm Pontiac Cornucopia, Francis Note that May Eeho Sylvis pound cow, K. P. Pontiac Lass.
and $\mathbf{2 5 4} \mathrm{lbs}$. of milk, the best day so far 148 , being a has over 41 pounds butter in seven days We shall offer May Beho sylvia's far 148, being a record in the breed. Artig Danada and sired by the great 44.18 lb , bull of F from her daughter by King Pontiac群 having both granddams with over 40 lbs. Average 42.60 . UANADA from 60 daughters of KING PONTIAC ARTIS 16 to 21 lbs from 6 mos. to ${ }^{-3}$ yrs-all milking, have records 16 to 21 lbs . as 2 -yr-olds.
Six (at least) daughters of WOODOREST SIR OLYDE -all youngsters of surpassing quality.
ALICE TENSEAN, with record of 29.12 and 117 pounds in 7 and 30 days, and over 100 lb . milk in 1 day, will be offered she is bred to "CHAMPION." Several others with records from 25 to 28 lbs .
Remember, that King Pontiae Artis Canada has now 32 over $23 \mathrm{lbs}, 5$ others over 21 lbs . and 8 from 19 to 21 the most in Canada-among them 2 with records were made in other hands, a list that satisfied us as to this Bull 2 yr-alds, and 2 of the 21 lb . Many are bred to May Beho Sylvin's son "CHAMPIO us as this Bull's great worth. refused $\$ 500.00$, Several others bred to her "CHAMPION," for whose single serviees we have for $\$ 5,000.00$ to Dr. Harwood, of Vaudreuitl We shall also offer several young bila
backing, and good individuals. This is an all dam's from 18 lbs , to 82 lbs .-all with extended A. C. HARDY, Proprietor

BROCKVILLE, ONT.


## "NATIONAL" Separator Owners NOTICE!

AS successors of the Raycaond Manufacturing Company, Limited, of Guelph, Ont, it io ubeolutely necasasy for uat to revise the lint of namees and addresses of all owners of "National" the "National" Seporator- - mechine that in the lompt aervice and attention in aupplying parts for W. are anxious that the change of that in the leat twenty years has given remarkable antiafaction Owner of a "NATIONAL" SEPARATOR.

It it in your own interents, then, that wo ank you to mail the coupon, properly filled out, TO. DAY. Wo will gladly send you the new book on "Superior" Separator facts, thowing the improvemente we have made is the new machine wo now offer under the name of

## "Superior" Separators

The ball-and-socket spindle, ensuring an aboolutely self-balancing bowl, in but one of the now and exclusive fenturres which place the "SUPERIOR" in the very front rank of cream separatora. Even if you are not a "National" owser. mail the coupon to-day for the booklot.

Please Mail This Coupon TODAY. The ONTARIO MACHINE COMPANY, Limited 18 Bloop Street East, Toronto
I Iown a National Separator, Number 1 disposed of my National Separator to
I NAME ADDRESS
I Please send me catalogue of 'Superior' Separators.
NAME

BOOKSWrite for our catalogue of farm books. It's yours for the asking. Drop us a postal tonight.
Book Dept., Farm \& Dairy PETERBORO

## Fairmont Holsteins

Present offoring a fine young bull, ready for servioe, sired by Ourvilin Sir Toake Colantha; dam, Reasle Banks Meroena, 16.23 libs
butter at 2 years. Write to-day, Peter S. Arhegast, R.R.Ne. 2, Mitchell, Oat.


## SELWOOD AYRSMIN届8 Exter two December

Young bulln from R.O. P. dams. One fit for service, two December
calves, All from dams with sound udders and good teata. Write for breedcalves. All from price.
ing and price.
Eigin Co., STRAFFORDVILLE, ONT.
LAKESIDE AYRSHIRES
A select lot of young bulls, all ages, sired by Auchenbrain Sea Foam (Irpp.)
$3575 S^{\text {a }}$ ( 8865 ). Grand Champlon at both Quebec and Sherbrooke, from Record of Performance Dams. Write for eatalogue.

Proprietor:
Manager:
D. MCARTHUR,

GEO. H. MONTGOMERY,
Dominion Express Bidg., Montreal. Philipsburg, Que.

18 HOLSTEIN BULLS
Grandeons of "Kink Segis Pontisc," "Ray Apple Korndyke 8 ch, " and others.
Dams have milked from 100 ibs. a day down. Aged from 18 months to a fow daye. Write us to-day MYou want, a bull. PORT PERRY, ONT,

FOR SALE - HOLSTEIN BULL CALF
6 mos ola Good Individual Mhack and Whike White dighty predominat-
 tiac. (Tracy's Herd Bull). The home of Lalu Keys.

SIRES NELATED TO JEAN ARMOUR ETETE We have several ane Pure Brod Ayrethere bulls from one to eistitegn the prosent Wond's Chamption, Gaselaush May Mischiof.
(Oxferd County).

OUR FRONT COVER CUT.

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 She in being beld over tial next winter
when It is expeoted she will bo further
heard from. HOLSTEIN SALE OF D. A. MCPHEE. .T. Hese entire berd of pure brod Holiteine a Springs, Farm, Vankleek All, Crystal aold at public auetion on April the 20th,
-Auctioneer Thos. Irving omicting. The Auctioneer Thoa,
hughent grioe realized was for Jogaie De-
Kal of Cryat Spring bought by Prof,


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\section*{Buy the Best Blood by Being} | 36 | DISPERSION SALE | $\mathbf{3 6}$ |
| :--- | :---: | :---: | :---: |
| Head | PURE |  |
| BRED | HOLSTEINS | Head |
| Wilsonville, Ont., May 2, 1916 |  |  | 36 Head 36 Head Wilsonville, Ont., May 2, 1916







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Here is an opportunity to secure some of the best Holstein blood from the herd of C. C. Kettle, of Wilsonville, who is having a dispersion sale of his entire herd of show ring and high producing Holsteins on May 2.

Included in this offering are several first prize winners at London Fair, 1915, and several that have been prize winners at Toronto Exhibition. The cattle offered are all young, bred in the purple, and in the pink of condition. An opportunity that does not occur often is here presented of securing some good prize winning animals at reasonable prices. This herd contains the blood of such noted sires at Starlight Schuiling DeKol, Grace Fayne 2nd, Sir Mercena Fairview, Mercedes Korndyke, and Ourvilla Colantha Sir Abberkerk. Make a point of being at the sale. Trains will be met on day of sale at Vanessa station, T. H. \& B. Connections with M. C. R. at Watefford; G. T. R. at Brantford. Catalogues will be ready on April 20. Write for one to
the proprictor.

## C. C. KETTLE, Prop.

L. H. LIPSIT, Sales Manager.

## April 27, 1916.

FARM AND DAIRY





 "ruuting protising, heifer is found in
 conformation and is one af moat perfeci
 and will matio. a pronitable fine trdividuai fur sumer onew, Gypgy Ouemer header yatritold, has a record of 56 t thata, milik and 10.61 libs. butter, Sho and has milik
cill, fit for servies, will giadden The five daughters of Pletio Korndybe Tat ane mitiers of PAt) Korntykorndyke afo or wive. Ah. Herdy's mito a year
quarter wister of tis nother and turee-. In tho ammatis to to sold. aro inctuded
 for then th milk, ail ready to make monney ${ }^{2} \mathrm{~F}$ Breeders cannot afford to mina froat dilipen cinnot aile afforn to misa this Farn and Dairy and write to-day for a
caldogue to Wm. C. Stevens, Philips-
vile,

## producing ability in a new

$T$ HERE are many unsque experiences To untested herds, animatiolocting from
 Fascorvirily the wett haw bown breeder of Setober, He purchased from Mr, Authon
Somesa, Maude Snow Ball, that so mar breakin will recall by her that so many oddtion to being a heavy producer, the in also one of the finest dairy typese that
 Mitested fimily. Mrecond and wain from an then he saw what Maude was able to berd to has just recontly completed records
 of daug over of Mbs, A Junlor two your ducing ability is toat tremendous probreoding and Mr. Cohery mat be be of of take up the work of westis wir, somer breeding in the futures from this inne of

## FARMERS' CLUB

Correapondence Invited.
P.E.I.

KINQS CO., P.E.t.
MONTAGUE, Aprl/ s.-We aro having
very bad wather,
evorything pointing to
 a kreat saareity to go sway yet There is tinay moldiars bethe sultion od here, The
 Pogut arot. Potting thoir wood sakwn, nowe and aro puituing thing tin ahapo for tho

## ONTARIO

HASTINGS CO., ONT.

## Trase buay matilise many of our farm-     WELLAND CO., ONT.

Bridaseyng, April 11-Wo are havA fou pooplo have airden ing buti gone,

 Sutter, ion congy butter to be very bigh.
 WATERLOO CO., ONT. Ay Fincors thot on a monting of the Plenaid adder ens by Mry Halbort, of tho
lanwers to unita At the elone of the
Precting.

From a Women's Point of View
I you can let your foot-iree frienda sur When al your howechold wheole are If you ean seart a meat when all about Are piled about you thinge there wan' if you can sorve them simple thlisen sor Without' a word about the plight you're The white you say in your noul, "Be And; in the bonom parbt that follows, If you can love your ohild with all that's Yet ofrmly say the word that mullit bo hooe tarrful eyes and nover Jot them And in the din that follows keep your if you hanow life, yet truat your elalidren Booause you toe that God who made To vancuathe, sin pave unto men the Soirrit Juei as to fighave unto men the Soirit

## if you oan win rempeot from those who

 And rue your home, and not let it runIf you can froce the detalle nor let them dwart yous the dolank nor let them and koyp your outlook bpopd, your vieIf you goun lot your sander of time run Into a beadlong atream of endlom tanks. gladly, things you hate and do them
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If yot oan do, witbout the dunt of coling fine, If you. can riethe the worde and doedr And lean on Lring
if you can op love yet not bocome a vine And wisely a moet all fifte and mother Fhar not to slare the burdens of your What Time shall aak, that, Woman, you ane. Dowling Foote in Sunday Maga-

## OLD ORCHARD FARM

Oftens a young bull, ready for service, sitrod by our senior Sire, Prince
Pontino Artis Woitorf, whot, sire is King ady Waidert Daked 28.50 the it seren dam of Lady Waliorf Eletje, 32 ths, at three he dam of the young buly onted ba. mllk in ane day. ales, some yone loikeyse Keyes Hengerveld, over 90 our King Segis Alcartra Spoffore young bulla from high producing dama and ed. b, Purtelle

BLOOMFIELO, ONT


LAKEVIEW STOCK FARM, BRONTE, ONT. Breoders of hish-

 E., F. Oestenn, Propritetor.

## for sale at Highiand View Farm <br>    M. E. MAYBEE, <br> TRENTON, ONT.

 grandson of Pontiac Korndyke, and a brother of Pontiac Lady Korndyke,
38,02 butter in 7 days, 156.92 lbs .30 days-world'a record when made. Also females bred to "King." J. W. RICHARDSON, CALEOR When made. Also

## KORNGOLD STOCK AND DAIRY FARM

ymproved English Yorkshires, elther sex, all ages, Cholce
MOW of oreoding aga.
. McCALPIN, Korngold stock Farm, GANANOQUE, ONT


Remember the Date, May 3 90 HEAD

26 Two-year-old Heifers
Tlieven of these sired by Str Pet Posch DeKol, with ten more sired by Sir Quora DeKol. Eight young bulls, ft for service, from high testing dams of excellent breeding. The dam of one of chese has 7 day record of 30.61 lbs butter. Any one of these young bulls is worthy to head your herd. They are backed by the best Holstein blood, and capable of produciag stock that will help you roll up the records.


Complete Dispersion Sale Brookdale Holsteins Philipsville, Ont, May 3

The greatest chance of a ilfetime to so-
cure some of the ingh teating blood of Pet cure some of the ingh teating blood of Pet
Poseh DeKol at your own price. Every animal in the herd will be sold absolutely without reserve. The females are nearly all tested, and their records range from 18.78 lbs, butter to 30.61 lbs . in seven days. Gypsy Queen Rhoda, the 30.61 lb , cow in this sale is a splendid individual, and her bull calf ten months old, sired by a grandson of Pletje Korndyke Lad, is a dandyyou will like him,
Another nice young bull is sired by a son of Rag Apple Korndyke 8th and out of a 25 lb . three-year-old daughter of Pletje Korndyke Lad. Every female in this herd, except eight, is under six years. Twentysix are two years old this spring.

## 30 Cows IN MILK

Many with offeial records, ranging from 17 गos. butter ith seven days as two-year-olds to 30 lbs . butter a seven days for mature cows All except eight under six years, Secure some of these fine cow for your herd. You will and in them an you will ment that will pay you big dividends many times

TERMS OF SALE-Four months' credit on approved notes at 6 per cent All trains met at Brockville Junction and Philips-
ville station on day of sale and evening before.
W. C. STEVENS
H. W. IMERSON, Auctioneer

## Price's Erindale Dairy Barn

Equipped with O.K. Canadian Stanchions

## A Barn to Be Proud Of

## T surely is a dandyl. One of the finest and biggest in the country! Yet, why

 shouldn't you be equally proud of your barn? It's a mighty big source of profit to you, and well worth careful attention. Up-to-date equipment means more efficiency in handling the cattle, and, consequently, more profit for you. Every Dairy Barn in the country should be equipped with O.K. Cozadian Stalls and Stanchions. Because results have proven them to be the most satisfactory barn equipmert from every standpoint.
## OK canadian <br> Make Profits Sure

O.K. Equipment keeps your cows healthy and contented, thus increasing both the quality and quantity of your milk supply, and, consequently, your profits. Gives the cows plenty of room and freedom to shift around. Puts no weight on their necks. Does not tug or jerk their beads. Big kaees or bruised shoulders are unknown with this equipment.

Some Stanchions have a weak lock, but the O.K. combination gravity and spring lock is certainly a dandy. It is wide at the mouth, and apers in towands the notch. This makes it easy to insert the swing-bar, The catch is very strong and secure, but simple to operate. Yet no cow can open it, once it's fastened.

The swing-bar on the O.K. Stanchion is hinged high, naking it impossible for the bar to sag. The small clevis at the hinge prevents the iwing-bar from falling to the floor when open. Experience has proven that the most servideable way of attaching the Stanchion to the Stall ie by electrically welded steel chains. This is the method used with O.K. Equipment.

And Here's the Proof

## (2) Bever, quen Aug. $30,1910$.

 Dear sesver,Whille I was bullding a barn for Whlle I was bultding a barn for
a man in Frahkils Cou N.Y. Sate, itan In Frankile Cou N.Y. Gate. phlons i bought irom you taot yenr. He came and inspected them and thowe made on the Amerlepn side that ho io wiling to pay juty on
them. 80 plean ship s-in.e en them. so pleage ship s-in. Jarme Ovhelliy. white station, Frankiln $\mathrm{CO}_{3}$ Yiv. white
(staned) dames othellly. Owen Sound, Ont., Nev. 50, 1914. Gentiemen,-- between 350 and ars We have between a50 and then to be all they are eracked us to te. (Signed) J. H. Miccorkindale,

## U-Bar Stanchions and Stalls

O.K. Stunchions are made of the very best steel, in the U-BAR thape, which is the most rigid construction possible. This ensures great itrength and long service.

Save Money, Space, Time and Labor
O.K. Stalls are made of z-inch steel tubing with patented "T" clamp of malleable iron. This clamp is also used at all main joints. Only a bolts are needed to fasten it. This saves time in putting up stalls and makes a rieid joint. All parts are interchangeable.

You can stable more cows in the same harn if you change your wooden stalls to O.K. Equipment. Yet each cow will have the same wooden stais to as before. This often saves the expense of building a new barn.
O.K. Equipment gives yee a choice of 8 differeft designs: You can choose any design according to the ameunt you wish to spend.
Then, too, OK. Stalls and Stanchions mean a big saving in the time and tabor necessary to keep the stable clean. Their open construction makes it easy to fimsh oet the stalls and bed them down. They keep the mains Ined up over the sutter, fecping the manure out of the liedding. This meats a her anving is the amount of bedding usel. It also dows This meams a aig saving is tas ang of the cons' flanks and edders, In this way, much valtablie time is saved for other, and more innportant, this way
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