

HIS FIELD OF SERVICE.
-On farm of Thos. Chapman, Huron Co., Ont.

## The "SIMPLEX" <br> Cream Separator

he kiown in the laustration chine. It. is a convenient maohine. It la of oonvenient heleht tow down, and yet the Altocharis plpen are hich enough up to discharge into standard aized millk cans.
The maching is caelly acosessth's for oleaning. It is gubatan:
tial and heavy. It will tast altial and heary.
most a lifetime.
It wily pay you to know all about the "simplex." There are axaluaivo featurea on the "SLimplex not ther separator.
In adtition to the mechanioal construation which is afl to the good in your favor, wo. are aure thet there te no manuffactorer uniag a higher emade of matertat ithen we use in the "Bimplex" aepmintors. Take for instence, the bowl apindle. It is made of a reecial formula, furnished by one of the beat metallurgints in the country. In feet, the sompulting metalludgtat for the leading manufneturers of American automobilises/

Thls steel is subjected to a speolat heat treatment, wheriby it has an olarifie limit, thrse timea as hich as ontinary ateel. Thie meme ie truerof the bowl cover, and of the middils point or pinton, that meahes with the larger apur wheel. It to made of Veinadium steel, or nickel ateel, of the same lind that is used in the transmiserion gears in the best grade of automistites. We believe that we are she
ateela in cream separstor conentruction.
The "Bimplex," aa far as wre are able to Judge, representa a Mighor manufacturer's coent than any other asparator on the market. The two Hese-Bright Bearinga that go In ewery "Bimplex" Hand Separator, cost more bhen all the bearling gut together in most other cromm eeparators. And roe oas 10,000 bearinga at a ttens, we are able to furniab them as oovering over 10,000 benringa at a ttens, we are able to furniah them as axinot more than in pther machines
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 tree lllustrated literature about the "gimplex." Arrange to have atimplex" Cream separator on your farm. Then you

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BRANCHES IN ALL CITIES
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## Practical Experience With Mare and Colt

## Jun. Beth, Sinmooe Co, Ont.

TTT. don't go in very extenaively are reliable indicationa that her timie YY for colt ralsing, but every year is near.
we have one and sometimes dwe or three. We pisce our chief rediance for the colt crop in a brood mare that is now 14 years of age and that scarcely ever fails to present ua with a good lively youngster every spring. Up to the present time we have had Iline colts from her, of which she has lost onty one and the by accident We do not know her breeding exactly,
but heve found that when bred to good but have found that when bred to good Clydeadales she produces strong,
healthy colts which will attain a healthy colts which will
welght of around 1,400 lbs
welght of around a listle old fashioned in th. F. but I am a great believer in heving a brood mare that fo a natural born mothes. From my own observations and from what I have learned from the older men amongst my nelghbons, there have always been two or three outstanding brood mares in this district. I myself remember one who raised in all 13 colts of excellent size and quality. On the other hand, some mares seem to be always setLing into difficulky with their foals, so that they really doable the riak that
their owner runs in raising colis. My their owner runs in raising colts. My
old mare genernally his good luck and old mare generally has good iock and though she is getling oid, she seem
to be good for some years yet and I to be good ratse tif few more coltes from her before she is through. When her daya are ovar, I have another one coming do, which promises also to be a good one.

## Good, Natural Mothers.

Aa I said before, I belleve that the first requirement in the brood mare, ts that she be one of these sood, natural mothers. The pext thing is chat ane winter and spring months. I take parWinter and spring months. I take partlcular care not to put my brood mare at work where ahe has to wade through show the has to do any Jerking bueh where she has to do any jeriking such to as getting out aawlogs. Jogeing to
the village, drawing out manure, the viliage, drawing out and doing fetching up a jag of wood the farm, the ordinary trucking about give her abundance of exercles of will give her abundance of exer I make it a point to see that her shoes are on it a point to see that her sooss are on feat. I find that there de no diftienity in mefitine on a patr of shoes if they in naling on are required, and by using "neverare reguires, calks no sharpening is required. The danger from a fall can always be ellminated.

I usually have the oolt come late in the spring, generally after reeding The mare works throughout the seeding., but she is always given che preferrowing and plowing. I-never put her rowing and plowing. -never put her at such jobs as arawing stones, where there is a danger of overnindin that usually drive her mysel, so my eye on her and see that can keep my eye on her and she takint she id coming aiong ail become over heated. One precantion that should al ways be taken at this time in to work ways be taken at this time is to work her with a loos whin 10 inches longer is at than the ondinary find. I believe than the ordinary lind. I believe thet this period- of steady, work, combined with good, lib erat feeding, tends to make is smart and trealthy sole

## and healthy cole

As the time drawe near when phe tis io have ber cott, I quit worldng her and out out the heating teeds, As at this time there is nasually a L4tie grass, 1 let her pick around the yard. This keepe her contented and interested, as well as having a locsening effect. As to forecnsting fust when the colt, wal arrivar, that cannot be done very acing lons experlence with one brood ing luas angecie lenrm to dee brool mare is that one learns to be able to freaence of wax on the tectas and the sunken candition around the tail head

Proparations for Fonting
Ahout the only preparations that 1 make is to have two good wax-ends prepared and my lomite olean and with plenty of bedding in whieh she is placed for the night, but if the weaA placed for the night, but if the weaduring the day, I find that it is pert furing the day, I find what it is port feld. When the lletle fellow arriven, if find that it akways pays to be present, but that it does not pay to be too ofticious. It is beet to watch and see that it comes right, but I cud see that it comnes right but have nover had therm come any other have nover had thern come any other
way. As soon as the head in born, see that the nose is eleared. A litile assistance given at sueh times as when the mare is pressing, does no whet the mare is pressing. doos no ling time. As soon as the cord. is exposed, I tie it in two pleces with is was ond, the nearest about two or three fnches trom the coll, and the other four or six inches further away. The cord is then severed with a shari honife, midway between the placer where it is tied.
Some put salt on the newly-born wolt in onder to get the mare to take to t more readily, I, however, have hever had iny trouble with the mar ilsowning her colt. Thet's anocher divantage of having a brood mar that is a natural mother. Ninetenth of the difficulty that is experieneed aith eolts ta due to the unnatura conditions ander which the mare if sept during the lant few monthe of her pregnancy. Where she is worked to moderation and fed well, there in not much danger of havis $g$ tronble and it a mare shows indleations of being a breeder of weakling colta, or of being unlucky in any wisy, I take it an an indication that she has not the makings of a muitable brood mare success comes from talding eare, but not too much care

Boys Are Placed Satisfactorily $\mathrm{F}^{\text {Diron, Marm and Darry, }-1 \text { mur }}$ again thank you for your klad ness in inserting pauto oing about torty spplications. A large aumber are from the eastern countles af Ontario, three or four are from Quebec and one from Prince Edward Island. IT any agents in cotunties eaul of Toronte have boys to place, would be plessed to farnish the names sid addresses of applioanta. You have rendered a groat service Iou have rendered a sroal service n bringing homes and chitares intos contact, with one Warier,-Amos
Tovell, Ses. C. A. S., Wellington Co., Tont.

Filty Want the "Live Wire.

EDinon, Farm and Dalry,-I should 4 have written you a long time Ago re your kindaess in adverising our chlldren last Dec, 30 in Ferm and Dairy. That Adrertisement brought us nearly 100 apptications, Whout one half of which were for the boy I mentioned as "a live wire. Bome of the others wanted something fmposatble, others turned out ie be unsatisfactory, but we have som out about all we had for adoption. Just as we wers ready to mend momic sway the measles took our shelter storm and for two months we had walt. We are sending two more soon so our shatter is pretty well stripped of thope available for adoption.
Please speept my thantis for
kindness. Your japer lias proved is be the best advertising medium for claldren we have yet found-R Clildren we have yget found- A. A. ©ntario Co, Out


## The Experiences of a Back-to-the-Lander

IHave seen several enquiries in Farm and Dairy from people with but hutue capital, who think they would like to be livin; on the land. Perhaps it may be of interest if I give a briet outine of my experiences on the land.
In 1913, my wife and I deelded that we would uy farming, and having considered the matter ve came to the conclusion that the best way vould be to take a C. P. R. farm, so, in the spring of 1914 we came to Calgary and decided on the locally. When all was ready, my wifte, with two small bables, my brotherin-law and myselt, came out here. It was a cold, dreary day, or, rather, night, when we arrived, and to add to the dis. comitort it was raining. We got out a mattreas, a small oll stove, and a few provisions. We got
the babies offt to bed as the babies off ts bed ass
(uickly as possitbe, and we ourselves, thoroughly tired out, rested on the matiress ${ }^{\mathrm{c}} \mathrm{a}$ the floor.
Our furniture had been forwarded in advance, and ve expected to get it within a day or two, and to make the best of it in the meantime, Our nelghlors loaned us a small Leating stove, a table and three chairs, and this was all we had ustil our fursiture arrived, which it ild "more or lean" after ceven weeke. 1 shall never forget that seven weeks. It was bitter cold, and several times the mattrees on which we alept was frozen to the floor. We Lad nothing to cook with, except the heating sitove touned us and a small oil stove, suitable only for lieating a bedroom. We had no coal, so had to chop wood four and one-half miles away and rely on our neighbors pasning to carry it back for us, as we had no horses or waggon at the start, nop did we until the fall of our firat year of farming, for we had very little cash. I had to sue a debtor once for some $\$ 600$, and have never got a cent back, although 1 obtained judgment against him In both courts, (I mention this se that you may understand how it was we started out with so
little capital.).

## The Flrst Year, on the Land.

The first year I pald tor 20 acres to be put into crop, and by working for others managed to get wood, fence posts, etc., hauled for me. We cot six cows from the C. P. R., and I mede artangements with a neighbor to help alm get in his hay, and we were to have one-third as pay-


The Hay Crop of an Alberta Farm.
The natent grasea of the prairie are amongat the most nutritious in the
elther milk or beef they are not excelled. in mort in either milk or beef they are not excelled. In mont sootions of the in the world.


Was only fit for green feed, as that year was very dry. We ralsed about 60 chickens, and we had four pigs to kill for winter nse. We ralsed five calves that year, and I had the good fortune to be given a tiny colt. We had no incoiae at all, however, except from cream, butter and egga,

## Work of the Sepond Yoar.

In the apring of 1915 I got two more horses and a plow, and managed to get in 30 acres of oats, 18 of wheat, some green feed and three acres of potatoes. We then continued breaking new land for summer fallow, and we have now about 80 acres broken. I did not have suffletent cash to put ap a proper fenen between the pasture and crops, and we had sreat dificulty trying to keep the cattle out.
It is in such ways as these that a man with too ilttle capital has to suffer. It was the same with our hay stack this fall. I could not get enough

## of roots grew weil

 roots grow weid in this diatriot Our Live Stock.Last spring wae a poor the for ratsing chicke, and out of 200 tneuhator ralised chicks I have unly about 100 leth I believe, however, that the place is ideal for chleken raising, as it is usually so dry under toot.
In regard to dairyling, we have ouly grade cows, but they do well, and the hay costs us nothing but the cutting and atacking, although I do not think the hay wo have is very suitable for cows We sell our cream and the prices range from 3 I to 37 eents a pound of butter fac. Our cows when fresh give about 40 lbs . of milk a day, but we have not been able to feed them as they ought to be fed, and ao am not in a position to judge whut the profts might be under better conditions. We bave had splendid renults from oun kitches (Concludec on page 6.)

## Making. Much of Small Things

## Time and Finergy are Saved by Taking Advantage of the Short Cuts JAS. MeCARRELL, MIDDLESEX CO., ONT.

"EWiry little movement has a meaning all its own," says the old fingle.
Every little movement has its business significance as well. In a United States magasine a writer tells of how a study of little movements enabled a working man to do much more work in a day, to earn greater pay, and to have more leisure hours to spend with his family.
This working man was employed along with hundreds of others in loading pig-iron on to cars. An efficiency expert took the working man in hand. First he studied every movement the working man made and then he began to direct his movements. The expert started in the morning. He showed the man exactly how to stoop to pick up a pig of iron. He directed every movement the man made until he was in an upright position. He then showed him how to turn as he faced the car. He told him when to move forward to the car, and then he directed every little movement as he deposited his burden on the car floor. Not a movement was allowed to be wasted. All day the laboring man worked-under the expert's direction, and at five o'clock in the afternoon he found that instead of loading a thousand blocks, his usual day's work, he had loeded 3,000 blocks, and was not so tired as usual at the end of his work. He was allowed to go home on hour earlier. The efficiency expert by studying every little movement had made that working man of more value to his employers, had put him in a position to command greater wages and to have more leisure time at home with his children.

## Little Movements on the Farm

Has this little incident any lesson for the farmer? We farmers cover a multiplicity of jobs in the course of a day. Few men have greater opportunities to waste little movements, little minutes, and in the long run little days, than have we farmers. I believe that we could save ourselves much labor did we stop work for a while and spend a few hours co-ordinating the work of the farm. Here is an instance taken from a back issue of Farm and Dairy that illustrates what I mean.
On the Tamblyn farm in Durham county they had been accustomed to walk for 40 years around the end of the barn to reach the stable door. In the natural course of events the elder Tamblyn resigned his position as farm manager and his son took his place. I do not know whether young Mr. Tamblyn had studied efficiency and the significance of "every little movement," but at any rate he had the application all right. No mooner wis he in command than he cut a door through the near side of the wall into the stable, which meant that he saved himself and his men 60 feet of walking every time they went to the stable.

$$
\text { Saved } 72 \text { Miles a Year }
$$

It does not sound like much, does it Sixty feet is only 90 steps, and the slowest man ann walk $\mathbf{9 0}$ steps in a few seconds. In the aggregate it means a lot. It means that one man taking threo trips a day one way saves 12 miles in the year. But the man who goes to the stable necessarily comes back again. Three trips a day both ways meant a saving of 34 miles. On a farm the size of Mr . Tamblyn's there would be at least three persons travelling between the house and the stable, and that little door, which probably represented only a couple of hours' work, will save to the farm the time that it yould take one person to walk 72 miles, which is equivalent to the distance travelled in giving a 10 -acre field of corn four cuttivations.

In the nearby county of Prince Edward is another farmer who believes in efficiency. Like all other good dairymen Mr. James Anderson believes that the milk stand sisould be a safe distance from the stables and barnyard. The common ordinary way of taking the milk to the stand is to milk a couple of buckets full, walk out to the stand and empty them, and then back to the stable and fill them again. Mr. Anderson has a different plan. He constructed a track from the milk stand right to the stable door. He then constructed a truck to run on the track. The milk cans are loaded on to the truck, wheeled out to the door, the 30 or more cows are milked, the milk loaded into the cans without any travelling whatever, and then pushed back on the truck to the milk stand. I have not figured out just how much travelling Mr. Anderson saves in the year, but it would be as much as Mr. Tamblyn saves on his door multiplied by several times.

## Efficient Egg Collection

And still another instance taken from a back issue of Farm and Dairy. A few years ago cooperative egg circles were organized in Peterboro county. One of the rules on which members were admitted was that the eggs should be yathered twice a day during the summer months. This looked like a lot of trouble to most of the
circle members. One man solved the problem to his entire satisfaction. When he went to feed the pigs be always remembered to carry a little basket along and collect the eggs at the same time. In coming in from the stable at noon he visited the benhouse on the way. Thus the requirements of the circle vere met without any extra trouble. I know for a positive fact that the twice a day collection of their cggs represented two special trips to the henhouse for many of this man's neighbors.
The planning of the interior arrangement of the dairy stable represents a big problem. The problem of whether the cows shall face each other or not is of vastly more importance than most of us would think. Our declsion means the saving or wasting of many little minutes that aggregate many hours in the course of a year. The arrangement of litter and feed carriers also represents a big saving that is demanded by true efficiency.
Efficiency in modern business, and in modern business I include farming, means the difference between success and failure. The man whom the employer raises in pay is the efficient man. The employer who succeeds in competition with other employers is the one who can direct tis labor most efficiently. We farmers, by studying efficiency, will be enabled to pay higher wages to our men. We will be able to take more lessure hours ourselves and to partake to the full of the pleasures that country life affords when we ate not burdened with overwork. Shall we start now to study "every titte movement "
work is of m ing, before an difference bet season turns

Q
 right. Instead taste and is ne this account.
The cause o been too dry $n$ that 1 investig corn has been fore being ens time of being mentation sets silage we have For this reason field nor to lea 24 hours before of practical far the binder abo cutter so that will not tie up sito.
Sweet silage even when the corn very short afuays to cut it longer than this danger of settin

A Ceme
By Raymond N

「is during the their plans $f$ growing of v agement of the stock, and the bome,
Most improvem


Provision for The cement troush
This form in intince but there are thing cost during the tir that will increase t a convenlence as w a small cement tro ins. deep, that we
For the outstide planks, which, by t placed in position, tom of this wes pla 8 to 1 , whtch was R in the end. This is The inside form w
work is of more importance. The early harrow ing, before and after plowing, may mase all the difference between success and faflure if the season turns out to be a dry one.

## Cause of $S_{\text {weet }}$ Silage <br> By J. H. Grisdale.

QITE a number of farmers have written to the Central Experimental Farm this winter stating that their silage is not coming out right. Instead of being sour, it has a sickly sweet taste and is not relished by the cattle so well on this account.
The cause of this trouble is that the corn has been too dry when put into the silo. In one case that 1 investigated the fact was revealed that the corn has been allowed to lie for over a week before being ensiled. When corn is too dry at the time of being put into the silo, the wrong fermentation sets up. and instead of sour or acid silage we have a sweet silage of inferior quality. For this reason it is best not to stook corn in the field nor to leave it on the ground for more than 24 hours before putting into the silo. As a matter of practical farming, however, it is best to keep the binder about a day ahead of the casilage cutter so that an accident in the harvest field will not tie up the whole operation of filling the silo.
Sweet silage may to some extent be avoided even when the corn is nather dry by cutting the corn very short so that it packs betier. It is best always to cut it one-half inch or less. Corn cut longer than this is too long as it introduces the danger of setting up the wrong fermentation.

## A Cement Trough Costing $\$ 2.20$

By Raymond Norton, Prince Edward Co., Ont.
T is during the winter months that farmers lay
their plans for the season's operations in their plans for the season's operations in the growing of various crops, the care and management of the different herds and flocks of live stock, and the improvements on the farm and
bome.
Most improvements entail considerable expense,


Provision for Summer Comfort: Good Shade and Fresh Water. The cement trough seen to the left was conitructed by Raymiond Norton on
his farm in Prince Edward CO., Ont, at a total cost of \$2.20. Mr. Norton Prince Edward Co., Ont, at a troat cost of oymond Norton on
deseribes its conatruction in the articto edjoining. Mr. Norton
and was made 6 inches amaller than the outside one, thereby making a 8 fnch space. The corners Weis rounded, some old strips of tin were placed in the corners of outer form on a curve, thereby giving a rounded corner on the trough. The 3 fnch apace was filled with concrete made $\&$ to 1 , with sifted gravel. When dry, the forms were re-
moved and the trough plastered inside and out. It also was given a coat of cement wash applied
with a brush.

In making the trough we used four bagn of cement at 50 cents each, and one load of gravel costing 20 cents, or $\$ 2.20$ for a trough that for durability will outlast several wooden ones. <br> \section*{Contagious Abortion; <br> \section*{Contagious Abortion; <br> Its Spread and Control <br> Serility in Cows and With White Scours in Calves}

N$V^{\text {UMEROUS inquirles are made regarding ster- }}$ Each has been largely investigated, but to no case has the study been at all completed. In a poputar circular, data cannot be related nor authorities quoted but merely general statements and concluntons given.
Abortion 1 n eattle is generally, if not always due to contagion. It is not In Itselt a disease, but merely one of numerous symptoms. The phenomenon of abortion is due to an inflamima
lity, abortion and mammitis (garget) of cows, and white scours of calves. They are in somie ways so closely associated that measures irstalled to prevent one may affect the others. tion of the uterus, the fundamental cause of which is believed to be the abortion bacillus. The inflammation of the uterus may prevent conception (sterility), may deatroy the life and cause the expulsion of the fimmature fetus (abortion), or may cause the premature expulsion of the living fetus (premature birth). Pregnaney may continue for the normal period, a dead or living calt be expelled, and the Inflammation of the uterus be recosnized later by the discharges, frequently assoclated with retained afterbirth. Each of these symptoms ordinarily indicates the presence in the uterus of the same infection, Which is designated "contagious" or "Infectious" abortion.

## Where the Bacillus is Found.

The abortion bacillus is found in the uteri of cows which have aborted, or have
standard essentlally all herds of size are involved).
(b) the recognition of the abortion bacillus in the uterus or in the milk (According to this standaru, the disease has been recognized in most


These are Ayther and Daughter: An Object Lesson in Inheritance.
 daughter, with proper mating may be expenting, she fi Oll. Owned by W. E. Dryden. may be expected to do as

## dairies where search has been made),

(c) the agglutination' and complement-fixation tests upon the blood (According to this atandard, the infection exists generally. In single tests we find frequently an animal whose blood will not react, but if we repeat the test we flind ultimately that the blood of so many individuals reacts, whether the animal be a cow, bull, heifer, or a young calf, that it is unsife to assume that a given individual is wholly free).
So far as known, an animal once infected is always infected, though the infection may at times decrease until hardly or not at all recognizable. In many cattle the infection is so mild that it does not cause sterility, abortion, premature birth, retained afterbirth, or other recognizable disease. In adults it is only when the infection is severe in the genital organs that serious dis-
ease is observed.

## Signs of Infection.

According to the most recent researches, the two chlef sources of the infection are the millk fed to the new-born calf and the infection within the genital organs. It has been shown that the abortion bacillus exists in the milk of so many apparently healthy dairy cows that the general contamination of milk with this organism may well be suspected. so far as determified, most calves are born free from infection. If a calf born sound is taken at once from the cow and fed exclusively upon bolled milk, the tuft of hairs at the lower part of the vulva of the heifer calt and that about the opening of the sheath of the bull calf remain separate, clean, and unstained; If left with the dam nad permitted to suck or it fed raw milk, thite sexual hair become matted together and stained a dirty brownish black by the time the calf is thirty to sixty days old. This condition then persists in both sexes throughout life. If grown upon boiled milk and later bred to an animal reared upon raw milk, the sexual
(Concluded on page '6.)
but there are things that can be built at a small cost during the time when work is least urgent that will increase the value of the ferm and prove a convenience as well. Below is a description of a amall cement trough, 8 ft . long, 16 Ins , by 14 ins. deep, that we built,
For the outside form we nsed ordinary 2 in . planks, which, by the use of a spirit level, were placed in position, fastened securely. In the bottom of this wes placed one foot of cement mixed 8 to 1 , which was given one inch fall to an outlet in the end. This is used in cleaning the trough.
The inside form was made from a 14 inch board,
suffered from premature birth, retained afterbirth or other disease. It has been found extensively in the millk of dafry cows, in the internal organs of aborted fetuses, in the lungs of living calven prematurely expelled, and in the Joint cavities of calves born at full term. It appears to be the essential cause of some cases of this disease, though generally associated with other bacill.
The diagnosin of contagious abortion in cattle may be made by:
(a) the occurrence of aterility, abortion, premature birth or inflammation of the uterus, with or without retained afterbirth (Measured by this
gardem, far more than we could handle under our circumstances at the time, as another was added to our family just at harvesting time and added much to the work around the house. We were unfortunate in not getting our crop threshod this year,
especially as our first year, especially as our farst year's crop was
only green feed. We hope for better only green feed. We hope for better
things next year, however, and with ah the hard work and disappointment of two years without any income from crops, I would not go back to offiee life again at a salary of $\$ 1,500$ per
annum. The work is hard and never annum. The work is hard and never
finished, but ft is a free- ontitoor life finished, but it is a free outcoor life with no business worries. No amount of worrying will make it rain or not rain and one la absolutely independent. I would advise anyonis who is
fond of country life and anime fond of country life and animals and Who Cikes the idea, to start right in, but if married the wife should have every consideration, as it is a hard IIfe for her, eipecially at firat. I would not have started in farming When I did but for the fact that my brother-in-law is with mes, and 1 cas thus help in many ways around the house I would not advise anyone to atart out alone. There are so many work properly and help fo hard to the If anyone who reads this lecter would llte finformation on vartou points, I shatt be himppy to do my best to answer ang guestions they may care to ask. I know whem 1 atarted I wound 1 kse to have had 1 marted who had already been throug'a the mill Who had aiready been throug'a the mill
to advise me. For instance, it would have been wiser it insteance, if would for 20 acres to be broken wnd paying, I had purchased a mower and rake, and with my one team taken of all and with my one team taken off all
the hay I could, which selling at $\$ 2.50$ the hay I could, which selling at $\$ 2.50$

## \section*{more than the green feed was worth.} <br> Contagious Abortion; Its Spread and Control <br> <br> continued fr <br> <br> continued fr <br> <br> Spread and Control

 <br> <br> Spread and Control}haira remain cloan
they tiecome solled.
The blood of eat
The bloot of ealves grown upon
raw milh. when tered by and raw mills, when thested by asglutination anit comptementdination, fre quantly reacto, fut so far ae we have observed the thlood of calves fed upon bolled milt doen not react to the test for contagious abortion. In aborting hends we have found that the blood of heifer calves commonly reseta to the abortion tests, that the remetion persists with some variations, be comes intenaified when brect and When prognant the heifera largely abort. The evidonce points wery strangly tawind the infeetion contained in the raw mille fodt to young calves as the chief cause of the hetery abortion rate in heifers. This is made all the more certain by the gom mon practiee of feeding calves npon mixed milit from the entire dairy and still worse in many capee by feedting to calves the milk of cows which have aborted or had retained afterbirth. It is even more dangerous for the dairyman to go to a creamery or cheese factory and procure raw skim. med milk or whey as food tor calves. If any patron of the creamery has a more virulent strain of abortion infeotion than that generally prevailing In the community, each dairyman using raw milk or whey from the estabilishment suposes all his young calves to the most viruleat type of years later reaps dilinesty, in two heffers in finst prognancy. The feed ing of mixed raw milk ar wheed young calves whether from whey to young calves, whether from the hend or from the creamery or cheese the-
tory, is probably the mopt, Important

## Speculators Gophers.

 I also failed to realise the neceeplty of alching the gophers. Although have done much or poison, 1 whould have done much more as they were remark heme thet if thear. Lat me would pati a tax on the government would put a tax on gopherni of force all land holdans to put out a certain amount of poimon, it would hely the more than many west a great dea more than many other thines that Intore hold bu the land Land specuhators hold up the land and it raimen a farmer has poisoned off all Wh than a farmer has poisoned off all on his own land they some trooping in from the speculator's land like the rata atter the Pled Plper of Hamelin, and it is all to do overgood gratin goes, too.

One ofte mare that I had dted this winter, and I shall have to purchase another horse to replace her. Two or even three horses are not enough in these parts, for the new breaking talkes four heavy horses and there is anch a phort time in which to get the land worked up that it needs four horses, even for a farm of only a quar ter section.
In summing up the results of two years' work, I cannot say yet whether we shall make good or not. We were eapecially unfortumate thoumh, and if Fie got a good copp off our 80 acres ahead in a mueh more astistiotory ahead in a much more satishactory mainen. Ond that la I would would like to noi, and that, is I would like to appeal trying tarmers everywhere to canse
to bot the betier of their crigg to get the hatuer of their
neighbors, but rather get together neighbors, but rather get together
and try to help one another. Unity and try to help one another. Unity getting into the pofition of all manumeturers, namely, of putting their own price on the products of taef
semment in the fincreased lomes from The
The seasond important, sauree of in fection indicated by aur researehes if the geoltal oremns of blocotiling and amals. The uteribe cavity of thy prognant cow tropuently contains quarts, and even gailons of the "exu date of contagious abortion," teveming with abortion baefmi. Bifting, during and after abortion, premature birth, or birth at full term, freat quantities of this enuitates, londial with antiortion and other lmalli, flow from the gevitalin dewn the tail, thighs and uditer, ao that a call, whem miekting, talise these onganioms with its mill. This contamination of the extorior of the teato by virulent dlischargers fiof the genitat organs appeturs to be a hifghly important, if not the most dangeroun source of the tiffetion cauning calf moours and pneumonia It the call lives, there fa added to the abortion infection contained in the mill that taken from the murtice of the tent, thass more murely layiss the coundation for sterility, abortion and recained afterbirth whem the haiter hae reached breeding age.

Infection Carried by the Bull. Cows and helfers which have abort
ed apparently have litile if ane, ed apparently have little, if aay, direc deifers for pregriant cows or tact Intrectiof hoy come in eon lact, Indirectly, howevor, they may ponipere groat danger. If the aborte: is served by the herd buth betore her uterus has wholly recoverec, the virufent infection in the cow may by carried by the buit through copuln. tion to other cown and cause dimater In the next proganicy.
Acconting to our researches, poce

Why

## Two

If takes Fertili

## 5 <br> Extarianim

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White Blossom SWweet

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> stouffille
a cow concedves and her uterus bethirty days after concoption within of the pregnancy is seote, the fate uterine cregnancy is 18 sealed. It the normal, the is clean and the sea normal, the pregnancy is assured if infection exists within dangers, but, abortion, exists within the uterus, abortion, premature birth or retained afterbirth may ensue. If the infection is present, accident or bad feeding may increase the probability of disaster.
There is no cure for abortion. When it breaks as a storm in a herd of preguant cows and heifers, it will run its course, and the extent of the dipaster can be known only when prognaney has terminated in the last animal, In many outbreaks the phenomenon of abortion is virtually absent, but in ite phace many animals have retained placenta, sometimes mild, sometimes severe, ruining the cow for one milking period and often leaving her temponarily or permanentIy iterile. In rare cases the Inflammation of the uterus with retained afterbirth assumes a highly virulent type and many cows in a hérd may Carbolle acid.
Carbolle acid, methylene blue, abortion wecines and other alleged used. Many various kindls have been vertised to cure but each to cure sterility and abortion, but each is worthless. If any one of them could cure abortion, the disease Would be on the decresse, but it increases.

## Quarantine Useless.

The quarantine of aborters has al ways falted, ment must contlnue to fail which it merety removes an aaimal and leaves all others stom, abortion, symptome as iterlity, retaing guch birth and other evildy, retained after infection. The remoral of the same feeted animals removal of all infected animais would commonly invoive all the herd. Quarantine is
misleading and misleading and generahy harmful. A quarantined animal is usually a shamefully negleeted animal. QuaranUne does not and cannot affect macerially the prevalence of abortion. A contagious disease cannot be conrolled by taldig one infected cow which has aborted out of a stable of (wenty cows, when the other nineteen alrendy have the mame infection Even were the other nineteen coms ree from the infection, our research: ndicate very strongly that there is me materlal danger of the spread of and that we may practically contact all exposures to the practically ignore the contaminated the infection except and the sexnal milk fed to calves breeding age if thect in animals of wreeding age. If the aborter or cow with retained afterbirth has a decidedly repulsive discharge from the uterus or is otherwise very ill, she should be removed from the dairy as a mensure of common decency, bur not directiy for the purpose of controlling abortion.
The disinfection of the stable and of gutters, so profusely recommended for the control of abortion, is good stabie hyglene, if well done in conit witt not directly stop er limees, but taglous abortion. The or lessen conis carasing phon. The infection which birth is in the lifer of tectined afterin the thati reached uni $\quad$ in it cannot be reached unt by invadin:
 masorted or by invading seached only isms removine boling the organTo be concluded is next week's issue.

Bonafres have been the cause of wach property damsage. If one is necoseary have it well removed from for leaving it make fences, and bethoroughiy extingertathed sure it is thoroughiy extingulathed.


## Get in Close

 an extension head disk harrow and liven up every tree.Orchard tillage pays as big as field tillage-especially where it is carried close. Note the illustrations below-see how the cultivation extends beyond
the team and under the low limbs. Here yon the team and under the low limbs Here you have
the orchard tool of unsurpissed efficiency - the

Extensiga Head


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You'll Find the Advertisers in Farm and dairy advertising rellable goods. They want to know you; also want to know where you saw the Ad. When writing them don't forget to tell thow you saw the Ad. in FARM AND DAIRY,

## It Kills Lice On Cattle, Pigs. Sheep Poultry <br> THIE GRIAT OOAL TAR DIBANFEOTMNT <br>  <br> Zapoleum if rocommmded by Voterlanian  



At Hatching Time
$T$ He enthosiasm of the poentryman Otten geto him into trontile. He wanta to see how his three theeke. He wanta to see how his three weeks
of carreful attention to the lincubator to golugg to reasiti, so the door is open treguently and the himbeh disturbed. The door of the ineubator sheraild never be opened when the ctrickens are expeoted. Xotsture escapes and molsture is more necessary at hatch. ing than at any other time Also, the incubator should be kept dark, oo that the chickens will remain quiet znd not ollimt to the front oof lae mactine, as comes are bound to do if strong light comes through the door.-A. D. K.

## Poultry Suggesticas for April

 $I^{F}$ you intend to use hens for hateching, eet them in a dry place wher you do not thtend io hatchise bronk them to use hens for got them to laytny amein once and$\Delta$ good wiy to broak up a broody
hen 18 to por por to hen is to put her tm a Hight, wiry yoop wish a wiro or shat botiom that you can hang up. This permits a ive circulation of atr, and as 4 blows up through the filf H roduces the
fover which is in fover which is in their blood at this Umat
Thiser is the month to got vat yeur If y you have
hoome keep them cions in the hoone keep them clean, as the need all the sunlight they e
Hens days.
Hens auffer from a damp hon houtse, with litter. Be sure to keep plenty of freah water before the hens. A sreat water berore the hens, A great amount
$\stackrel{\text { eg. }}{\text { Put }}$
Put your thinling cap on and don't let other work crowd out the ohjolks. Let the poultry have a share of the sour milk.
be the open front had the nerve to winter, you had better begin neer the winter, you had better begin now by removing the windows on the south
and use musiln.
fair showing in laying have made a fill showing in laying this winter iil be more fertile than those that Keep a flock.
two, prepare of hens, a good cow or two, prepare for a good ganden complain of the high cost of living. There never will be too many good pouttrymen, but we can strive to be among the best.

## Kansas Ration

CORAATCH Feed: Fed in amall quantities early in the morning as the birds leare the perches; and alse two or three hours befons the birds go to roost a quantity that will give them all that they dosire. Wheat, 300 lbe, ; oorm, 200 lbs.; oats, 100 lbs ,
Dry Mash: Fed in hippers at the rate of one pound of rush for every two pounds of serateh foed. Corn
meal, 60 lbs ; whent middings, or meal, 60 lba ; wheat middings, or wheat bran, 30 lbs, ; linseed oil meal; 10 lhs. ; cut alfalfa, 10 lbs , salt, 1 la Green Feed: At noon the hens are fed as much green. feed, conaisting of sprouted oats, roots and 30 forth, as they will eat up clean in 90 min utes, Fresh water, oyster ahell, grit
and oharooal are always before the
birds.

GASOLINE ENGINES stationary ${ }^{31 / 2}$ to to 50 H.p.


## WINDMILLS

Grain Grinders, Watur Boxee, steel 600LD, SZMPLEY \& MUIR CO,LTD Frirt drive wranoortes som



Single Comb White Leghorn sinto gomb whto Leetorns

 Roceleot Poulter Fom, Niblumin hition

White Wyandottes Handy, tain miad beac to hy
 wintor amd lict mid bloot, prown

 dinam Decired dienver propuld of M. Bridtley it Son, me varill, Ont.


## Par

*om
Fou cannot experiment w roofings, whe


[^0]
## GognormaBaby Sis Baby Chicks

1 a mony y partiy cooliced, parinilly What in meadd for tor the
wint three week to the three weeks to fyye ordinary ohot confuge fitht
feerds. Surpriaing reaults (Whieh wo guarantee or your money baelin) will fol-
low the lilde of

## Pratts. BABY


Pratts White Dlaghe: Rempedic. A guaranted preventive. Remedy- whil
asve 100 ehicir. Aave 100 ehicici
FREE-- Prutt
FAEE-"Poultry Wrinkles," 64
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information, apply to Oity Tleket
 bairs, Genegh PGoien Rer AbeirCANADIAN NORFHERN

IN

Whone cit his annual neports, C. F; ters he has rebelved. They ahow what people thijg of MIr. Whicley's peoial charge, sow teating. From ment:-
"We all knew in a cenernl wity that some of our cous a geaeral way that milk than othert, more that pone of us reall it am quite sure was anything like so targe tifference proven to be. Onr large as ft has 2,150 poumde or Mill buek cow gave 7,150 poumds of milk and our poorest ow gave 4.208 pounds, a difference of the and a half toms, whioh is easdly 130.
"As my eows get exactly the same foed in wiater and the same pasture a summer, any one can see at once the greater limportance of oow testing to raise up the mill production whth. out one cent of Inorease in the cost
Another point is we know now just hat our cows are dolng for as. fore, we only gave them eredit beunilk sold to the factory; our heat foe pald us 380 . whleh is far in bexcess of what we ever expeoted her to meess of "MIKk fed to our calves. manake. fust such as we get from must be bhat we should be as much intersated In the cuality as as much interested had no way of knowing the difly; we had no way of knowing the difference in quality till we tested ench cow separately and found great c'ffer ences,"
"T find it very mach more interest. ing dairying when keeping records, as well as being ahle to know whleh cow to get rid of. I wish there were more In this district keoplng records as it in a good suide when you want to set new stock or young calves."- (Trom Cassburn, Ont.)

Wants More of It.
We have been welghing our mill now tor three years and find it very benefficial. Please send more sheets for dally weights; we would not like to keep cows it we had to stop weighlag the milk. "- (From Hollen, Ont.) "I never seem to miss the time spent welghtng dally, and in any case the benefts more than offset all the time spent:"-(iFrom Hollen, Ont) (ime "I have been weimhing
rear and find that I haw aow for one dows in the herd have such poor to send in the figuros 1 am ashamed that the the figuros. 1 promise you that the unmistaknble eye-opener remil In have recelved this year will rearit in a amuch happler retarn next rear,"-(From Iona, Ont)
IAnd another man nenr stratford, Ont. Who with a herd of 10 colws, in Fuding one farrow and three 2 yearold helfers, has an average of 9,383 pounds of mill, writes:-
"I certainly feel well plestsed with the Idea of wetghing the millk at every mliking. A person takes more Inter est in his dairy work when he knows gust what his cows are dotag every day. I also belleve we sliouid keep an account of the feed they eonsume."

## The Dairyman's Indicators

 By C. L. Martin. T N order to put dalrying upon a - business basis, every farmer needs and the record book. The successful business man has a lociger to guide Hfm in his transactiose. Every dalry. man needs to enter i semarite ate count with each of fids cows so that he may have an indlead or to tell hat it the and of the rear Jist how mim teed each cow has cupenmed much amount of mill produced the the the centage it tests. Too manytre keaning the sorm of the country are keeping the scrub cow, feeding tha militing ther twioe each day, 1 ines each week, 80 thmee sach month and 720 thmes enoh yoar, merely flor
beesis and money in their pockets? The seetiong or records is a business transference between the essential difing, pleasure and drudgery and guess. los, pleasure and drudgery, proal and loss, success and failure.

The amall farmer can keep a vatriety of dve stock sufficient to raofuce something to sell and bring in a blt of ready eash every month in the
year.


It's not a catalogue but a book of information-brim full of valuable, money-saving facts for the farmer.
It tells how to construct fire-proof, weatherproof, wear-proof buildings and other farm improvements of indestructable concrete the most economical of all building materials. It is the same book that has saved time, labor and money for more than 75,000 profressive Canadian farmers. Let it save money for you. Clip the coupon below. Fill in your name ad addrest
and mail to dor and mail to-day.

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## Production and hrift


#### Abstract

$\mathrm{C}^{\mathrm{w}}$ NADA from her abundance can help supply the Empire's needs, heavy burden of directing the Empine's affairs those upon whom the no gain the cosurse before the farmere's of Canada is been laid. Cain or lant year-they must produce abundantly in order to meet the demands that may be made, and I believe this to be anpocially true in regard to live siock, the world's supply of which must be particularly affected in this vast strugele. Stress and strain may yet be in store for us all before this tragic conflict is over, but not one of us doubts the ismue, and Canadiene will do thelr duty in the highent mense of that great word."-HON. MARTIN BURRRIJ., Minither of Agriculture.


## $\mathrm{M}^{0}$

DERN war is made by resources, hy money, by foodstuffs, as ness, it is the by men and by munitions. While war is our first busithat he can, to work doubly hard while our in Canaside to produce all in order that the resources of the country may not only he coneerved, hes, incressed, for the great strugele that lies belore us. for conserved, but is a good motto for War-time." $-S I R$ THOMAS WHITE, Minid of Pinance.

## THE CALL OF EMPIRE COMES AGAIN IN I9I6

TO CANADIAN FARMERS, DAIRYMEN, FRUIT GROWERS, GARDENERS

## WHAT IS NEEDED? these in particular-

wheat, oats, hay,
BEEF, PORE, BACON,
ChEESE, EGGS, BUTTER, POULTRY,

CANNED FRUTTS, PRUTT JAMS, SUGAR, HONEY, WOOL, MLAX FIBRE, brans, pras, prikd vgektables

We must feed ourselves, feed our soldiers, and help feed the Allies. The need is greater in 1916 than it was in 1915 . The difficulties are greater, the task is heavier, the need is more urgent, the call to patriotism is louder-therefore be thrifty and produce to the limit.
 THE GOVERNMENT OF CANADA
THE DEPARTMENT OF AGRICULTURE
the department of finance

## HORTICULTURE

How to Grow Raspberries By F. L Cables, Fruit inspector.

RASPBerrings are better planted in the fall on well preparean and Which hane grown a plotet of pobly on land some such grown a polot of por titoes or planeting is aliso moetistactocy, but owing to the rush at this season, it to newnity more difisicult to get it done properly, ${ }^{\text {Raspberries are botter pinated in the }}$ row syocem than in hulis. The rowe bowevar, must be kept to a suitable Width, not mare than 10 inches, an the great buik and the best qualiky of hrut litue more on the outaido canea, and little more would be prodneed from wide rows than from narrow ones.
The original sets ahould be plantod about seven to nine inches in the row, cultivation can be carries apart, so that cuitivation can be carried on with two culdivated durine the should be well picking time and the summer, up to in ease of dry weather, picking thme tivation after piekther. A iftile culfall, wil akso be beneficiap until early affer the growth has cencelial. In the fall, ground ehould be plowed ceased, the the canes, leaving a light dead formord in the centre. In the spring furrow cultiveted again and puiled bacls to rard the centre, away from the with a reversible disk harrow.
To get the best results, raspberrie ahould be mulched yearly with namure This is done by pliting manare at th ends of the rows during the wint time, and whth the aid of a onethome cart, distributing the manure in the ow in the spring, spreading th amongst the canes as carefully as possible. In this way what is left of this manure in the fall is covered by the furrow that is plowed up to the canes and thus year after year it brommes well incorporated in the soll and proluces good results, not only furniah ing fertilizer, but assisting very ma terially in holding modsture and avolding the disastrows results that oceur during the hot, dry season of caspberry harvesting.
Canes should ing.
ing teh growing seas out back dur canes in the condition in I leave my grow, ontll spring time in which they then cut back and the They are taken out in and the dead canc should be taken to awoid damar from diserse and tniects avoid damage worst insects wo have had to conten with during the last few years is the snowy tree cricket that years is the egga in the srowing cane and kills them back from the tip. The only remedy for this is to watch closely and eut out the affected canes.
Pruning Trees for Production M. B. Davis, B.s.A., Experimental Farm, Ottawa.
W ${ }^{\text {E }}$ prune primarily to obtain betpruning and in so far as our that one 4ne, jest so for is our pruplop succema We do not or at leat not, prune to obtain or at least ahould sightly tree. A tree posendnt or alone does not possessing beanty pockets, 00 that look at it to our may, we prune only to obtain beter may, we prune only to obtain better Thi.
The different types of trees that we grow may be roughly divided into form, another is the the pyramidal the third is a combination of the tiv. The flrst or pyramidal form, conslets of a central londer, will branehes radiniting off from it sice oo large and too high tree for sonditions. It shnts aut too muct sunlight, thus making the produotton


well-pruned tree in the orchard
Jas. E. Johnson, of Norfoik Co. of clean, well-colored fruit a more diffleutt task than it should be. Where inseot pests and fungous disenses naturally thrive, the first factor in directing the shape of the tree is ranitation, and the central leader type cannot be called a sanitary type of tree. The open centre tree, while possessing admirable quallities, does not possess the strength of the central leader type, so that a combination of the two is more desirable. The combination type consists in allowing the central leader to grow for the first year until five or six good branches, arranged in a whorl and well spaced, can be selected to form the tramework of the tree.
Having decided on the form our tree shall take, we are now ready to follow the pruning year by year. The first year, or the year the tree is set out, it will be necessary to head back all branches in order to give the roots an opportunity to get a hold and to make our trees stocky instead of long and willowy. During the first two years of a tree's growth, prune for wood. This adds to the importance of this first cutting back. To enable of to form a good, strong, well-balanced head, we must have abundant wood growth, and pruning during the first four or five years whould be directed cowards that end.
If the tree is to be the modifed leader type, it is pruned so that the central branch will maintain the lead and five other branches at most will be selected, as previously stated. All other branches are removed, and the five selected branches are cut back a considerable distance, cutting the weaker ones the least. As these main branches will probably have some laterals on them, it is advisable to remove these at thls time.

## Which Is Your Way?

Twere laaning over the tion is related in the Wersa Farmer of Spokane, Washington, as follows
Yes, sir, that colt is for sale, but he betongs to my son in the field yonder. You'll have to bargain with him," said the farmer, motioning to the boy. "He'll be here presently and you can talk to him."
"That boy!" ejaculated the stranger "Yes, George is seventeen, and a amarter boy never was raised on any farm-if I do say it. You ought to bear him in debate. He can hold his end with the best of 'em. He raised that colt and the sale money goes into the bank in his name. He's saving for a course in an agricultural college: then I'll step down and out and he'll run the old farm. Here, George, this man is looking at your two-year-old." The bargain was soon concluded but not before the buyer had learned hat the seventeen-year-old boy was a heen judge of horse flesh and knew the worth of his colt.
Two men were leaning over the masture bars
"Yes, sir, them steers are as goon as ever was ralsed in this town. That fussed with 'em ealls 'em his, and has calves, Hey? ober since they were ference when it that makes no dif were fed from comes to seling. They the cash meen my mow, and 1 reckon are insmateful Boys talking of outting and. He keeps him longer than he and 1 can't keep might ger the oul fiwenty-one. He highe take the old farm and let me have a rest, but he will not listen to see. You don't cant be helped, as I atder the steer worth what 1 conuse in feedins' worth, but there's no use in feeding 'em any longer. They're Wher
Which boy made a successful; conented farmer, and why?

## Rural Leadership Course at O.A.C.

The Ontario Agricultural College has made arrangements for its second annual Summer School for Roral Leadership. It is the purpose of this school to discuss the country home shool and church, and their relationship to the community life. Along with these subjects will be given a few outline lectures on strictly agricul. cural topies, with the Idea of bring ing all rural leaders, sach as clergy closely in touch and so forth, more towards the Farther inforablems of the farmer applying to Dr applying to Dr. G. C. Creelman, O. A.
College, Guelph.


Lakeview Rattler, the New Canadian Champion 7.Day Cow, hishoroduction of brotucing bitier cow of any ant or breed mink in aeven days make her the estublithed a new lony-dintance reeore for breed in Cant ta. In December lant whe
 Bronte, Ont.

## Made in Canada



## Dust Costs Money

Dusty roads are expensive, for the presence of dust means that costly road material is belng east away to the four winds of heaven. Sooner or later it must be replaced at great expense.

The taxpayer foots these bills. Ordinary waterbound macadam is not sufficlently bonded to resist modern traffic. A stronger blader is needed. That is why many Canadian towns are turn ing to Tarvia-a coal tar pre paration of great adhesire power, which is used to cement the stone together.
Under heavy loads a tarviated road is somewhat elastic-not brittle-and traffic wears it smoother. The Tarvia also has the effect of making the road surtace waterproot and pre venting raveling by rain tor rents.
The addaltion of Tarvia to the macadam costs so little that it is more than balanced by

## TWite nearat office for tre ellutrout

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Sole Manu unaeturean for canad

## Farm Improvement Number <br> wIt Be out <br> MAY 4th

Remember, only half of our pages are pight hand ones. Make aure of
ADV. DEPT., FARM AND DAIRY - PETERBORO, Ontario

> way
Quebe
tres
> It is tree.

## 1866

## Climbing the Dairy Ladder :

## As Told by the Man Who Climbed

"WBAT one man can do, ap- We had kept our mill at home nome other can. Who was the days to make a litile butter for our proverb? Whoever he homely old selves, and the cream we got did look owes him a debt of gratitade. It has ting our eyes open s istle. were get eneouraged many who find the rungr I told my wife I belleved we might In the Indiler of suocess in farming fust as well feep some ged we might rather far apart and hard to reach. to be worrying along with theote poor We never hear a story of succees but ones. By this time we thene poor that old jingle comes into our mind and urges us on. But we fort need to hear of what the other fellow has done. That is why Farm and Dairy is akways telling Our Folks about the success of other tolks.
Not long ago E L. Vincent, a United States journalist and farmer, hitched up alongside a fellow-passenger on an express train and wae told In a few Words the atory of that man's life. It was an inapiring story. The conditions overcome were the same as nine out of ten farmers are face to face with today. So good was the story that Mr. Vincent retells it in Kiruball's Dairy Farmer. We retell it again for the benefit of Our Folks.
Here it fs: fix cows, all the same kind all those we began with and we lrept aome ree oris which helped wtill mote to open our eyes. We were more to open near the foot of the ladder as folk ever get.
Well, we began ripht, as I look a it now, by fixing up the barn and ge ting ready for the better and btrge herd. We moved a Metle old bar it had stood probably of the lot wher It had atood probably for 50 yearn raised it up, and added to tha leneth It was then 26 by 50 feet in sire. Ou ambitions were to keep about 10 cown and we soon had them, but in thoroughbreds yet. But we had mad. a step In adrance. Instead of talin. ap with the leavings of the nelghhori we bought the very best cows we coutd paying what was then consldered
"I was Hke a good many men when 1 was in the twenties, 1 hid worked hard and I thoucht it would be a mart thing to go down to Washing ton and hold a government position tor a few years, So 1 got a chance to be appointed to a place in the interior department and went. I soon married and started a family. But the conflnement began to tell on me. I had always been used to the free air of the country and I came near dying before I waked up to the fact that it was no place for me down
there, So 1 did a queer thine I gipthere, So 1 did a queer thing, I sap-
pose. I resigned and took my way pose. I resigned and took my way
back to the old northland. They say back to the old northland. They say a man rarely does tiat. The pay is
so sure with the government and the so sure with the government and the
Work not heavy that most men stick Work not heavy that most men stick
to it to the end of their days. I never did a botter thing, however, than When I packed up and went away from Waahington, in fact, 1 am sure I would have died soon if I had not guit when 1 did.
"We bought' a litile place of 65 acres nine milles from the railroad and began to 'farm it.' At first we had only three 'cows, and they were fuat the same kind of atock the rest of the folks around there had-very ordifary atook, and surely not such as would be Itisely to cut any great ferire in the world's dalry hlstory. Nobody then had any better oows than webodid. If I had wanted to buy thorougtibred took I would not have known where to took tor ti, any more than the man In the mood. No one had any such stook in ah the country round about. and that was lens then os rearn are Myl what a change these fes yeari have broaght!"
aty triend looked out of the car winpretty big price. Then, too, we begat to be more caraful as to the linal of bull we used. We had taken up wil anything in the shape of a bult, bu gow we wanted nomething better. Thit gave us a lwtle bet
stock, that was all.

## A Serious Sethack.

"But-when we got the barn straigh ened up, we bet out to get still bette stock. When I began to ask myan where I would go to flad that stock I found that it was not such an ean matter, I had quite a hunt, but found what I wanted and bourht That was in the form of a promlsin looking reifistered bull calf. We pald a good price for him an things wem then, $\$ 10$. Before long we learned that he was not a breeder. We neyar sot a calf from him?
"They talk about disoouragtns things in dalrying. I know all sbout them; but I know, too, that fallures are a sood many times juat what a man needs to mulre him hustle was so with me. I wanted a gool bull then the worst I ever did in all my life, and I was not satiafled till we had one.

Whille we were trying to get our bearlnes ngatn, I had a chance to buy a nile ittle helfer calt of rood, thor oughbred stock, and 1 went away ove In the east part of the town, nome fivis miles, to get It. I thought ahe had the earmarks of a good cow and it proved that thts was so. She was, and is day, the bent oow we ever owned her calves are good, too, thewonly tault I have to-find ts thist to many of
dow a minute and seamed to be leatiting them are bulla.
his mind rie hack sexuned to be letting he took up the fluread of his story again.

## A Good Btart at Labt.

4I kept looking tor a ball and at lant we got one. Thle whas a Guers sey. We had tried some ether breotls and they ald not guke meem to come "Bomehow 1 did not Tlice the way up to our expectation. That is not ve were getting slong, I think now It was the reporta we sot from the areamery. Our test was ternibly low.
. men might do betrer whh them than
MBINING BARLEY AND OATS FOR HIGHEST YIELDS PER AGRE, Results ascuree by Pref. C. A. Zavite In his Experimental Work.


## GEO.KEITH 8 SONS

124 KING ST. E TORONTO
they would whit the Guensseys, But Then we were on the way to see our dreams realized. We added about 160 acres to the farm, put more length on the blg barn, making it wider and longer and put a cement floor under the whole, besides putting up a sllo. Now we have about 30 head of stock, not all registered, but some toll breds and a number of good grades. Last
season our teat at the creamery was season our test at the creamery was
the best of anybod $y^{\prime} s$ that patronized the best of anybody's that patronized the institution.
"But we are not satisfied yet. There are better things than any we have reached, and we are going after them. We want some better cows. We want a sire to head the herd that is all wool and a yard wide, and we are goligg to have him."
I have visited this man's farm and know that all he told me that day is true. And he was -overly modest about the advance the has made since he came on the farm. The story was told in no boasting way, but in the most quiet, everyday sort of manner. and yet, with the light of a great pur pose and a big aspiration in his eye That is one of the beot things about doing rood thinge in detrying abe well doing good things in dairying, as well makes a man want to do sthl greater makes

## Auto Running Legislation

 That ane tho resurrement -3 forth under the new regulations? Where
could a person quatify for running the mme, if s ersecinal study is reguired? Is thero any diatinction betweon the guakflations for cily and private country
Subjeet to Section Thirteen of the Motor Vehicles Aet, which provides that no person under the age of 18 shall drive a tuotor vehiele, the owner of a motor vehicle may operato his own car, providing, of course, that the registration fee is paid and the aumber properly exposed, ete. The r.gulitions provide for no distinetions in respect of your enquiries between the punning of automobiles and tween the pu
auto trucks.
It is further provided that no person ahail for hire, pay or gain, drive a motor vebicle on a highway unless the is licerised to do so, and no person shall employ anyone to so drive a motor vehicle who is not so licensed. This lieense may be obtained from the Department of the Provincin! Secretary at Toronto on filing a certificate in that office signed by two members of the Ontario Motor League, appointed for that purpose, rasiding in the munieipality in which the applicant for the license resides, and nlso by the Chief Constable for the municipality. stating that they have examined the applicant and that he is a fit and proper perion to be so liconsed, having regard to his charsoter, physical fitress, ability to drive and knowledge of the rules of the road.
If there are not two such appointed members of the Ontario Motor teague residing in the manieipality in which vou live a certificate may be signed by two appointed menibers in the municipality nearest to that in which you reside. If you are in doubt as to whom these persons are a letter inquiring to the Provineial Secretary, Toronto, will bring you the necesaary information. No other examination or special study is required.
There are no distinctions between the regulations for city and country use. There are, of course, special regulations as to the passing of atreet cars in cities, and the speed rates for country roads and eity streets. You, had better apply to the Provincial Sueretary for a copy of the Act governing these matters.

## Good-by, Guess Work

TUHE New Sharples "Suction-Feed" is the only cream separator which eliminates guess work from cream production. All other separators have to be turned at exactly the speed indicated on the crank or they will lose from 7 to 13 pounds of butterfat per cow per year. The Purdue Experiment Station and other scientific investigators have proven these figures (see Bulletin No. 116, Vol. 13.)

This "guess" speed is used by 19 operators out of 20 , because it is impossible to turn the crank at exactly the right speed.-It is much easier to turn it slower-and, whenever you do, you lose cream. Even a speed indicator will help but very little, as you won't and can't watch it every minute.

So we say to you dairymen: Quit guessing about your separator speed and your separator profits. Use

## THE NEW SHARPLES SUCTION-FEED

Separator and know that you get all the cream all the time.

Whether you turn faster or slower, the bowl of the Suction-Feed drinks in just the right quantity of milk. The feature is entirely automatic; if you are tired, you turn slower (which is easier) and, if in a hurry, you turn faster and finish so much sooner. No matter how you turn, the New Sharples always skims clean.
The Sharplescream is always of even thiokness, whether you turn fast or slow. The Supply can is but knee high so you can fill it without any back brzaking effort. The three-piece Sharples bowl is lighter and simpler than any other-no discs to wesh.
All these moneysaving and troublepreventing features are described in a handsome catalogue; "Velvel" for Dairy" men. Send for a copy, now, while you think of it. Address Dept. 77.


## The Sharples, Separator Co.

## Toronto <br> Canada m

FARM AND DAIRY

and rumal home

intimately affects so many of them, will be put Government regulation has any place in human affairs, it should be in couneotion with institutions by which men seek to provide for the miembers of their families, in case they should be taken away from them.
Many of our older farmers, men who have done so much in the opening up and deyelopment of Canads, are now suffering from the effects of the unbusinessilike methods of some of our Traternal Insunance societies. Only recently a case came to our notice of a farmer who had taken out a thousand dollars of insurance some twenty-Ave years ago in one of these societles. His payments for some years amounted to sdxteen dollars per annum. By the time he had reached 65 yeurs of age, however, it wes becoming apparent that all was not well with the company to which the that entrusted so much of his savings. The rates were inereased until they amounted to thirty-six dollars a year. He le now an ald man, and the payment of such an anmual amount is no tonger ponsible, with the restilt that he has had to comply with a provislon by which he can draw out What he has paid m , so thist instead of a Hhousand dollars, which he confidently, expected for so many years to lenve to his dependents, he will only have some three or four hundred.
Another case of which we have been informed is that of a man and wiffe, who anch insured in a certain company in the other's favor. They owned thetr little home, and fett that so tong as they were sapared to each other they would be able, by trugal living, to make ends meet. They reallized, however, that as soon as the home way broken up by the death of one, it would not be so easy for the other to get along. By taking out the insurance they felt they had provided for the decllning years of the one of them which was spared the longest. For ovar 30 years they kept their premiums patd up, then the inevitable raise in the rates was made, and they found it absolutely impossfble to oentinue to pay them. The otd man has now gone to his reward, and hif aget wife has been left dependent on the charity of the neighborhood. Incidents such as these make the actions of some of our fraternsl fisurance socleties look tike flagrant breaches of confdence,
To prevent the repetition of sech occurrences, which amount to ilttle less than a tragedy in the lives of those affected, the whille bustness of life Insarance stiould be placed upon the soundest possithle basis. Recent experience has ahown that this dmportant work cannot be loft altogether in the hands of the oftictates of insurance compantes. The atrictest Government regulations ihould be enforced, and it should be made imposilible tor any company to attract members by offering low rates of insurance, when on the evtđence of our best insurance experts such rates cannot be maintatned. Years later, when such members become old, and their earning powers have decreased, they would not than have to face the payment of increased premiums or be forced to drop their insurance. Nothing is aettled untll it is settled right, and the agitation for the putting of all insurance business on an actuary basis will keep on until that result is accomplinhed.

Have you otdered your farm and garden seeds yet? Get in before the rush.

Avold consuipation in cows at calving time, Plenty of roots and elimination of heating grains from the ration will keep the cow in excellent condition.

The increased tarift on apples, it is said, will increase the price of Ontario's apples. Juat how a protected home market can incronse the prioe of a ferm product of which thiere ts is targe, osportable surplus, passes our comprehenaton.

## Educational Features of Sale

EVari y auetion sale of pure bred datry stook is a valuable dairy demonstration. As the animnls are led out one by one, as their merite and breeding are announced and arubjected to the criticiem of the ringside, and as the bidaers contend with one another for the possession of the antmate, the movice in broeding has a aplendid opportunity to become acquainted with the techuicalities of the business. By being ubservant he has an opportunity for training his eye and beeponing a better Jedge. By reterring to his catalogue as the animals are sold, he has an opportunity to become familiar with the records, the families and the outstanding individuuls of the breed In watching the bidding and dberving the pricee that are put on the animals, he becomes familiar with the values of auch animals as estimated by those best qualifed to judge, and finally by mixing with the breeders, he 4s sure to shaorb some of the enthristam that adds so much zest to the work of the dairyman and breeder.
At this time of the year, when sales of pure bred stock are being held every week, the oppartunity is brought to hundreds of our readers to profit thereby. Such an oppoltunity should not be wasted, eapecially by the younger farmers. To the observant one, an auction sate of good frtock is in reality a short course in which emough instruction is condensed inte sone afternson's work to materially assist any young tarmer in becoming more famillar with the best that live stock breeding has to offer.

## Progressive Manitoba

THIRE is an old provert which saye that "a new broom sweeps clean," and which can be very properly applled to Manttotitis new Legishature. After the rather slovenly housekeeping of the late Government, there was considerable cleaning up to be done, but the new Tlovernment, hacked by the earnest desire of the peopte of the Prownce For a large amount of progressive legislation, went to work with a wilh, with the reoult that Manitoba can now be satd to have again restored hor house to ordet. The recent session, lasting from January 6 to March 10, was characterized by the carrying out of a recurd program of progressive legislation. The Orain Growers' Gutde, Winnipeg, sums the worls of the menston up as follows:
"The women were entranchised. The Macdonald Temperanes Act was passed and endorsed at the referendum on Match 18. Direct legisiation was incorporatel into the nitatutos. Compulsory Education Act became law ahd the bilingual clauses were expunged from the School Act. The Caldwell amiendments were repealed. Much lator leglatation was enacted, including a new Woramen's Compensation Aet, new regula thons governing employment in shops find factories and a Fair Wage Act, Authority was stren to the dovernment to aell cattle on easy terms to needy sottlers, and a Mother's Pension Act recelved the royal assent."
The passing of soch an amount of progrensive legistation fi one session shows what mpld strides ean be mede when the pollttent atmosphare is cleared, and instend of throwing dust in the electors' eyes, the legislators get down to the businese of enacting the will of the people. Men of all party amtiattons now agree that ouly year ago Manitoba was one of the least progresative Provinces. $\mathcal{M}$ one bound, however, aho has taken a foremost place among the Provinces in this regari.

Production and thrift-these are the factors that have bought and pald for thousands of Canadian farm homies. There is a catl for even grvater affort in this year of war, and Canadian farmers will do their part.

$\underbrace{\sqrt{\mid}}_{\text {United Farm }}$

0NE of the Inge the
Ine Farmers
nited, have h was organized, of the Company and 12. The fin sented showed t months of Febry considerably in the same months $\{30,152$ in Februn $\$ 30,152$ in Februa
March to $\$ 55,00$ March to yeur. Owing later in opening the sales fa Janu not as large as However, the tot
three months of $\$ 107,143$, as again the same period increase for
319,033 . In thin pointed out that pointed out mare nearly are mare new a
than they were a as the feed shorta a great demand comparatively ligt Another report with great astinfa which cannet be n which cannak be n
ent, was to the ments had been co to the Grain Grow of Wimnipeg, of a aupples here in sibly twice that alone. This coope Dast and the Wer Wth the developm The drectors ree special oommitter ildent John Priteha Beck, South Cayuga of Farm and Dairy appointed by the last annual meetin to devise methods its usefulnees. This in a report which tically in full. The gaged a besinem consulation with
ager and ascountan gest methods of of Which will ensure fice records belng I fice reoords hereafter thet will In use in the most enable the director times practically ev company's buaftrees the sales in each information lins bee tolore, but hereafter able in a more conv if was decided h maters nffeoting tl company will be de approval of the bo but that the detalls out of these pollifes
the management. tiltee of the compar President Pritehard W. C. Gurney of Parl Barris, managing dire
and Seeretary J J, M Replies recelved by mittee from some 85 the province, showsad were well pleased they had received ir equad to a few llnea. ng stren attention by

## In Union There js Strength

United Farmers' Company Show pany should affiliate with the Cane Great Gains

0ND of the most successrul mee Inge the directors of the United Varmere Cooperative Company, Lamited, have held siace the company was organived, was held in the office of cbe Company in Toronto, April 11 nnd 12. The financlal statements presented showed that the salee for the months of Febrtbary and March were considerably in exoess of the sales for the same months last year, amounting $830,152 \mathrm{in}$ Fer Fobruary, as againat 830,152 in February of hasi year, and in March to 855,007, as as adnst $\$ 23,196$ ost year. Owing to the acason being later in opening thise year than last, the sales in January of this yeart were not as large as those of a year ngo. However, the total sales for the firsit ${ }_{s 107,143 \text {, as as againat toar amounted to }}$ siot,143, as againat total sales during Lue same period last year of 588,110 , 519,03s. In thin the three monthin of polinted out that connection it was are mere nearly the males this year than they were a year an in charaoter as the foed shortage last year ereatet a great demand for feed, while tod yeer the demand for foed hins been comparatively light.
Another report that was recaived with great eatisfaction, the details of which cannet be made publle at prescin, was to the effeet that arrange ments had been completed for the sale of Winnipeg, of a eersin Grain Company aupples here in Ontario line of farm mopount to at least $\$ 60,000$ that will sibly twice that amount this posalone. This cooperationt this year Dast and the West, promises to the one of the sreas fenturomises to be wth the development of conineoted Wth the development of this move-
ment.
The
The drectors recelved the report of a special committee composed of PreBeck, South Cayurs, Beck, South Cayugn, and H. B. Cowan, of Farm and Dairy, which had been appointed by the directors after the last annual meeting of the company to devine methods of facilitating the work of the company and extending its usefulness. This committee brought in a report which was adopted practically in full. The committee had engaged a businevs expert, who after consultation with the bustndes manager and ascountant was thte to sult gost mechodn of office manngement which will ensure the company's of fice records being kept in a manner bereafter thet wilt compare with thoge in use in the most successful businems bouses of the country and which will enable the directors to know at al trmes practically every detall of the company's brastreas an it relates to the sales In each denartiment The information has been aveilable There tolore, but hereafter it will be hereAble in a more conventent form avall It was decided hereafter matters affecting the noltey of ali company will he determinnd of the excoutive committee, suhiect by the apmoval of the boarit of to the but that the detalls of of direotors, out of these policiles of the carrying the management. The erne left with thittee of the company executive comPrevident the company will consigt of W. C. Griney of Parte, Vice-President Warrie managine Paris; B. C, Drury of Barrie, managing director: Anson Groh and Secretary J. J. Morrifon.
Replies recelved by the apeelal committee from some 85 locnis throushiout he province, shownd that the locnis were weil picased with the sarvice they had received from the central. Some complaints were reefistered in reard to a few lines. These are being given attentlon by the exemtiveThe drectors deolded that the com
tian Council of Agrioulture and tha be kept in close touch with the worl of the farmens' organizations in work arn Cansia.
As it was felt that a comprehensive policy should be adopted deflning more clearly the relationahip of the United Farmens' Company with the United Farmers of Ontario and outlining a means of keeping the looals in oloser touch with the work being done by the povinoial organizations and of increas. hrourghent inerest in the movement armponet the prorince, a oommittee composed of Messus. H. B. Cowan and .J. Morrison was appointed to confer Farm like committee from the United portuens of Ontario and prepare a report for subminsion nt the next meetng of the board of directors.
stock was allotted to 25 farmers' orshowing the praotical indiduals, thits taken in the moyempant by farmat being farmers' or manlmatlons by farmers and tario. The diroctors thnoughout OnPreaident John Pritelenent included dent W, C, Garney, Meard, Vice-PresiSeuth W. C. Gurney, Mesars. 8. A. Beck Tucker Cayaga: E. C. Drury, B. C Tuoker, Harold: L. H. Schnurr, Shal Mow Lake; Geo. Carlaw, Warkworth: Manager Anson Groh and Secretary J.
Morrison. Morrison.
United Farmers of Ontactors of the United Farmers of Ontario is to be diay, April 20 and 21 Thursday and Frilating to that organizatlon witters recussed at length.

## Farmers to Build Terminal Elevator

ADEAL has just been closed for a watarfront site at Port Arthur, Ont, on which the Baslcatchewill build a Cooperative Elevator Company first unit will be of elevator, The capacity. Work will be commencel early thls summer, and the terminal will be completed in thme for terminal erop. The C.N.R. and the C.P.R alrendy connect with the site C.P.R. The 1816 building the site.
company provides for the erection the about 30 interior elevators erection of province, thla boing the largein the ber for which the compeny ean numon getiling mateflal and erews with which to carry on the works With program falls very far short of meet ing the requests for Intecior elevator by the cooperating farmers, but inder prevniling labor and other conditions, should that the company feels it sould undertake.

## The Testing of Dairy Products

$\mathrm{T}^{\mathrm{t}} \mathrm{t}$ ly emphasized fact is distinet contly issued by the Da builetia reStorase issued by the Dairy and Oold torage Branch of the Federal De title of of Agrloulture under the itle of "The Testing of MIIC, Cream the Dairy By-produots by means of the Babooek Test." and written by J. F, Singleton, Chief Inspector of Dalry Products. Without belng profuse Mr. Singleton tells in plain proaage about all that is to be told of the practical applleation of the test, the eare that should be tatren test, component parts of the apparatas the messurements advisable andus, the methods that shomid be amploy the number of exiet and employed. A tlons lend additional worth to flustra. able bulletin the namborth to a not45 of the Dairy namber of which is fes and that can be Cold Storage Serappliontion can be fiad by post-free Branch to the Publications Brapeh, Deptertment of Agrieulture,
Ottawn.

## Clean Skimming Easy Turning Easy Washing Small Repair Cost Best CreamQuality World's Highest Awards

## DE LAVAL

## Stands On Its Record

FOR nearly forty years the De Laval Cream Separator has led in
the cream separator field long start and has always held its lead. It has in 1878. It had a step of cream separator development and popularity ays led in every avals are in use today than all other makes combity, and more De It has always been recomined 1 olles combined.
arator. That's the main reason why $98 \%$ of the world' ise it to the exclusion of all others. $98 \%$ of the world's creameries
Because of its cleaner skimming, ease of operation and wonderful
urability, every De Laval user is a "booster" and is known in a neighborhood the more poster" and the better its work The better cuality of cream more popular it becomes. De Laval produced crsam and butter have scored higy the fact that annual contest of the National Buttermalcers' Ased highest at every four years and in every great representative contion for twentythirty years, Last 'ut not least, the De Laval was awarded the Grand Prize at the San Francisco Exposition in 1915 as at every other grand
exposition since its invention. exposition since its invention.
The creamerymen's choice can't be and mechanical experts who act as judgen at the great expositions can be depended upon to recognize reat merit, and the fided that the De Laval is the choice of the majority of all cream separator of the must mean a good deal to yout buyers purchase of a cream separator can you afford to ignore these considderatlons?
Let thi Do Laval atart saring croeme for



DE LAVAL DAIRY SUPPLY CO., Ltd.
MONTREAL

## PETERBORO

WINNIPEG VANCOUVER 0,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

## sow Oup Established 1856 Our handsome Spring Oatalogue now ready. A eopy will 간. SIMMERS  Toronto, Ont. Planis I

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## OUR FARM HOMES Hen

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

## God's Country and the Woman (Continued from last week.)

IVNam in his life. She stood only the deep lustre and the wonder ender and unatralo, her head all and brown aureole, her face filled with purity, a beauty, and a strength that made him look at her speechlese, waiting for the sound of her volee, In
her look there was neither boldness nor susplcion, Her eyes were dear deep pools of velvety blue that defied
him to lie to her. He felt that under him to lie to her. He felt that under those eyes he could have knelt down
upon the sand and emptied his soul of its secrets for their inspection "It is not very strange that I should
be here," she sald at last. "I have always liyed here. It is my home." Philip. "It is the last thing in the world that one would belleve-but I do: I believe it. Something-1 don't
know what-told me that you belonged know what-told me that you belonged
to this world as you stood there beside to this world as you stood there beside
the rock. But I don't understand. A thousand miles from a elty-and you! It's unreal. It's almost like the dreams I've been treeming during the past eighteen months, and the vislons I've seen during that long, maddening
nlght up on tho coast, when for fixe months we didn', see a giow of the sun. Eut-you u
From her he glanced swifluy over
the rocks of the coulee, as if expecting to see some sign of the home she had spoken of, or at least of some stood his questioning look

The qually aly she sald.
hhm more than her words. There wartled him more than her words. There was she watched their effect upon him. She swept out a gleaming white hfm. She swept out a gleaming white arm, taking in the wide, autumi-tinted taking in the w
spaces about them.
"I am alone," she repeated, sta keeplog her eyes on his face. "Brtirefy afone. That is why you startied me-why I was afraid. This is my hiding place, and I thoughtHe saw that she had spoken word that she would have recalled. She hesftated. Her lips trembled. In that moment of sumpense a fitcle srey er mine dislodged a stone from the row ridge above them, and at the sound of it as it strack behind her the afri gave a start, and a gutok flash of ithe old fear leaped for an matant into ber face. And now Philip beheld somewildered in which he had beee toe be eerve before. Her first terrer had been so acute that he had falled to see what remained after her tright had paseed. But it was elfear to fimm trow, and the look that came inta his-own face told
discovery.
The beauty of her thee, her ayes, her
hair-the wonder of her presence six
hmatred milles from of pilination-had ful blue deep lustre and the wonderthat those eyes, expuisite loveliness, were haunted by something which she was strugeling to thght back th questing, hunted look that burned there steadily, and of which he was not the cause, A deep-seated grief, a terror far back, shone through the forced calmness with which she whs speaking to him. He knew that she was inghting with herself, that the nervously twitching fingers at her
breast told more than her lips had confessed. He stepped nearer to her and held out a hand, and when he spoke his voice was vibrant with the
thing that made men respect him and women have faith in hlm.

Tell me-what you started to say, he entreated quietly. "This is your hiding-place, and you thought-What?
I think that I can guess, You thought that I was some one else, whom you have reason to tear,
She did not answer. It was as if Ahe had not completely measured him. Fier eyes told him thet. They were not looking at him, but into him. And they were softiy besatiful as wood violets. He found himself looking steadily into them-close, so close that he could have reached out and touched her. Stowly there came over them \& fimay softnens. And then, marveliloualy, he naw the tears gathering, dew might gather over the sweet petals of a flower. And sth for a moment she did not spenk. There name a little quiver at her throat, and she eanght herself with a quick, soft. breath.
"Yes, I thought you were some bne "But why should I tell soe sald then But why should a tell yon? You are please to call clvilization what you plosirnet 5 menause of that soould distrust you because of that. So why
why should I tell you?
In an instaat Phinp was at her side.
In his rough, stormebeates hend he <br> \section*{The Message of Easter <br> \section*{The Message of Easter <br> <br> T <br> <br> T <br> <br> T <br> <br> Tit is the resurrection so delightful as the spirit of Springtime,it is the resurrection so delightful as the spirit of Springtime, the glad new morning when Nature, after her long'sleep, awakes the glad new morning when Nature, after her long'sleep, awakes and decks herself with her most entrancing robes and decks herself with her most entrancing robes <br> <br> "Awake, thou that sleepest!" The slumbering seeds which have <br> <br> "Awake, thou that sleepest!" The slumbering seeds which have been held in Winter's grip are not the only things that hear this been held in Winter's grip are not the only things that hear this mighty resurrection call. We humans hear it, feel its inspiration. It mighty resurrection call. We humans hear it, feel its inspiration. It very being. There is a quickening of our vitality, a resurrection of very being. There is a quickening of our vitality, a resurrection of very being. There is a quickening of our vitality, a resurrection of
our ideals, a moral re-birth. Our hopes, our prospects, are renewed, very being. There is a quickening of our vitality, a resurrection of
our ideals, a moral re-birth. Our hopes, our prospects, are renewed, re-animated. We feel the warming presence of new life, new cheer, of re-animated. We feel the warming presence of new life, new cheer, of higher and nobler impulses. As Spring swakens the, new cheer, of higher and nobler impulses. As Spring swakens the, new cheer, of promise, new hopes, new expectations, new joys, new growth, new promise, new hopes, new expectations, new joys, new growth, new beauty in Nature, so Easter comes to us with the joyful message of a
new and fuiler life.-Orison Swett Marden.} beauty in Nature, so Easter comes to us with the joyful message of a
new and fuiler life.-Orison Swett Marden.}

## Yes:

"A man-one of God's men?" she

He bowed his head.
Slowly, so slowly that she soarcely seem.
bim.
"And when you had done thls you would the willing to go away, to promise never to see me again, to ask no rewand? You would swear that?
Her hand touched his arm. Her breath came tense and fast as she watted for hlm to answer,
"if you wished it, yes," he said
"I almost belleve," he heard, as it the were speaking the words to her seif. She turned to hip again, and something of falth, of hope transfigared her face.
cieturs to your fire and your prunes," she sald quiokly, and the sunhight of a smble passed over her Hps. "Then, halt an hour from now come up the coulee to the turn in the rocks. You will find me there She tent quicidy and ploked up the httle bag and the brush from the sand. Without looking at h/m again she sped ewistly tayond the els reek, and Philip's last Fision of her was the radiant glary of her hatr as it rippled oloudlike behind her in the sunlight.

## OHAPTER THRESE

That he had actually passed through the experience of the last few minutes,
that ft was a roallky and sot oome
caught the white fingers that trembled at her breast. And there was somecompletely unatrald.
will thy?" he asked. "Listert; and up into this country from down there -the world they call Civillization. came up with every ideal and every dream I ever had broken and crushed. I found new ideals and new dreams. I am golng badk with thera. But they can never be broken as the others were-because-now-I have found
something that will make them live And that something is you! Don' let my words startle you. 1 mean them over our heads. If I leave you nowif 1 never see you again-you will have filled this wonderful work for me, And if I could do something to why, IV thank God for having sent the ashore to cook a mess of prunes." He released her hand, and stepped "That is why you should tell me." he finished.

Fwift change had come into her yes and face. She was breathing of her throat. A flush of color hat mounted into her oheeks. Her lips stars parted, her eyes shone-like
$\qquad$
great deal for me? she questioned breathlesel
deal-and dike-a man?"'
beautiful phantasm of the red and gol world whioh again lay quiet and life less about him, Phillp conld noarcel convince himself as he made his w back to the canoe and the fire discovery of thls girl, burled six. dred miles in a wilderaens thix wh almost a terra incognita to the wh man, was sumficient to bewilder hin And now, as he filoked the buraln embers from uuder the pails, looked at bis watch to time hlims did he begis to roalize that be l not sensed a hundredth past of miracle of it.
Now that he was alons, quest through his mind, and evary peli his body throbted with strange citement. Not for an Instant did doubt what she for an inetant di the forests about halm, the lal the blue sldea above, were her hot And yet, struggling vainly for a tion of the myatery, he told him in the next breath that this eould be posslble. Her volee had revei nothing of the wilderneas-excep its sweetness. Not a breals had un ed the purity of her sjeech, She risen before him like the gues
some wonderful tingdom, and a forest giri. And in hem, and no a ieen the soul of one whe face hy upon the world as the world upon the world as the world oulalde of its foreat walli Her hair, her eyes was her homit he the Fithescmeness of her, the flower Ithesomeness of her beawtiful bo and something more, sometuwng feet in her progence, told wheh he feel in her presence, told him that was her home wonderworid about was her home, But why-how He seated himself on a rook. ing the open wateh in hls hand one thing he was sure. She was pressed by a strange fear. not the fear of being alone, of loct, of some happta-chance peril she might fancy was threatening It was a deeper, bleger thing that. And she had confessed to -not wholly, but enough to make know-that this fear was a man. felt at this thought a little thri
joy, of undefinable exultation. sprang from the rook and went to the shore of the lake, soanning surface with eager, challenging In these moments he forgot that zation was waiting for him , the elghteen months he had been gling between ife and death naked and berbanous end earth. All at obee, in the mpaes Pew minutes, hls world had shry untll it held but two thlags for 1 年 -the autumn-tinted foreste, and it girl. Beyond these he thourh nothing except the minutes that franging like thirty welehts As the hand of hls wateh off the twenty-ffth of the prescrliod thirty he turned his steps fn rection of the pool. (He halt expeetie rection of the pool. He hal expected
that she would be there when he that she would bs there when ho oame over the ridge of rock. thut sho coalee, returned. He looked 41 then the coulee, and then at the firm whit prints of her feet were ther narrow hmprints of a heeled shoe consclously he amlled, for no resson then that eneh surprife reason than that ench surprise A forent sirl ss he had lmown woutd have worn mocoasins. - th hundred milles from elvilimation.

As he was about to leap across the errow neek of the pool he notioed White object almont buried in the dry and, and pioked it up. It was handkerchief: and this, too, was
surprise. He had not partioulady surprise. He had not partieulayly no
thoed her dress, except that if wne tloed her dress, except that it whe
boft and ollagine the. The hendiken soft and ellagine thae. The handike chlef he looked at more elonely,
wiss fine linen whith a porder of lass and so soft that he could bave bldden
it in the palm of hls hand. Fromi it
(Oontineed oe page 13.)

The Up
Travel Tho An East
this glind nk wo forgot hours that our Sa the resurrection:
smann the hour momann: the hour
must think more must think more
vacrifice, so that eolemn, living Ide
ives.
the
he Alaskar great privilege
Stringer on boar pretentious herois pretentious herois
always be an ins some of the facts
sivays
Resemany of the Esquimaux of the
He left for thi land the night he land the night he
years he labored w for yetars he and the people looked cause he could $n$ ould not shoot ice-honse. The fir bullt for him, in it In order to get wa Once, Just as th espeot, he was esteem, a large p good mouthful, but was to swallow it ras a ery of "Whal
ooking, he threw he could.
One time he and lost for two montl his: "Were you eating your boots? simple answer,
leather is not so vel just how to tosat It For a long time strained to send sor as missionarles to e north. This tribe treacherons; the
dangers. He put t1 fore his people and teers. Ne otte Ter
great sinking of the nsked himself if th of all his years' worl "Will no one got" amse, saying: "We
g3, but we wanted So at thls Raster tion of our Savlour ascrifice, may eaoh that we are all rea
our l eart of heart choses for -us to do. soever my Lord th polnt."-1. H. N.

Floor Waxi I Hive followed

 mpring, and as I do $n$ Ont.
first a pplicati ith waxing floors, given in the article
lssue of March 16 . two ounces of
p

## The Upward Look

Travel Thoughts-No. 28 An Easter Thought.
" ${ }^{6}$ THY servants are ready to do whatsoever my lord the king shall appoint."-2 Sam. 15:

At this glad Easter hour I often think we forget the sad, agonized liours that our Saviour suffered before the resurrection: the hourg in Gethsemann: the hours on the cross, We must think more of that great selfeolemn, living lifeal and reallity in ore oolemn, ives.
onn inves.
On the
great privilege of shlp we had the great privilege of having Bishop
Surluger on board Stringer on board. The brave, unpretentious heroiam of that man will always be an Inspiration. Here are some of the facts of his life among the Esquimaux of the Far North
He left for that almor
He left for that almor unknown land the night he was ordalned. For years he labored whicut one convert; for yetars he and hls wife were in hourly peril of thelr lives; for years the people looked fown upon him, because he could not set into one of their canoes withiout fattling out, he could not shoot, he coluld not build an lee-hoase. The first one that was built for him, In it he built a blg fire In order to get warm, with the result that it soon broke down around him.
Once, Just as the figuiminu were beginning to look upon him with respect, he was given, as a mark of esteem, a large pince of rtw, high, seal meat. Feeling he must, he took e good mouthful, but knew not how he was to swallow it. Just then there was a ery of "Whale." When all were looking, he threw it as far away as he could.
One time he and hls assistant were lost for two months, with provisions for two days, Someone asked about this: "Were you really reduced to simple answer, "but eating bootleather is not so very bad if you know just how to toast It to get the greasy rmell out of ft."
For a long time he had felt constralned to send some of hls converts an missionarles to a tribe still farther north. This tribe was ertel and treacherous: the trip fraught with
dangers. He put the whole case hadangers, He put the whole case be-
fore hia people and asked for volunfore hia people and asked for volun-
teers. No one responded, With (eers, No one responded. With a great sinking of the heart, the bishop nsked himself if this was the result of all his years " work. Again he asked: "Will no one gor" Then an old man arose, saying: "We are all ready to g3, but we wanted you to choose." So at this Easter, in commemoration of our Saviour's supreme lifeaacrifice, may each of us say, gladly, that we are all raady to do what in our leart of hearts we know Hi choseq for us to do. May each say: 'I, the servant, am roady to do whatsoever my Lord the King shall ap-

## Floor Waxing Query

Idecomtion and woune furt furiahine nchemes which have been publithed recently in Farm, and Dairy, and was funch pleaned with the hints fiven in the erested fin the treatment of floors in pring, and as 1 do not underntand the method of waxing floor:, Foutd like to know how to apply $\mathrm{ft}-4 \mathrm{~A}$. Reader ${ }^{2} \mathrm{Hal}$. The first application in connection with waxing floors, called the filler, is given in the article mentioned in our Issue of March 16, memely, a misture potash in a potash in a bucket of bolling water. on wome advise trying this mixture on some material lying around betore applying it to the floor. If you de-
sire a-light floos, the filler should be quite Hght in color.
Purchase a standard make of floor waxing, apply it with a soft eloth pollish vigorously. of course the and polishing the floor gets, the more will be the floor gets, the better wili be the appearance. If you are anxious to do this work in the leas possible time, a method which has bonrd, two feet long, us is, to take il coard, two feet long, wind it with sof with thl apply the wax to the floor with thls padded board. In thls way one can cover a space two feet wide foor space is if a large amount of floor space is to be waxed, a wreighted brush made especially for polishing waxed floors can be purchased.

## COOK'S CORNER

## Easter Dishes <br> Maple Custard.

Bmilh, four eggs, add four cups minh, a dash of salt and one Vet custard cupe sud set for Put Into hot water to bake. The water should ot boll after baking has begun Banana Cream Sauce.
Press one banans through a sleve, of sugar and one a lemon, half a cup Beat all together eas well beaten. Beat all together until 11 ght and set This cold place until ready for use. This sauce may take the place of whipped cream for aay Jelly deserts,

Peanut Cookies.
One cup chopped peantts, two tablespoons mitt, one-quarter teaspoon salt, two teaspoons baking powder, flour and roll.

Apple Snow Jelly.
Dissolve a package of jelly powder with a pint of boiling water. When Dartly cold, turn into tall, slender Elasses, filling about threequarters full. When set, pile apple snow on top. Apple Snow-White of one egs. one grated apple, sone half eup segar Beat until Ilght and feathery sugar

Potato Chickens.
Six potatoes, one teaspoon salt, three tablespoons butter, pepper, onethird cup hot milk. Boll potatoes and drain and mash, season, add the hot milk gradually, beat until light and creamy. Plle on a hot dish, form In the shape of Hitle chickens, using

## Here is the Phonograph You've BeenWaiting For



## Don't Hesitate a Minute

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## When You Write---Mention Farm and Dairy

tiny pieces of beet for the eyes and ally recogaised, also have been mat toothpleks for the beaks. Place in a ters of record for many yeens. In toothpleks for the beaks. Place in a ters of record for many yeans. In
nest of parsley.

## Eggs on Toast.

Toast as many slices of bread as destred. Molsten crusts in hot water or milk, butter well. Place on each slice a nicely poached egg with a dot of butter and dash of pepper on each egg. In poaching eggs, have plenty of holling water, actually boiling when eggs are dropped in, but not after-
wards A IIttle salt and vinegar may wards. A ittle sait and vinegar may each egg separately in a small, deep satreepan.

## The Crow

NONE of our native birds so much concernh the average farmer of the Eastern provinces as the common cow. Many of our present eriticisms of this bird, as its pulling sprouting corn, feeding on ripening ears, damaging fruits of various kinds. destroying pouttry and wild birds, and disseminating diseases of live stock, were common complaints in the days of the early colonists. Many of the virtues of the crow, now quite gener-
recent times, however, scientific study of these probletus, including the ex amination of the atomachs of hemmonth of crows seoured in every of conditier year and under a variety of conditiors, has enabled us to ren der a much fairer verdlot then wai The Insect pood
The insect food of the crow, which comprises about a firth of Its yearly sustenance, does much to atone for fts
misdemeanors. Grasmhoppers, misdemeanors, Grasnhoppers, May beetles and their larvae (white grubs), catenpllars, weevils and wireworme stand out prominently, In 1,103 stomachs examined these highly injuri-
ous forms comprised over 80 per cent ous forms comprised over 80 per cent of the insect food.
In the other animal food of the croy are several ftems of the utmost economic importance. Spiders ars Lantu at consiaerable numbers in May and June, but the yearly total is a little over one per cent. of the food. In early spring crawfhah are eagerly sought, and other aquatic food as fish and molluses lend variety to
crow's bill of fare the year round. crow's bll of fare the year round. in
the consumption of toads, salamanders. the consumption of toads, salamanders,
frogs, and some snakes, which, to frogs, and some suakes, which, to
gether, compose a Ifttle over two per gether, compose a ifttle aver two per
cent of the yearly food, the crow is doubtlens doing harm. Small rodents occurred in the stomachs collected nearly every month, but it is often difficult to determine whether small mammals found in blerds' etomachs were taken alive or found dead.
from its carrion-eating habits crow has been unfairly criticized as a disseminator of live-stock diseases. While this may be to some extent just, the fact that there are many other important oarriers whfeh lle largely beyond oar control, showe that we must seek final rellef only through the striotest methods of sanifation.
The nest-robbing habit of the crow long a serious critheism, is verified t,v stomach analysus. simty of the 1,108 crows examined hed feed on wild birds or thelr aggs, and the eggs of domestic fowls were found slightly more frequently. The crow's hablt of rummenging about marbage plles may explain much of this latter material
Of the vegetalble food, corn, which is eaten every month, is the most imeaten every month, is the most imof thu yearly diet. Much of thls, how. ever, mast ie consldered waste. Over 60 per cent. is consumed from the first 60 per cent. is consumed from the first
of Noverober to the end of March. Darring the periods when corn is Daring the periods when corn is
sproirting aths when in the "roasting sprouring ant when in the "roastins ear stage, the crow is eating this grain at a rate considerably less thas the yearly average, and the months of smallest consumption are July and Aagust, Wheat and oats suffer ifimp lar dumage at times, eapecially in the
Western States, where these grains Western Stat
predoniante.

## predoniante.

Various loinds of cultivated ${ }^{4}$ fruita also are eaten, and local damage to such crops as apples, melons, peas, beans, penperts and simonds is occs sionally reported.
Damage to the aggs of poultry thay be reduced to a minimum by careful housing of laying hens, and the farm er can proteot his sprouting grain to a large extent by the ense of tar-conted seed. While legal protemtion is needed for so wary an inditition as needed for so wary an it seems where loed hee crow, it seeans well, where local conditions have not aggravated some particular shortoomings of the bird, to allow it to continue the good services rendered to man In the deatruction of noxious insects.

[^1]rose a taint rook violet. rock violet, be had crusher his hands. H hirt, and w coulee.
A hundred strewm turned strip of forest water's edge. bank, and stoo ${ }_{8}$ girt.

She had hea was waiting for weloome on he her wonderfal h ed in a heavy about her head. of lace at her of it at her $W$
beautiful, more queen of a kling queen of a king fore him now. He saw that in
"Yoo didnt anked, and for a tuit of laughten
 der them," he s He eaught th words, and her ture. A short front of the tent front of the teat
dioth, on iwhich he had not looke "I am elad," friendly humor. apoiled your app up my mind that inner with me. or doughnuts. made fruit calke, that I made my me?"
They sat down ween them, and to turn h/m a cu that was already Her lovely head he stared with the ton, ghe leaned back him. The words lips remained uns wave the blood flu "Forgive me it don't understand," weeks past I ha how I would act peöple again. Per derstand. But en of a white woman of a white woma glimpse of her troe to live on-will m
time. Can't time.
littie?"
"A great dent," quickly that she again. "Back then belleve you. I am You are honest. I of ourselves until rou the the calke? She thad given ht as hin fist, and he "o "Delioionst" , he Think of it-not! annook, bannook 1 only stx ounces of ast stx months! at the whote of mean ${ }^{p / \prime}$
Seriously she beg mainder of the ealk "ft woold be ont omphnemts you oc sald tont with iolenter, a plolde "Ploties!" he in

## God's Country and the Woman

(Continued from page 16.)
rose a taint, sweet sceat of the wild oake and piokles-please! I've rock violet. He knew that it was dreamed of pickies up-please! I've rock violet, because more than once 'ein come to me at night it big as he had crushed the bibsaoms, between mountains, and one night at big as his hands. He thurst the bit of of chasing a a pleife with dreamed fribric in the breast of his flannel hours, and when at last ith lego foi shirt, and walked swifuly up the with the thing it hat tarned into up
coulee.
A hundred yards above him the stream turned abruptly, and here a strip of forest meadow srew to the water's edge. He sprang up the low bank, and stood face to face with the

She had heard his approach, and was waiting for him, a ifttle smile of welooms on her llips. She had completed her tollet. She had braided ber wonderfal hatr, and it was gathered in a heavy, shimmering coronet about her head. There was a flutter of lace at her throat, and Iittle fluffs of it at her wrists. She was more beaulual, more thau ever like the queen of a kingdom as she stood be tore him now. and she was alone. He saw that in his first swift glance. You didn't eat the prumes? she anked, and for the first time tie sew a tuit of daughter in her eyes.
No-I-I kicked the fire from under them," he sakd
He alaght the algniffeance of hor words, and her sudden sidewise gesture. A short distanee from them was a small tent, and on the grass in front of the tent was spreat a white oloth, on whleh was a meal stuch as he had not looked upon for two years,

I am glad," she said, and again her eyes met his with their glow of frlcndly humor forey might have epoiled your appetite, and 1 have made up my mind that i want you to have dinner with me, I can't offer you pie or doughnuts. But I have a homemade fruit cake, and a pot of fom that I made myself. Will you join me?"
They

Ther sat down, with the feast beweea tacm, and the girl leaned over that was already of tea from a pot Her lovely head was near him, and he stared with hungry adoration and he stared with hungry adoration at white contour of her cheoks and seel Whe leaned back suddenly, and neek, she leaned back suddemiy, and caught
him. The words that were on her lips remained unspoken. The laughter went from ber eyes. Ia a hot wave the blood flushed his orn face. "Forgive me if I do anything you weeks past I have been wondering how I would act when I met white peôple again. Perhaps you can't understand. But elghteen months up there-elghteen months whthout sound of a white woman's volce, withouts a glimpse of her twoe, with only dreams to live on-will make me queer for a time. Can't you uhderstand-a ittio? ${ }^{\prime \prime}$
great deal," she replied so quickly that she put him at ease again. "Back there I couldn't guite belleve you. I am feginning to now. You are honest. But lef us not talk of ourselves until after dinner. Do rou like the cake?
She thad given him a plece as large as hin fist, and he bit off the end of it. "Delicious!" he cried instantly. "Think of it-nothing fout bannock, tannoek, bannoelr for two years, and only six ounces of that a day for the last slx months! Do you care it I eat the

## mean ?

Seriously she began cutting the remalader of the calke into quarters. "It would be one of the biggest oompliments you could pay me," she sald. "Tat won't you have some boiled tongue with it, a Httle canned lubster, a plokde-
"Plotdes!" he interrupted. "Just go. " iceberg. Please let me have just pickles and calke!
Behind the lightness of his words she saw the truth-the craving of
famine. it from her. He tefused to hide it from her. He refused the third huge piece of cake, but she reached over and placed it in his hand. She Insisted that he eat the last pleoe, and the last plokle in the bottle she Whapened.
When he finished, she said:
"Wow-1 know.
"What?"
"That you have spoken the truth that you have come from a long time In the North, and that I need not fear what I did fear.
And that fear? Tell me- in
She angwered calmly, and in her yes and the lines of ther tace oame most hidden from him untll how almost hidded from him untif now.
minutes you were away those thirty minutes you were away," ahe said. tand I realized what folly it was in meek to tell you as much as I have, Back there, for just one insane moment, 1 thought that you might help me In a situation which is as terrible as any you may have faced in your months of Arctic night. But it is imposssble. All that I can asit of you. now-all that 1 can demand of you to prove that you are the man you and you were-is that you leave-me, and never whisper a word into ane other ear of our meeting. WIII you promise that?"
"To promise that-would be lying," he said slowiy, and his hand unclenched and hay Hatlessly on his knee. ant why I should leave you-then 1 will
"Then-you demand a reason?" To demand a reason would beHe hesitated, and the added: Unehivalrous.
"Yes-anare than that," the replled mottly. He bowed his head, and for 4 moment she saw the tinge of gray in his blond halr, the droop of his clean, strong shoulders, the something of hopelessnass in his gesture. A new llight flashed into her own-face. She raised a hand sa it to renels out to him , and dropped it as heach out to him, and dropped it as be looked
(Continued next week.)
Well Pleased With Butter Mixer Mrs. J. H. Sherk, Grey Co, Ont I SAW by our last Farm and Darry that you are asking the women readers to write giving their experiences in butter making. I thougat I would write and tell you how know butter, not because I think 1 subject out if no one writes on the subject, none of us will learn any thing about it. It may be that some one will benefit by my way of makin. butter. I do not make a great dea out I try to make it as good as I know how. We have by no means a dairy arm, but we have a few cows and what experiences. I have had, I am Last summer I
Last summer I had difficulty in getting cream to come to butter and had to churn about three hours every time. I tried everything and asked evervone whom I thought might know anything about my difficulty, but did husband visited a butter. At last my husband visited a butter factory and in asking about butter making, he
was told about the starter or yeast

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Cotton Seed Meal Linseed Meal and Flax Seed
h. fraleich, Boz 3. Foras, Oab

## RIDER AGENTS WANTED 

## Spring Style Changes Not Extreme


that is used, so brought some of it
with him, also the recipe for making with him, also the recipe for making
it. That put an end to three hours of churning.
In gathering my cream I never put
the warm cream with the the warm cream with the cold, always allowing it to cool first. When I hive enough gathered for a churning,
bring up "my starter from the cellar bring up my starter from the cellar
and put in one pint of it to every $20^{\circ}$ and put in one pint of it to every $10{ }^{\circ}$
pounds of butter. (I know about how much butter a certain amount of cream will make). Then I heat the cream to 64 degrees and keep it at It is then allowed to cool to hours, It is then allowed to cool to 80 de-
grees and stand 94 hours. grees and stand $2 t$ hours. I chur a next morniag and usually find th-
cream at 60 to 62 degrees. If it is too coot 1 warm the churn and put the cream into it, then put in the butter cream into it, then put in the butter The butter usually comes in about 25 minutes. I just let it gather in gr nules abobt the size of neis,
run off the buttermilk then add fresh water from the well and wash the butter in the chur. 1 The mixer is then prepared to receive the aster, and the worked well. In summer I let the hut ter stand till next morning, then butagain and put in prints, but in winter I finish it right up as in cold weather
the butter becomes very harl if anter the butter hecomes very hard if alhave a Dutter mixer. We did not buy an expensive one, ours costing only $\$ 8.50$. It saves hard work and malies better butter.
storekeeper as I do not make country storekeeper as I do not make enoryrh to send away. I get one cent a pound
more for it on account of having a butter mixcer and they tell me they can-well afford to give me more as

## Light on Scriptural Proplecy

The Regathering of Israel
 ymici vixion ixi im nix prophecies indicating this? In the eleventh chapter of Romans
Paul explains (verse 8) that because of their kln in rejecting Christ a4 their promised Measlah, God has siven them the spirit of shumber. If the
25 th verse he states that their blind 25 th verse he siates that thelr blind-
neas will continue untll the fuiness of ness will continue until the fulness of
the Gentiles be come in. This means that the Centite, or sorcilled Chrlatlan nations, are, undergoing a period of
testing fust as the Jews were tested testing just as the Jews were tested.
When this perlod of time ceases, sind it is belleved by many that this war is one of the sisns Chiriat gave of tas near elose (Matt. 24, 7 and 8), God will once more turn back to His chosep people, the Jews. Then, according to propheey, they will repent over their sin in their crucifixion of their Mes. slah (Zeoh, 12, 10 to 14), a fountain shall be ppened for their ain und
uncleanness (Zech. 13, 1 and 2). ther uncleanness (Zech. 13, 1 and 2), there
shall be great foy among them (Isalah shall be great foy among them (Isaiah
$95,8: 10)$, they wiff be gathered to $25,8.101$, they witt be gathered to
gether from among the nations, from the four corners of the earth, and broueht into their own land, Note Inalah 11, 11-12; 27, 13; 30, 18 at ; 31 $15-20 ; 33,13-24 ; 35,1.9 ; 40,1-11 ; 49$, $8-26 ; 51,923$, Jer. 3, 14-18; 30, 3-22 $32,36-44 ; 38,1-25$. Ezeklel 16, 60.63 ;
$20,40-44 ; 36,8-15$, Joel $3,1-21$. Amos 20, 40-44; 36, 8-15, Joel 3, 1-21, Anom
$9,9-15$, Micah 5, 2-9. Zeeh. 1, 14-21 $9,9-15, ~ M i c a h ~ 5, ~ 2-9 . ~ Z e o h . ~ 1, ~ 14-21 . ~$ Mat, $3,4-6$. They will then be greatly
exalted among the nations, Zech. 8 , $20-23 ; 2,8-13 ;$ Isaiah $49,22-23$. Later they will go forth to the nationis as preachers of the slory of Jetovah,
Isaiah 66, 18-19; Math. 24, 14. A clear Isaiah 66, 18-19: Math. 24, 14. A clear
undenstanding of the many great undenstanding of the many great
prophectes relating to the Jews helps us wonderfully to harmonise many passages of the Bible that otherwise

# The Mak 

Butter and Ch department, to

matrors relinting mattors retiting
and to
ang and to
sion.

Eastern Dairy : $T^{\text {HE following }}$ ranked in ranked in
anccesafully aminations at t1 Sehool, Kingston, dipiomas atter pr by operating a e
fictory satirfactor Honors: Fred Wm, Wright, Sout Murray, Komptvip South Indian: ${ }^{\text {Second }}$ Ruckspring: J, W. Kilson: Jas. King Kingaton; W. C. Pass List: Tordiff, Brooklin rldye; C. H. Lee,

Maritime Dairy Sc $T$ HE Farmers' a sociation of
which reeentI lon, went on rec Martime inter
chool. The follow school. The followi
pussed: puseed:
"Whereas the fi Brunswick feel the vanced mathodis in fa
ins. ing:
eation along these lis to that of the Weste ewen Nown Aceetia: "And whereas the
Maritime Provinces, maritime
finefleient to maintal atitutions up to the if the Wentern Provi Farmers' and Dalryn in convention asle ou give us auch assistan us to cooperate with time Provinces in esta time Dairy Behool in Trin Bcetia main eloping those instit atandard second to no

A New Cold Sto F kitation retriger 4. millien butter, m regetables in a cool praotice the principles Tracice the principlis
the operationis of the cold storage warehooise mome particulars the me by Butletin 44 of the Oold Storage of Food I bulletin is prepared by Dairy and Cold gtoraze and Joseph Burgees, C and processes that are handlines, Btoring, ship servatton of suoh peri an buticer, cheese, veg mill, poultry and apple asty temperatare is giv on the care of furs and A cardinal prinelple that when storage ls to the cooling process about too quieldy in th not extrume sugh with im millk which is cooled

## The Makers' Corner

Butter and Choese Makers aro in. vited to aend contributions to this department, to ask questions on maurors relating to cheose making, slon.

Eastern Dairy School Graduates $T^{\text {He following tis a list of studentis }}$ ranked in order of merit who ancoesafully passed their ex aminattons at the Bastern Dairy School, Kingston, and will be granted diblomaa atter proving their ability by operating a creamery or cheese factory satidractorily this senson:
Honors: Fred Hudnon, Kingston; Wm. Wright, South Mountaln; Fred Murray, Kemptrille; D. MeDougatl, South Indlani; J. W. Bolton, Orumond: second Clinas: A. W. Morrison, Roelloconfing: J. W. Tordir, Mrookilin: ${ }^{\text {R. }}$ R. B. Moncior, Jhigper; E. E . Wilison,
 Kingaton; W. C. Mcliwen,
Brook:
E. W. W. Standish, Clarence.
Pass Llat: E. Pattemore, Frant vilie: A. J. Sullivan, Plantagenet; $\mathbf{W}$. E Tordift, Brookinin; H. Btinson, Bur rildse; C. H. Lee, Lindiay; w. ©. Daridion, Glaegow' stiation.

Maritime Dairy School Requested
$T$ HE Farmers' and Dairymen's Asnociation of New Brunswichs, Wheh recently met in conven-
Marltime inter-provinelal dairy school. The following resolution was paseed:

Wherenas the farmers of New Brunswift feel the need of more advanced mathools in farming and dintry
ins. ing
"And wherens the faellities for edweation along these lines are not equal to that of the Western Prowinces, or wen Nows Acetis:
And whereas the finamees of the Maritime Provinces, Individually, are Ineffelont to maintain edereationst inatitutions un to the standard of those in the Weatern Provinces.
Therefore, resolved: That the Parmery' and Dalrymen's Assochation In convention ente our Legtatature to cive lis auch asaistance as will anable is to cooperate with the other Mariime Provinces in establishing a Marlime Dairy Behool in eonfunction with the Nova Scatia Agricultaral College at Truro, and maintaining and developing those fnstitutions up to a standard second to none ${ }^{\text {" }}$

## A New Cold Storage Bulletin

F TERY Derson who makes use of a - kitchen retrigerator, or places vegotahles in a cool cellar, fruit, or praotion the prineiplos cellar, puts into the operations of the which underlie oold storage warehene most up-to-date cold storage warehotse and follows in by Bulletin ts the methods deseribed by Bulletin 44 of the Dairy and Cold
Stomse Branch, Ottem Storase Branch, Ottawa, entitled "The Cold storage of Food Produets," The bullecy in in prepared by J. A. Ruditfek, Datry and Cold Storage Commissioner, and Joseph Burgees, Cold Storage Inopector, and outtines all the methods and processes that are pursued in the handines, storing, shifpptng, and preservation of such pertshable articles as huticr, cheese, vegetables, ergs, maill, poultry and apples. The neces. aty temperatnre is given in each instanoe, information also belng given on tho care of furs and woollens. A cardimal principle neems to b that when stornce tis to be Fosoriced to the cooling process cannot be set about too quicldy in the maforlty of cace, atthough with moderation and not extrume suddemness. For Instamee, milk which is cooled Immediately to
kept for severat henrs longer than if grees and then cooied to 70 or 80 dekeeps best at a low tamperarure, Butter reeds care in method. Chesene, but certain described conditions, under tept at a moderate tampers, can be and partloulariy anples, better it promptly cooled keep much ing, and can be preserved longer in oold storage. Feps intended forer in torage should be mathered and for cold is soon sa posalione athed and treated But, in a brief norlow, it being laid. to lay adequate stress upon it easy portance of this buffecin, which the importance of this bullecin, which can be Publleations Branch, Ottawion to the

## Progressive Saskatchewan

F. M. Logan, B.S.A, Anert. Dairy Com. missioner of saskatechewan
T lase been my privilioge to stucty Arat hand the systams followed in a several of the other provincess and the work here dutiog assoelated with months, i have during the past nine tion when 1 say thear of contradiction when 1 say that Saskatechewan wisdom, foresigh ins. Thuousht the wisdom, foresight and untring energy of her Dairy Commisestoner, Sankat chewan has had in opemetion during the part three yaars, methods whict old Ontario hopes to adopt some time in the chiatant foutres. The growth of the industry during thees grath of convinoling proof that these methods are both praotical and effeotive.
The grading of eroam whitoh is ried out mone unlverually in this prownee than in arg octher in $C$. Ant has had the effeet of impmoring the gream to a remarkable degroz The possibility of obtainlug deve cents nove per pound of butterfat for of inferior grade, has heen the meam srade, has been the means



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(rongeor than fron bands and have many other advantages over

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tilizer can also be drilled along with seed by a
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 filacts it torronto, and Wwon arix.



## BUTTER\& \& \& EGGS   Emebleber nse. TORONTO, ONT.

of retorming many of the oarolese ed. By this aystem the buter a thrmer of the province. If you hit the 16 cooparative orvamerie but if you hit him in the pocket he almoed unifform in quality, whil will aot. In addtition to the system these creameries were operated being the means of improving the vately or separately, they would
quality, it is the just and fair way to producing 16 different srades of quality, it is the just and fair way to pay for milk and cream. The old nyetem penalizes the best, dairymen and rewards the careless and indifferent. Grain, fruits and other farm produce are sold according to their quality, Why should not milk and cream be purchased in the same way? Hied Baskatolhewna fiot adopted this sys. tem, she would not now be able to sell her butter from one to two cents per pound higher than Bastern butter will bring on the ame market.
Another featare of almost equal importance to the grading of the cream, is the cociperative marketing of the butter. The praotice of having all the butter trom the creameries brought into cold storage as soon after It is made as posaible and seach churning carefally pocored, and its condition roponted fimmediately to the man who made it thas been more efrective in improving the quality and epeetior that could have been apop producing 16 different srades of position to supply any wuantily be position to supply any quantily ter of a particular grade. By
operation of this principle we are operation of this prinelple wo ar market for Saskatehewnen butter would be imposaible it the old would be impossible
By the adoption of the coope prineiple in the formation of the principle in the formation of the col
panies and the operatiorf of a number of creamerles under one hend, import ant bavings can be made in v ant savings can be made in ing the books and marketing the o put, and the marketing the ouly speaking, oarried on much speaiking, oarried on much were operated soparately, I thi were operated soparately, I that the ereamery industry in that the oreamery ndustry province, so far at least as the operative creameries aro concernes baels.

## Home Grown Clover Seed the Best

It is Hardier, Cheaper,' and is Usually Sown More Liberally Than That Pup chased From the Seedsman-By F, C. Nunnick
 UT of twenty-three farmers in conduoted Provinces who have conduoted illustration work for the Commission of Conservation, only two claim to have been sowing their clover seed thick enough to ensure a good catch. Twenty-one had been
sowing an average amount of six sowing an average amount of six pounds to the acre, whereas they now sow 10 pounds to the acre. Some had sown as low as three or four pounds, but are now convinced that 10 pounds farmers had previously it. Three farmers had previously grown their own seed, while now 12 are regularly doing say: The high price of clover seed had something to do with our sowing a own seed, amot, but since growing our own seed, wo do not mind sowing it heavier and ind that the extri
ing more than pays for itself,"
Another farmer who had not
ously grown his own seed not prevbin 1914 they produced 500 pounds of in 1914 they produced 500 pounds of alsike seed and 100 pounds of red clover, while in 1915, he grew over
1,000 pounds of red clover seed. The farmer doing illuatration work for the Commer doing illustration work for the in 1914, grew 1,200 pounds of red in 1914, grew 1,200 pounds of red clover seed and had never grown a
pound of his own seed previous to pound of his own seed previous to slon.
$\stackrel{\text { Ion. }}{5}$.
M. McLean
an, New
ow Perth
"During the last two yeara the first crop of hay was alwsys nuch better on the area sown with 20 pounds of clover and 10 pounds timothy, while ctover and 10 pounds umothy, while this year we have an unusual stan clover in the plots heavily seeded. We find the second crop is always much thicker and of a better quality after the thick seeding."
Numerous comparisons have been made on the Illustration Farms in the Way of trying out homegrown seed side by side with that purchased from seed houses. The home-grown seed has siven, in every instance, better results, in suas seed was grown seed was juat enough hardler to survive the winter, waile the crop from the purchased seed muffered very much from winter killing. The wlue farmer will plan now to have a crop of
clover seed thes coming summer, if clover seed this coming nummer, if poasible. By cutting the first crop lowed to got an early start.

## The Milking Problem

 A. Bishop, Oxford Co., Ont.0UR larger dairymen are ing more aud more They meohanical milking machip men who are efticlent them the miliking machlies good inveetment, mach how will ber good Inveetment, but how about maller farmers with 10 to 12 Who wall have to condinue milhing by ar. Many of mantines become cheap er. Many of the men on whom in immisrants, who mave are old country immigrants, who have not a sufficient appreciation of What a higtily ous animal is the dairy cow. hat 1 had recently informed me whet解 that that was the way they over home," The only way out Ifficutty that 1 can see is esob man as they come to us, explot o them carefully the characterisito of our dairy cows, and then tell them how to milk as we would do it ous selves.
In the first place 1 would not alor a green hand to start right in millitiy a valuable cow. 1 would stayt hime of the least valuable cows that 1 and on some that are tairly well vanced in lactation. When they harr learned to manipulate the teats with out puling too hard, and with dy hands, I would let them attempt ib more valuable cows. I always leat my men to belleve that good millinity is really an art, and nomething wort acquiring, and 1 have trained some very green immigrunts to be rem considerate milkers.
A bigger proposition than the greem fmmigrant, however, is the carolem farm thand who thinks he knows hos to milke and really doesn't We har had some of them. They jerk ity
hat hadts, wet their hands and then wos der why we are not satistied. If 1 were not that help is so hard to would never hire a man of this kith! He, too, however, can be educated He, too, however, can be educated lake a reasonable pride in the opent utar. I have noticed that since I hant imes a month records of of thany umes a month reconds of produced by each cow that my mu takes more interest. We have
own cows to mill, and one can own cown to milik, and one can eand
work up rivalry between the two
of cows, each one make this owa oow Tomplain about the men on the dairy f that hired men pr beet or grain raiz pever had this tro belleve that their they regand the mith Insist on it being morning and aftar I were a hired man etween worling $b$ six on one farm wit ind on anothar wht o milk after suppe ate long in employ We of the fence to roponition in Its

## Other Peopl

The Curse of $\left[\begin{array}{c}\text { DITOR, Farm a } \\ \text { vears ago the }\end{array}\right.$

Evears ago the Methodist Sunday the effect that th Memorial Temple, built on a lot own
Field, a well-known Field, a well-known chant of that city of The price paid by people for this lot dollars, with the c with all buildings vert to Marshall Fitl Of course this printed in the pape
ed to show the far-si ed told in being so lue
Fin the Field in being so Jue
valuable a spot of valuable a spot of
courage its readers similar spots of eart aim to imitate the Fionaire Field.
Now, Mr. Editor, permission I would foregoing as a text a sermonette, seeing monettes are rathar sure to be interestir to dollars and centsand age
Let us rimember
that Marehall Field - Marmmain Fold vife and children chousands of others ee or know or care The gathering toge makes the holders a land rich at the exp ors of others. stance of Marshall every year rent out


Concrete Step Construction Diagramatically Explained.
of cows, each one dolag his best to make this owa oows come out ahead.
have frequently heard nelghbors complain about the dificulty of hiring men on the dairy farm. They tell me that hired men preter to work on a beet or grilin rilaing farm, where there are no cows to milk, 1 have never had thls trouble myselt, and I belleve that their diffioulty is that they regand the mitising as cthores, and fnsist on it being done eariy in the morning and after supper at night. It
I were a hired man and had to ohoose between working between seven and six on one farm with no cows to milk, and on another with five or six cows to millk afler supper I wouldn't hesitate long in emploging with the firat man. We need to get on the man's side of the fence to see thls millking proponition in fts right light.

## Other People's Opinions

The Curse of Landlordism $F^{\text {DITOR, Farm and Dairy, - A fow }}$ E vears ago the writer saw i short Methodist Sunday school pane of the Methodist Sunday school papers, to
the effect that the Miss Willard the effect that the Miss Willard Memorial Temple, of Chicago, was built on a lot owned by Marshall Field, a well-known mitllonaire merchant of that city of some years ago. The price paid by the temperance people for this lot was one million dollars, with the condition that, at the end of a terin of years. the lot with all buildings on it, was to rewert to Marshall Field or to his estateOf course this little item was printed in the paper above mentioned to show the far-sightedness of Mr. Freld in being so lucky as to own so valuable a spot of earth, and to encourage its readers to look out for similar spots of earth elsewhere and aim Zo imitate the example of Miltionaire Field.
Now, Mr. Editor, with your kind permission I would like to use the foregoing as a text for the basis of a sermonerte, seeing that such sosmonettes are ralher scarce, and it is sure to be interestine, as it relates to dollars and cents-god of this day and age.
Let us remember that it is renit that Marshall Field got rich on-not his own labor nor the labor of his wife and children-hut the lobor of thousands of others that he did not sec or know or care anything about. The gathering, together of people makes the holders of title deeds of land rich at the expense of the labors of others. This particular instance of Marshall Field, drawing every year rent out of the labor of others for the privilese of letting
them use a spot of earth, is dunlicated in every city and town in the world. Henry Geopge aptly termed this creature that lives on rent as "Ehe robber that takes all that is Ieft:" The great Richard Cobden. of some years ago, saw the very same, "Robber," for he often said "The heaviest burdens on the land is the landowners." That is, land ow is ers, as such, are a growing Public Debt on the rest of people. As the
city or turn City or tuwn grows, so grows the Public Debt renresented by the title
deed of the landowner. His title deed is a bond and the other people are "in bondage" to him. No matter what people may do, no matter what efforts tbey make in, order to better conditions, the Marshall Fields every. where ean laugh in their sleeves and take rent, more and more, and keep the masses at or on, or below the poverty line.
Seeing this great wrone. Henry George prbclaimed, "Unless the foundation of our civilization be laid in iustice the structure cannot stand." And years ago another great liberator, Lincoln, declared the same thing, honcoln, declared the same cannot stand. "This nation cannot hermanently endure-half slave and air frce.
Shall we heed their warning? The good old Bible points out the remedy when it states : "The profit of the earth is for all." That is, the value of land is for all. How can it be taken for all instead of allowing it to go into the pockets of a few who come rich at the expense " who betears and poverty of the many? Here is a problem as imporlant as the war. If this war does not overthrow civilization, then the continuing of this system of allowing solve to own the earth for the purpose of robbing those who work, is sure to do the trick. While our young men are enlisting to fight the enemy abroad let those left behind enlist in
this same destroying monster here at home. It is not necessary to look into the cannon's mouth to become now dernis monster is right here nushing lifting widows and ornhans. cnushing little children, and reaching; out its lenacies to renerations vet unborn. Enlist in the great campaigh for the un-taxing of labor and the products of labor for municipal provincial and federal purnoses, the taxing of the value of land and the public treasury, where it into belongs. - They who wave it iustly feel and minds to reason, to them "he clarion of the battle calls.

Earth t bonds, vour Mother he rich man
Youth Mother Earostitute and slave: birth,
You own her only for a slave." why not arise, think, act and inshall speedily disan this giant wrong Lamb, Alberta. disappear? --W. D. anm, Alberta.

Every Year, readora of Fherm and Dairy are in neod of practiond Information eonof builiting proper mixing and methods for foundnfions, fooms, sflon, fence poins and other llines of permanent work on the ment work thls Epring phouing to do co: avail work thamalses of the opportun'ty to getirimg that mplendid booklet put ip by "What our bls comant firms on. Whed, omate: You wall find the Do With Conon another pasfe of Marm and Doiry. This writer hins cound thly booklet one of the mubj practioal ones that is fismued on the are planning to do cerment work of you kind, tarm up the coupan and make any
of getting a copy.


# 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 $\$ 1000$ 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 25 most called for parts aitogether 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.



An Advocate of Inbreeding Telks ＂ $\begin{aligned} & \text { LIKE the animal．Just what I want } \\ & \text { as an individual．But I can＇t une }\end{aligned}$ as an individual but Don＇t bellove in in－ breeding．＂How often every wreeder of pure bred stock has heard that ob－ jection raised by a prospective buy－ Is the objection well taken？Per－ haps it is in the case of the careless or indifferent breeder．But inbreeding
has many advocates among carefifi has many advocates among careful men who are students of their breed．
One of theae，W．C．Jeffries，writod interestingly of bis ideas in the＂Ohio Farmer：＂Here are a few extracts from his article that explain his be－ lief in the wisdom of inbreeding．
In my herd I have a cow that is a splendid example of a strain that is not a strain．We call her a Johanna and that is a part of her name，al－ though she carries less than a per
cent of the blood of the famous m ． cent．of the blood of the famous im－
ported cow Johanna．As showing ported cow Johanna．As showing formed let us take a peep at the method by which the present noted strain（if we may call it a strain）of Johannas was formed．

Gont Slood Dilluted
The cow，it ported Johanna，w int into a Wisce sin herd，the owner of which did not believe fin inbreading． She was bred to a bull of similar con－ formation to herself，but which had not a drop of Johanna blood The
result was Johana sth carries so per result was Johanna sth carries so per
cent．of the blood of Johanna．She cent．of the blood of and manna，ande an was alial record of over 28 Ibs ，of butter official record of over 2a lbs，of butter
in 7 days．She in turn was bred to a in 7 days．She in turn was bred to a named Johanna Rue，with a 25 per cent Johanna，and ad－1b，record，She cent Johanna，and
was bred to a bult of approximately was bred to a bull of approximately
the Johanna form but carrying not a the Johanna form but carrying not a
drop of that blood．The result，was drop of that bood．DeKel，resuht was $18 \% / \mathrm{per}$ cent Johanna，with a record of over cent
20 lbs．
She was bred to a＂no－relation＂ bull and produced Johanna DeKol
$3 \mathrm{~d}, 61 /$ per cent Johanna，with a 3d， $61 / 2$ per cent Johanna，with a re－
cord of 18 lbs．Bred to a buil without


A type of Holstein Cow popular in both Holland and Amesica：
Johanna blood she produced Johanna De Colantha，about 3 per cent Jo－ hanna，and with a record of pearly ${ }^{55}$ lbs．The same old trick again and the result is a pair of twin heifers
that are still called Johannas at－ that are still called Johannas a－
though having only a trifle over $1 / / 2$ chough having only a triffe over 1／t
per cent．of the blood of the import－ per cent．of the blood of the import－
ed cow Johanna．The supposition is that to the end of time their poster－ ity will be still called Johannas，al－ though carrying practically none of though carrying practically none of
that blood．The name Hannah Jane would be just as appropriate．

The Impossible in Breeding
＂Can a new strain be produced by bringing in new blood at every gen－ ration？A crystal stream comes rip－ pling down the mountain side；after eaching the prairies it is joined by nnumerable，tributaries，that there are same stream？Claim that there are very dew true strains of domestic day．

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Bar， $60-\operatorname{lnch}$ 58 e
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6.30

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 41 Deck Streen．SL．Johin，N．B．
breeding is a mere bugaboo to man intelligent breeders and that i retarded the progress of stoch gressing without inbreeding and seems to satisfy most of us； confidently look for the future of inbreeding through the potin done by introducing brand new with every generation．

## Result of Out－Breeding

 ＂I imagine that I see 1000 weeping Weeping over－what？ the loss of Atlantis，but possibly a greater loss．I refer to the complete，extinction of the blo Justin Morgan，one of the most famous horses．It was the slow but sure process of dilut very men．would hold un their in horror when the subject breeding is broached．If 50 per of the blood of Justin Morgan worth having why would not cent．be better？If 100 of his there should have resulted at a score of choice mares and dozen extremely choice sta each carrying 75 per cent．of theof what many people call the greatest horse．With that bur inbred horses for a nucleus we would to－day have had the real Morgan horse instead of a make－believe Mor－ gan that has twice＂leventeen＂cross－ es to the original horse but carry only six per cent of his blood．
Is there any animal in the that is so much better than its kin
that its blood should be perpetuated almost in its entirety？It can he done only by inbreeding．New through a hundred tributaries will serve only to wash it out of exis－ tence．

## Lice

HAVE two cows which show symptoms
of being affinted wh I of being aftricted with lice first noticed the haises abreut showing a sort of sourf or dandru seems to apread over the body． ompen out，and there seens to root of tal the doin like very small poils．Ihave tried waining them with a solution of tobicero but so far I can gee no
H．B．，St．John，N．B．
Give a thorough wanhing with warm five per oent，solution of cree－ In．Repeat every 10 days as long as necessary．Treatment will be eastr If you cilp them，but，of course，you must keep them comfortable if you must
ellp．
＂Can any one name a liquid that doesn＇t freeze？${ }^{\prime \prime \prime}$ asked the teacher． There was a moment＇s sillence．Thes a volce in the rear of the roen a voice in the rear of the rona hot water．＂－Youth＇s Compaaion．

## HOLSTEIK－FRII

## Farm and Dairy

 oxponont of datryThe great majority of the Camadian Association are
paper．Member oi are invited to send
eist to Holsteln br eist to Holstein br
lication in this col

SALES DATES Sulon of Holateing，D
tal Spring Fram，Yen mplote dipperision puro bred Holsteins
Steven，Philipsvile． Complete divoraion
c．Ketle，Whioonvy
Ainual sale of Hol Farm，Brockvillo，May
Brockville Distniet atelnh，about 75 head，
poy．Secretary．

HOLSTEIN LEA T $\mathrm{A}^{\text {LL }}$ Holatein breede Hardy＇s great cow， yagrin breaking rec fore unheard of minne


 Mr．
whe
Wat

\section*{| mal |
| :--- |
| Daid |}





LEADING RECORD：
FRIESIAN COW
Mature 1．Datsy Mature
11m． $13 \mathrm{~A}: ~ 595.2$ Ibs． 28． 66
kiteek Hilil 2．Hik－Cr en call from hear his usual Gediaon Bquare
milk．Ik． 42.18 lbs．fat．1．Brethen，Norw，

F. Fiva's Beatrice
13d: 593.6 lbs,
is lbs butter.

midny record: $6 y$,
mill. 86.34 lbs. fat,
C C. Haviland, Wind
Senior Four-
Wooderast Corne
32.26 Jos butter.
wille, 48.90 record: 49 . 49
C. Hardy, Brockville
m. Pd ; 556.1 lbs ,
Cora Netherland
lim. 104. 519.8 Its
15. ibs, butter.
millk, s7, 荡 1 bs .
M. Van Patter \& 8
M: Wayne Butter
Bos, botuer.
record: $4 y$.
Junior Four-
 $\square$ 2 $\square$ $\square 2$ $\square$ $-1$

## HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the leading oxponent of dairying in Carsda, of the Camadian Holstein-Friosilis Association are readena of the
paper. Memberis of the Association paper, Aiembers of the Association
ars invited to send items of inter-
ast to Hoisteln breeders for pubest to Holsteln breedera for Dub-
lication In this column. (

SALES DATES CLAIMED
Siles of Holsteing, D, A. MoPhee, Crys.
tal Spring FWrm, Vankeek Hin, Apr. 20 . Complote disparsion anke of 100 head of stovens; Philipswille.
C. C. Ketule, Wiloonvilie, itay 2 Amnuel sale of Holsteins at Avondale Brockville Diotnlet Club, sale of Hol-
ateins, about 76 head, May 18. C . A . Gilateins, about 76
Noy, Searetary. $\qquad$
HOLSTEIN LEADERS DEAD TWO giants of the Holatein world reis of Kalamazoo, Miah, had juat returnid from a mueting of the board of direcof Amertea, when he capitulated to an atWhes preakdent of the Maple Crest Btock Ohio, is obe of the greateat in exintence.
Jobin W. Artmann. proprletor of Fais. mont Farma, Mlddietown, N.Y. ., had al sudden call from heart tallure on Maroh
Ild. Mr. Artmann was apparenty the. Mr. Arfmann was epparently enone Mindiaon Square Ganden sato omitior
in the wook.

## MAY ECHO SYLVIA.

A LL Holatein breeders will be interentHardy's mreat cow, "May Beho Byivia." Is agnin breaking records in a here tofore unheard of manner. Although only a
eport time dry betore freahening, and
after miffering a nevere attack of mill fever, she hay a aovere attack of millk
record of 854.7 the thene of writing a record of 854.7 Tha, millk and it tha sut-
ter in aevan daya. 8 see stands to-day as
"Queen of the breed" bucen of the breed" for both millk and world's records, Mr. Handy elaims, aade and utild in the ring. 6 -year-old and 7 -year-old, An reedions shounta no
Me this great oow under test. Come to Mr. A. C. Hardy's sale on May Mome to
where at may be meen fed Where ahe may be seen fed and milhed. bule in next week's issue of Furm and Note: On another page of this iavae is publiched an Mlustration of Lakeview breed in Canada. This fllustration wat almeady on the press before Farm and Dairv heard of the now great reoord of
May Beho Sylvia.-Editor.

LEADING RECORDS OF HOLSTEIN-
FRIESIAN COWS FROM MAR
FRIESIAN COWS FROM MAR. Mafure Class.









 Senior Four-Year Cias
Wooderegt Cornella Pletje, 26146, fy
11 m.
 Tardy, Brockville.






J. Mokny, Cornwan.

Junior Four-Year class.

butter a a Haviland
 atook

Sentor Threo-year clase.




 M. Van Patuer \& Eisona, Dunioyne
 Junlor Three-Year Class.
 senlor Twoil. ingersol
Hill-Crest King Pear Class.
 14-day, reoord: $2 y .8 \mathrm{~m}, 3 \mathrm{~d}$; 916.4 Ha

$$
\begin{aligned}
& \text { mitk, } 35.15 \text { tha, fat, } 48 . \\
& \text { A. Brethen, Norwood. } \\
& \text { a. Katie Abbekerk }
\end{aligned}
$$

$9 \mathrm{~m} .4 \mathrm{Cd} ; 432.8 \mathrm{lbs}$ milk, $16.60{ }^{29368} \mathrm{lbs}, 2 y$. 20.76 lbs , butter, milk, 16.60 lbs fat,

 $14-\mathrm{day}$ record: $2 y$. 8 m . 12d.; 860.5 tbs
 8 m . Lady Rhodn Netherland, 30292 , 2 y . 8 m . $0 \mathrm{~d} . \mathrm{d} 366.3 \mathrm{lbs}$ milk, 15.48 ibs fat;
19.35 lbs butter. Geo. A. MoRae, Boins
ville.

Junlor Two-Year Class.

 ac. Plotio Inka Pontinc, $30679,2 y$. 0 m 3. Maud Fayne Schoiling, 32as2, 1y

 Special Record Made at Least Elght
Months After Calving. unior Four-Vear Class.
 18.36 iba. butter: 14 -day reoord: 4 lm .12 d ; 764.4 the A. Brethen $28.77 \mathrm{lbs}, \mathrm{fat}, 35.96 \mathrm{tbs}$ butter. $G$ Duning the last half of Maroh the reoived and accepted for entry in the Becord of Mervi. Dasisy of Burnbrae oows with 28.66 fos. butter in matur Whille Hali-Oreat Henirerveld Latasle comed In the ir 27.42 lbs .
In the ir four-year-old class of the Hight monchs after oulving diviston, a new Canadian raoord for her aseW. A. CLEMONS, Secretary.

WATERLOO HOLSTEIN BREEDERS

TWh necond annual meeting of the E Wreoders, County Holatein-Frienian Council Chambers, Berlin, on Thursiay, ern from throurghot the county beedpaus, oocupled the chair and Hallman, Broenfulk on the work of the clup and the future proapects for Holinteing in the up advertising of stock by the to take asency with the Department of Agrioultore, Galt, where all stock for sale or where breeders who wil be liated, and tock oan necure thelr lists by applyins will fake charge of the work. By who method it is thought that a better system of buying, seling sand exchanging of
herd aires among the breeders will bs establiahed throng the breeders whili be be letterheads and envelopes will also Mr. Mallory, Becretary of the, Belleville District Holatein Breeders' Club gave a short taik on the work of that
club, and in his remarks stated that unity amons the breeders wha one of the atronceat features of a Holitelin Cilib. The work of making a Holeteln breeders by means of the records made eral election of offoers Mr. Mallory again sddresed the meeting on the "Making
of Records and Official Teat Work." His


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addres was very interoeting, and many mation were reoefied by those prosent acclamntion: Pronflent. X . c . Iected by Hrealau: frat vice-pres., Andrew Zoel-
tor, New Hamburg: iegond vioe-pres, Anthony Gees, Waterloo; secretary, Wm A. Rife, Heapeler; directors-H, Knell
Berlint Warren Bean, Now Hamburg: I, Shoemaker, Berlin: Wm. Douslas, Gatt Shoansker; Berlin: Wm. Dousias,
John Howling. New Dundee; D, B. Hett man. Elintra; H. Bechner, Elmira; H. H.
Groh, Proeton: A. Shantz, Waterloo; H Tudolph, Berlin.-Wm. A. Rife, secre tary.

## 37-LB. REPEATER.

B comelumbel a fohana hat has fuse vo.

 nowiteant porlormer, as at mown by the At 7 yne 1 ing of rocourds:

7 dayg



 Sho has fuithem proved her ereatnail

 Ballo Node Cuesen...........30 m. 2.03 Ebo ha beon a hivi prizo wimer

 all been rocorded in cancas ahe id dibs. gir Honsorvel Hometad Do kol evir




Couds you leas than a third the
price of a Leather Breast Strap and price of a Leather Breast Strap and
given you greater strongth where you need it.
Note the Note the heavy eteel slide that yoke ring-the strong, hard rop 0 OR PER PAIR, 906. popt PEMPLET, WITH ( $\$ 1.00$ Weat of Fort Wiliam.) Order a pair trom your dealer, or
he doesn't stock them write ui if he doesn't stock them write us
and we witt seen that you are sup and wo Witt see chat you are sup-
plied. Get acquainted with Grif: ith's Specdatiles. You Get more value for less monay by using them. WRITE to-day for Booldet, entitied
Whats Now for the Etable." Q. L. GRIFFITH \& SON 76 Waterioo St.

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## |36 <br> Head $=$ 36 Head Pure Bred HOLSTEINS

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 Trains will be met on day of sale at Vanesas station, T, H. a B. Con.
nections with M.C.R. at Waterford. Q.T.R. at Brantiord. Catalogues ready
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Do you want the blood of Worldy Champlona?
He No. 1.-A beauty, perfect in conformation. deep bodled and straight,
 Two 25 ib. 3-yr. old anoters.
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K. M. DALGLISH,

Low Bank Stock Farm
Kenmore, Ont.

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LEAVENS \& PURTELLE, Bloomfield, Ont.
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 fow dayso wriked us to-day if you want a buil

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gananoque, ont.

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Youny stock for nale, always on ha nd (both sexem), from hish-teating Three fine young sires ready for service. Get particutilurn of theno if you need a aire. R. T, BROWNLEE, Pea ch Blow Farm, HEMMMINGFORD, Que.

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4. W. LOOAN, Howlek station, P, a.

## Market Review and Forecast



WANT Young Hoterctin by tor produotion. Re

## Fairmont H




Betay Brown, Mosss clase,

 Poly of Hilulow And, a8089: 12061 lbs .

 Four- War-Old Class. Que.
 Primose of Beaver Mon, Oreanivile
Meadow, 33330 :
 suice 9987 low. milk, of Fernbrook Que.

 Three-Vear-old Class.



$\qquad$

(1)SELDOM SEE
a big knee like this, but your hone
may have a bunch or may have a bunch or bruise on his
Ankle, Hock, Stifle, Knee or Throat ABSORAINE will clean it off without horne up. No blister, no the gone. Concentrited - no hair drops required ay an application. \$2 per






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3 APPLICATIONG GUARANTEED For Sele Evervwhere. Write for FREE Sample Douglas \& Con, Mfs. Moras

| PURCHASING AGENT. <br> is yoara exporitence with Pure Bred atock, References and terma ${ }^{\text {an }}$ R. Application. Harding <br> R. H. Harding, Thorndale, Ont. |
| :---: |

## WANTED



## Fairmont Holsteins

 brosent offering a fine youns Ourvilla SIC Teakie Colanthat by Bensle Banks Mercena, is as darn, butter at 2 yoers. Write to-day. Peter S. Arhogait, R.R.Mo. 2, Mitchell,Oat.|  |
| :---: |
|  |  |
|  |  |


Primiose of Two-Year-Oid Class.



 Thamasiow Lady 37973 : 8642 lbs A. Bdiwinds, Jry, finatham tat, 365 daya, TWO NEW AYRSHIRE RECORDS T
Wh
Yen
17.7
but
Wo
Tit
Eit Wheelinge, Woat ba Reyminn Eatnte yer of offecial tenting. with a rocord of
 Etta Junior twa-year-old, whllownoor owned by J. W. Clise, Redinond whed and ington. has foast closed Redmond, Whahchal terling, with a record of 10,691 lbs.
 Champlon Sunior two-yoar-old.- C . II. BANKER AND FARMER. $6 \mathrm{~S}^{\text {ELLINNG putter-fut, machine separ. }}$ $S$ keens rainet thaly aill whole millk, tuily at homa" ero the four alalia, the cown and ples probit and fortility. Thare is nothing to "The reguiar weokly or montidy detry pay theques het meintain farnulgg on ou The above are a fow extruota from a writem by B. F. Harrts, a banker-farmthe and publiblied in a booklot form by riv. the writer, owne and operates the

 combined with a keen burn experionco, thus syos him an exoepthonuly clear Cropen of the buaincos end of farmings
in the thunde of the branches or placod In tho thund of the branches of all our appresintion of the position oo the diacry and shind be an inocotivo to to aperity, of farmer-he dur mont procrrosive olans

UNDAMAGED BY FIRE.

0N anoount of the wrons impresion ditnery in Co. Litd Reo the Renfrew Madilked to ati, Lta, Rence to our readers, wo are

 aftooted. Phoo anate being oompleted not


## FARMERS' CLUB Correapondence Iavited.

## ONTARIO

## bRUCE CO., ONT.

Cary arbuis, Aprid, ONT.
New Yers on winter fro Now yoerts on Fas of a midid nature, bat for the other two monithawiy made up
wero protiy bedly bloctiod. the roads until the 2 oth When boiked. This morted
midd with rinin what the wouther turned



 averuge have lots of foed. mict as stran and roots, wed catte ans rosult aro



90

Dispersion Sale of

## HEAD <br> (HEAD <br> PURE BRED HOLSTEINS

## PHILIPSVILLE, MAY 3rd, 1916

The sreatest chance of a lifetime to aecure some of the high teatimis will be sold, aboolutely without your own price. Every animal in the herd The females are nearly all teetarv.
lbs. butter to 30.61 lime in seven days and their records range from 18.78 Oypsy Queen Fihoda, the 30.61 th
and her trill caif ten monthe old, cow in this sale is a splendid individual Lad, is a dandy-you will Mike htm. Another nlee yson of Plet je Korndyke mon of Rag Apple Korndyke sth and out of a nice young bull is sired by a Pietje Korndyke Lad. Every fenpale in of a 25 ibs .3 -year-old daughter of yoars of age. Twenty-aix are two years old therd but aix is under eight

Terms of sate:- 4 months credit on approved notes at
All trains met at Brockville Junct, and Phillipevill 6 per cent,
H. W. TMERSON, Auctioneer.
W. C. STEVENS, Prop

## Private Sale of 44 Head <br> of pure bred H. F. cawd, helfern and calves. Fourteen cows have freshened to pate six cows and moven hutfera are due to fresthen thls spring others are yeawitisas, and coives all temales. The frechen this spring. The Johnoan. For furt of the Johnoon. For further particulars write <br> MRS. J. W. JOHNSON <br> R. R. $\mathrm{No}, 2$ <br> PARKHILL, ONT

WRITE QUICK FOR A BARGAIN
R. .31 as a two-year-old. Ono bull helfer with 91.35 mbe . butter in 30 days famales and a couple of bull calves for mile. Thise Aso some cholee youns high omteriyl records. They are gotng sit a bargatin. Our ail from duams with
W. J. BAILEY, Lyndenwood Finder, write gulck
W. J. BAILEY, Lyndenwood Farm, Jarvis, Ontario

## Pure Bred Holstein Bull Calf For Sale



 W. E. WATsont W. E. Watson PINE aROVE, ont.
AVONDALE HOLSTEIN BULLS

 H. LYNN, Avondale Farm, R.R.'No. 3, BROCKVILLE, Ont.

LAKEVIEW STOCK FARM, BRONTE, ONT. Briedera



E. F. OSLER, Proprietor. T. A. DAWSON, Manager.

## We IRED BY BURNSIDE HENGERVELD KORNDYKE

 dam gave 20,125 lbs milik in 9 months and 26 the above great sire, whose 27.60 lba , butter in ? days. If you noed a youne aline with ine. in 1 day, and write me. Sntiaftaction suaranteed-and prioed et enly towion fare backing.JAMES MOORE
R. R. No, 1,

ALMONTE, ONT



## -so now there's no need to sacrifice pride to economy <br> This Overland costs only $\$ 850$.

But it is every lech an Overiand-a perfect beauty. sturdy and powerful light, economical car, it is roomy, ad powertul
And it is absolutely complete to the last detall. Never before has a stylish, comfortable, completely equipped car been offered at anywhere near so low Now
Now for the first time, exacting pride and atrictest economy are fully satiaffed in one and the same car. And for easy riding thie newest Overland lame car. compared with any other car of its tire,
In fact, many a big, high-priced car lo nowhere near $s 0$ easy riding.
It has cantilever rear springs which absorb road shocks more perfectly than any other type. Large four-inch tires add to its easy ridin. And the seats are soft and deep and bullt qualtive. long apiral aprings.

The seats are also broad and wide-ample in their of cours five fuil grown people.
Of course it la electrically lighted and started and Ing eiectrical control awitches are lecated on the steer-ing.column-right at your hand.

And if you want top clase thie apring-
this Overland, for ho clase at bottom price, it must be this Overland, for no other car meetie both these requirementa.
No wonder it has owopt the country-the biggest and quickest succeis of all our long line of record making
But one thousand cars
our production.
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producer of care of this slze and clase.
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[^1]:    "Mammy, dear," said little Matty, "what is a stepmother?"
    "If I should die and your ded should marry again, the lady would be a step nother.
    "Oh, 1 see" remarked Matky; "yuald step out and she'd step in."

