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## Feeding for the Test

$\square$EEDINA cows when inder oftioial test is a aubject of perenaial in: terest to breeders of dairy cactio who value pertormance ahead of all other things. The methods followed by Fred Blower, a New Yorle Btate dalryman, who has made many creditable records, will cheretors the of interest. They are described by H. . Babcock in the Breedets' Journal. He writes:
"Ualike many breeders, who lay special stress on the preparation of the cow betore calving, Atr. Blewer belleves that one of the most essential things for a saccestul official test is the ration. Thls he states muat be something that the cows lithe and do not ctire of, of ecurse, he dioes not neglect the preparation. He likes to lave his cow dry at least two months betore she freshens, aluough he has made some very good reconds wheo chis fas not been the case. When once the cow is thoroughly dry he gradually works her up until he sived her all that she will eat of the follow: log ration: Equal parts of oll meal, wheat, bran, and hominy. This is fed to her three times a day with enallage twice and hay at noon. With this ra. tion Mr. Blewer has hever experianced any trouble with his cows at freahening times, and although they make op targe udders, has never milked them ont.

## The Test Ration

After the cow fias freahened, Mr. Blewer begins to gradually change from the preparatory ration to hits regular test ration. This later ration is made up of 200 pounds of ground oats, 200 pounds of gluten; 209 pounds Biles or other good brewerr grain, 100 bis. of oil meal, 100 . lba of cotton seed, 100 ths , of homing and 100 ths of bran, making a total of 1,000 pounds, and is ted thres times with heets and otice with easilages. Alfalfs lhay is often fod fetween millings. While this is not Mr. Blowerts rezular dairy ration, be states the belteres it whuld be a very good one to feed with onaltage and mixed hay, were it not for the difficulty of securing such varlety of feeds.
Ordinarily by the end of alx days and is ready for the teat. Daring the pertod between the time of frethen. ing and the completion of the officiat ing and the completion of the official
test, she is milked four times a day and fed just before each milking Whob day she is given some exeroise. Mr. Blewer, however, takes great care In this matter and tin especially care-
ful not to let his cow out where aho
nill get in drafty places or become suddenly cooled. tunless the day is very favorable indeed, the ceives her exerciae in the barn

Shange of Milkers Preferre
"In the matter of nilkers. Blewer agals differs from many breeders in that he believes sod change of milkers is beneficial. Hi states that it is his abservation madi on over fifty cows that where tha milkers change oecasionally a better millk flow is secured.
"Another polat about which Blewer is very careful, is letting the cow down at the completion of test. He belleves that more cows ar ruined at this time than at any othar
period in offlela! toat work. He be perlod in official toat work. gins by gradually reduclag conthuing the four millifigs a doy til the cow falls below filty prund Fhen lie belleves she oan sately bo left te two millkings.

## Care of Lighting System

$\qquad$ He tarm Hghting syatem wust atteuded to with great care, say J. L. Mowry in a recent bulletis on "Lighting Farm Buildings.
acetylene gas system in perfoct acetylene gas system in perfect worlo ing order is an Intricate diachinery, he says, and an electric lighting playt to far mare delicate. Ifhting plant takes more attention than an equivalent number of coaloll lamps or candles.

Good lightiag aystems for house and barn, however, add to the attractir ness as well as to the conivenience farm life. Trouble is uqually due to fenorance or hagisigence. The into daction of modern equipment, such ai aigh-afficleney lamps, has done muld to encoaragy the development simall Lnolated plants and a few yena may make their use commion.
"Not many years ago," a Mowry, "many men would not Mr of getting in behind the wheel of sis of getting in behind the wheel of at
automohiles much less investing
mater money in such a masolitne. money in such a machine,
there are fow who do not there are fow who do not teel that
they can care for the power they can care for the power plat which ts lang between the fort wheels of a motor car.
"The man who puts in the isolaci lighting plant should undertsiad thoroughly and should have made if with the pigs and the calves ond th chlckpus, to receive tis share of por sis. if attention."

Laud plaster used freely in tha ins bles will absorb all odors and incresst the fertlizing value of the thaidire.

How a Young Norfolk County Breeder Diseovered the Producing Ability of His Herd and is Taking Advantage of It ANY men are accomplishing good things in a quiet way on the farm. If little is heard of them it is chlefly because they refrain from heralaing their own achievements abroad. They are too busy doing things to bother much about who hears of them, and it is only when they are discovered by some one in the publieity line that the work they are doing becomes known outside the eircle of their immediate acquaintances.
Such a man is Ashton Somers, of Norfolk county. While on a trip through that county recently I heard of the good work Mr. Somere was doing with his herd of pure bred Holsteins. Naturally a became anxtous to make his acquaintance, to see his tarm and stock, and to learn something of the methods by which be was ackleving success. Mr. Somers was busy at the spring seeding when $t$ called and could not be expected to spend much time talking, so with his consent 1 strolled over the farm alone, taking notes as I went. Later, Mr. Somers told me that he and his father had worked the farm together until four years
ako, when he took foll ago, when he took full charge.

## The Barns Remodelled.

Two years after taking over the management of the farm, Mr. Somers remodelled the barn, putting in cement floors and up to date stable Axtures. New siding wns also put on the barn and a good coat of point added, thuie improving the external appearance very much. One ttem of interest which was added at this time to the internal fixtures wan a lerge cement trough. it was placed in one corner of the stable in a fairly large box pall. In the winter the cattle and horses, a few at a time, are allowed to come to this trough to drink. This seemed to me to be an lideally located drinking troukh for animale in the winter. A certain amount of exercise is given. without exposing themi to the wintry weather, and the water in the trough is raised to a temperature much bigher Than it would be if it were outside. A similar troukh is provided in the ard for inse in mild weather. A wludmill is used tor pumping the water from a nearby well finto an elevated


The Barn and Silo on the Farm of Ashton Somers. Photo by an Edftor of Farm and Dairy.
taken up in the regular rotation of crops, Forty to 50 acres of thle is sown each spring with grains, such as oats, barley and roots, and nearly all is seeded with red clover. This seedtig ts done at the rate of elght to 10 lbs . to the acre.

When anked it he coneldered this amount enough, Mr, Somers sald, "We never have any trouble in getting a eateh of clover in this district. The reason that I do not now alsike or timothy is that I only take the one crop of clover and then riow the land." Surely this is enough evidence of the fertility of this farm, and the likelfhood of it ever being depleted as long tis this pracice is followed. Enough corn is grown to fill a good sized sill. From 25 to 40 head of cattle are usually kept.

The Herd History.
The value of a man's herd is ofter increased many times by a small amount of omelal testing. Antmals that were supposed to be just ordinary cows sometimes become famous by this means. Families will leap Into popularity in a very short time through the recond of one Individual. A very striking example of this is found in the herd of Mr. Somers.

About 11 years ago Mr. Somers' father boukht a pure bred Holitefn calf named Nora Darling. She was allowed to grow and develop like
rounding counties, Ten aeres is kept under alfalfa, renewed only when the stand makes it necessary to do so. Ten to 12 acres is in standing bush, and the balance of the farm, excepting yards, buildings and four aeres of orchard, is all other calves kept on the farm, with no spectat attention given her until she freshened the first time. From this time on she was placet with the best cows kept on the place and given the same care and feed as they received. All of her heifer calves have been retained in the herd, and under the system practised have grown to be good large cows of good dairy type.
Four years ago, when Mr. Somers took over the manage ment of his farm from his father, the cows were to be sold. But he had worked with them, and in a sense, growin up with them. Speaking of them, he eays: "I could not see the wisdom of letting them 50 oft tae place." Consequently he made arrangements for keeping them, borrowing money for this purpose. His netgators laughed at him because of this, contending that their bigh claes grades were as valuable as his pure breds for producing millt for factory purposes. He renolved, however to stay with his cows, as he felt le had thinge in in fit condition to do so with funtice to himself and his animals.
In the meantime a heifer had been sold to Mr .
w. H. Cherry, of Haldimand county. Mr. Cherry exhibited this heifer at the Winter Fair at Geelph in 1913, necuring second place in the Dairy Test, After coming home from the show, Mr, Cherry eatered her in the Record of Merit teat, and she made over 99 lhe . in seven days. "This opened my eyes," as Mr. Somers put it, "and I became auxious to see what some of the others would do under almilar conditions," Accordingly, atier a phort and hurried preparation, several of the cows on the farm were entered in the teat and made a combined average record of 26.08 lbs. butter in seven days.
In commenting upon this test work, Mr. Somers sald: "I had no experience in the work, and consequently was ignorant of many little schemes for keeping cows up to the hmit of food consumption and milling capacity. 1 was guided around
some disastrous roclica, however, by the lindity advice of the supersisor, Mr. ©eo. Hunter, who gave me every ar-istance possible, I am yatiofied that my cows, with better preparation and more efficient handling, would have given better returns."

A High Producing Family.
The story of this herd would be'very Incomplete without drawing attention to the fauily relationwhipe in it, there telos somethins very Intereating and inspiring about them. The outatanding cow in the farifly is the one purchased, Nora Darling, who is the foundation cow of the whole herd. Her danghter, Reseline, is the them of Mand Snowball, who took the eecond place at the Winter Fair mentioned above, and she in turn is the dam of a Jr. two-year-old, who in the
(Concluded on page 9.)

## All Around the Farm

## Sumner Suggestions From Various Sources

## Building a Concrete Tank

AGOOD mixture for a concrete tank may be made of one part Portland cement, two parts of clean, coarse sand, and four parts of screened gravel or crushed rock. Where nelther gravel nor crushed rock is avallable, use one part of cement to three of sand. If less cement is used than the amount given, the misture will not wear.
The foundation of the tank should be nhout slx inches thlek, enough so that there will be no danger of heavipg from frost. It should be reinforced with woven wire. The atdes may be retrforced the same as the foundation, care being taken that the roinforcement is placed near the outside wall. Only wire or iron of good quality should be used, as rusted material only fills upace ind toes not retnforce. There shoutd be continuous reinforcement around corners. Where the wire or other material lape, the laps should be several inches.
The form for the tank should be so made as not to erack the cement when taken apart. After the forms are removed, the inside of the tank may be waterproofed by apolying a coat of concrete paste made of pure cement and water mixed to the connlstency of cream.

## The Farmer and Parcel Post

## By J. A. Macdonald, Kings Co., P.E.I.

RURAL delfvery and parcel-post are two of the greatent boons the farmers have ever aoquired. So far parcel-poat is only a halt mesaure by reason of the exorbitant rates charged. Its inaugumation has, I understand, made little difference in the receipts of its competitors-the express companies. Farmers have never been educated by the postal authoritien to utilize the parcel-post, for though high, it is considerably cheaper than exprese. For instance, I have been able to get a setting of eggs shlpped from the Experimental Farm, Ottawa, for 28c, while the express charges on the same would have been 70 cents.
Though the parcel-post is only a halt metasure, I have been able to utilize it very frequently to my advantage. To-day, for example, I received a pair of plowing back-bands from a mall arder house in this province, and last week sent for and received quite a miecellaneous order, includIng overalls, bridle maps collar-pads, and severnl urticles needed for plowing,
I patronize the mall order house through the parcelpost for its great convenience. I am eight milles from town, and the roads this apring have been in the worst condition I have ever seen them, but these unueually bad roads do not pre-
vent the mall-arrier from making his dally rounds. I have the advantage of shopping at home. I look through the catalogue at my letsure, choose the artlcles I need, jot them down, enclose a blank chegui is I do not know what the postage may be, p the letter in my box, and in a.couple or three days the articles, with the bill, are dellvered in the bou at my gate. What greater convenience than that could a man look fory Golng to town means expenee, and often unneceseary expanse. When the distance it efght miles, as it is in my case, the horne needs two

## A Few Building Hints

## FLOORS AND gutrers.

Place layse of conerete 4 to 5 inches thick on well drained clnders or gravel and have the sub-base 6 Inches thick.

All stall floors should have a slope of one. quarter tineh to the foet. Feeding floors 1 tinch to so foet.
Gutters should be a Inches deep nekt to cow, 4 inches deep on the alley side and is inches to 18 inches wide. Finish atl floore with a wooden trowel so that concrete will with a wooden trowel so that concrete will of animala stipping on it.

## stalls.

Have dairy cow stalls 3 teet 6 inches wide, 4 feet 8 inches in length from edge of manger to gutter. Single horse stalls should be 5 feet wide and double horse stalls of feet 6 inches to 8 feet. The average length for horse stalls to 7 feet from edge of manger to end of stall. Manger for cow and horse stalls should be 2 feet 6 inches to 3 foet wide. Box atalls for hospital or -maternity are beet If A feet by 10 feet or tis teat by to teet Feed alleys should be at least three feet. wide, witer it possible.

## sila.

Bulld to feed 30 pounda a day to sach head. Make the height two and one-haff to three times the diameter, Bulid small diameter and high rather than wide and low. Provide foed for at least 180 days.
A sillo tix30 foet will hold of cons and feed 15 to 30 cows 180 days.
A sille $14 \times 35$ feet will hold its tons and reed 35 to se cowe 180 daye.
A sillo $14 \times 42$ feet will hold 188 tons and reed 45 to so cows tro days.
A sitto $16 \times 4$ te feet will hold 230 tons and feed 60 to 70 cows 180 days.
extra feads of oate. The day is lost when something might be done at home. When in town many things not very badty needed will probably be purchased. I think farmers might, with ado vantage, patronize the parcel-post more than they do.

## Farmers As Mechanics <br> By E. L. McCaskey.

IHe "Jack-oftall-trades and muster of none," bas been the butt of many an Ignorant jest. 1 confees to being somewhat of a "Jack-of all-trader" myself, aside from betng a fairly good farmer. I am proud of my abllity as a tinter. has ensbled me to make many improvements around my farm and aome that I could not otherwise have had Our cemont atablea, utter car riers and water syitem were all inltalled without outelde aselstance. Wages for masons and plumbers come bigh, and many of our conveni. encee we might not have had except for my readiness with teols.
Manufacturers are coming to realize that farmers ean do things for themselves. I was recently looking through a catalogue of plumbers* supplies. It advised elty folke to have a plumber to install the hpating and water systems which the firm had for sale. To its farmer customers, It offered a set of plumbing tools at a moderate eharge. This, I consider, a compliment to the fermer, I have friends who have put in their own bathrooms, thelr own furnaces and carpentering. Pupering and painting are also commonly done by home labor.
I suppose it never oceurred th the most of Farm and Dairy readern that it is quite an accomplishmont to handle the tarm implements of to-day. Most of them are complleated machines, such as In city trades, the lads serve an apprenticeship to learn their management.
My object in writing these paragraphe is two-fold-lirat, to encourage my brother farmers to go ahead with improvements which they have not found possible of accomplishment through their own intor, and, seconfly, to show the vatue of a farnt training as explaining why our boys do 50 well in all other occupations into which they enter. One of the greatest values of a farm tralning is that it instills the idea into our youngsteri that they can to thinge.

## Raising the Spring Colt <br> By J. S. Montgomery.

IT is a poor policy to sikimp the colt's feed. The feed and care a colt gets the firet year and a halt of its life determinen largely what it will be at maturity. If the mare is worked, keep the colt in a cool, dark stall during the day. For th first few weeks after foaling, bring the mare to the bam and atlow the colt to strekta. Do this in the middite of the forenoon, as well as at moritige, noon and night.
Encourage the colt to eat early, preferably feelling erashed oate and bran in equal parts Let him have alfalta and clover hay as soon as he will eat it. Experience shows that a ration of corn and alfalfa gives better reapits than a ration of eorn and timothy or pratrie hay.
The beet ratlon for the colt during the summer Is good paatare graas. Maximem growth copen with a feeding of some grain with the pasture grame. Hormes and colts fo the pasture ahould be given ready access to freeh, cool, clean water and to salt. A colt stunted early never fully recovers. A little attention to the feet of the colt will greatly repay by better feet and legs in the mature horse. The heels should be trimmed, for they soon become high, narrow and rolled under, and the toes should not be allowed to grow abnor mally long.

## Fight th, Flies <br> By C. W. Howard.

NOW the the time to begin our fight against the house-fly. From 95 to 98 per cent. of our files freed in horse manures so the obvious remedy is to prevent the collection of quantities of stable litter which might aet as fiy nurneries. Thelr nest favertte breeding place th the kftchet
gurbage and pri
easily eliminatec
Begin early by feld. See that left around the the plle. Then f the manure ont gummer. Thie farmer, but with be eo. Arranger iffeld for this: prineiple that $n$
feld is of more feld is of more that during mum may be sulficien
the egg to the pile for this lent thag place.
in villages an possible to rem


A Dite
The excenife pr
as never before
a lean-to or a structed which ered with fine wi to receive the $m$ remove it. Flies place their egeg room, so the Files feed upon found in privies, attracted by the the house. To p ried to our food, to make the out that flies cannot The have window
Thetto in ranitatlon" both house.

## Sweet

I:Sweet Clover some cases it cases it is a From the standpo get rid of. It prod towing. That Is, turbed two summe Even along wad does not spread int a meadow that is As a farm crop
trges. Its vigoro tions makes it ea for adding nitrog hey ond pasture. vell so clover is think that it has a too.
As a cover crop
ards for the purpo ards for the purpo of the best and ex worthy of scme
garbage and privies. Theae iatter cap be more assily eliminated than the former.
Begin early by removing all stable litter to the field. See that no small pockets of manure are left around the stable yard after the removal of the pile. Then follow this cleaning up by hauling the manure onto the field eacb day, during the

# Cooperative Marketing of Eggs and Poultry 

## How 200 Leeds County Farmers Put Their Poultry Business on a Sound Coo, erative Basis

## WM. J. WEBSTER, SECRETARY LANSDOWNE FARMERS' CLUB

summer. Thie may seem like a burden to the farmer, but with a little forethought, it need not be so. Arrangements can be made for the use of a field for this purpose, and it is a well-known principle that manure placed at once upon the field is of more value as plant food Remember that during summer weather a period of five days may be sufficlent to produce a brood of files from the egg to the adult, so that manure left in a pille for this length of time will serve as a breeding place.
fin villages and smait towns, where it is nnt possible to remove the stable litter every day,


A Ditehing Machine About Ready to Begin Operations.
The excenalve precipitation of last summer and this ipring have demonatrated
is pever before the need of efficient systems of tile drainage in many partis of Entern Conada.

L
ANSDOWNE FARMERS' CLUB is mainly an egg circle in operation. Its scope, however, is extended to include- the marketing of poultry as well as of eggs. The latter branch of work, like the egg circle, aims to eliminate what is not best in quality and no poor grade poaltry is bandled. The products marketed by the Lanedowne Club are egg elfcle eggs, guaranteed crate-fed chickens, and fat hens.
Particular attention is bieng paid to breeding with a view to improving the appearance and quality of both poultry and eggs. This work was begun two years ago by the clubs supplying pure bred eggs to members for hatching at an advance of six cents per dozen above prices paid for ordinary eggs. The result of th's has been that where three years ago there were onty some half dozen pure bred flocks in the vieinIty, at the present time 95 per cent. of the flocks are largely pure bred. Egge are graded as "spectal" and "extra." Eggs grading "special" must be from pure bred flocks and be uniform both in size and color. They command one cent.
a lean-to or a room in the etable may be constructed which is dark and has ventilators covered with fine wire screening. This can be used to receive the manure until ft is convenlent to remove it. Flies will not enter a dark room to place their eggs and cannot enter a fly-proot room, so the manure is safe from infection in such places.
Files feed upon flth, such as sputum and that found in privies, but they are also very strongly attracted by the odors of coolding and food in the house. To prevent infection from being carried to our food, every precaution shouht be used to make the outbuildings perfectly sanitary so that flies cannot enter, and the houses should also have windows and doors fitted with sereens. The motto in fly control should be, "Better sanitation" both in the bernyard and about the thouse.

## Sweet Clover Not a Weed

## $I^{s}$

 8 Sweet Clover a weed or a farm crop? In some cases it may be a weed but in other cases it is a farm crop and a valuable one. From the standpoint of a weed, it is not hard to get rid of. It produces seed the second year after sowing. That is, the plant has to be left undisturbed two summers before it can produce seed. Even along wad sides thick with sweet clover, it does not spread into grain fielde. It will work into 4 meadow that is left a yood many years.As a farm crop sweet clover has many advantages. Its vigorous growth under severe conditions makes it eapecially valuable on poor land for adding nitrogen and hynitis, ais well as for hay and pasture. On good soll other crops do vell, so clover is not needel Some, howryer, think that it has a miesion und $r$ surh conditions, too.
As a cover crop, or for plowing under in orchards tor the purpose of adding fertility, it is one of the best and escelled by fevr. This legume is vorthy of scme consideration.
a dozen more than others. After June 1, non-fertile eggs will be pald for at a premium of one cent a dozen.
With regard to poultry, broilers are largely marketed in July at one and one-half and two pounds, All other birds must be well fattened before belng marketed, whether marketed IIve of dressed. The chickens of the heavy birds are all crate-fattened and killed cooperatively by a man employed for that purpose. The old birds are ehlpped alive, being sradedt at thme of purchase. Fat ones are shipped at once, and the others put in and fed unth fit for the best market. From 400 to 1,000 birds were in feeding constantly during the season fust past, from September to March.

## Cooperation Satisfactory.

The cooperative work of the Lansdiowne Club has proved very satisfactory in each particular line undertaken. The gathering of eggs at the
farm and the introduction of eash payment are both very agreeable factors. The elimination of bad eges and the consequent enhanced value of good eggs in the warm summer and fall months is ennouraging to those who desire proper value. The selling of fall and winter eggs direct to the retall trade is another gain secured. We are independent of the commission man, who reaps a good proft during the season when the supply is scarce and markets are easily man pulated.

Grading poultry and payment according to quality, feeding and finishing so as to command the best price; crate-fattening and killing of chickens: cooperative marketing, which places us in touch with both retaller and packer; the possibilities of cooperation in dletributing the output over a lengthy season; all these have worked to the advantage of the cooperator.

## Large Business Done.

Our egg circle was organized in connection with the club four years ago, and after struggling through a serles of failures, began serious work during the second year of its existence. That year, 1913, 7,552 dozen egge and 474 lbs , dreased chickens were sold. The following year, 1914, the output of eggs was increased to 16,000 dozen, and poultry amounting to $\$ 2,254.73$ was sold. During the past ypar, 38,777 dozen of egra and poultry amounting to almost $\$ 4,000$ were sold.
The present season we appear to be working with the united endorsation of the whole community. We are entirely lacking a competitor in connection with the poultry end of the business, and with the eggs practically all who are within reach of this shipping point are egg circle members. Our membership is close to 200 , and in the neigbborhood of 100 cases weekly are being shipped.

The grade in the road determines the size of load that can be pulled over it. A good way to learn the effect of grade is to rite a bicycte on the level and up different grades. It will very quickly be found out how grades affect the pull. One argument mgainst going around a hill is that It makes the distance greater. This is not always the case. The bail of a pall' is no longer when laying down than when standing up. One bad grade in a road may easily double the cost of hauling over the road. The work of grading down a hill-usually costs more than to buy the land required to go around it.


The Pioneers of All Countries Have. Found Oxen to Be a Cheap and Efficient Source of Farin
Power-Photo on a Homestead noar Battleford, Sask,

## Where Holsteirs Caa Stand Improving <br> \section*{Some Frank and Friendly Curticisons of the Breed By One of Its Friends}

Hso acoustomed to hearing thetr ating certain breed characteristica, all breed spoken of in the thetr beef breeds have practically the same flatteritag language that some of them type. It there ts a utility type the have almost come to regard their "A couple of years ago I brought a black and white favorites as faultiess, sood Holsteln cow before the con If any of chese over-cenfldent ones course of Ayratire men at Macdonald To.e present at the annual banquet college. If 1 changed the head and of the Holsteln Association in Toroa- the color of this cow would she not to a couple of years ago, thetr fond make a good Ayrshire? 1 asked the Ahock. Prot. H Barton, of a rude assembled breeders and they did not College spotioe oo the subfect of wase disagree; another evideace of the fects in the Holstela Breed," of "De- tendency towards the same type the mont frtendty spirtt possible and the best cows of cilferent breeds., all for the good of the breed he aut Hined a few chameteriatios in Holsteins that are not desirable, and to which the breeders may well give heed. Recently In goiny thirourh an old file an editor of Farm and Dalry came across notes taken on that ad drass, and as these notes have not previously been publighed they are ven herewich as follows.
The following ts a synopsis of the addrese of Prof. Barton.
"There is often danger in over-oonfilence," sald Prof. Barton. "An honift suryey of the bustness we are in in often worth while. I occupy the unique position of being both a breeder, a student of the breed and an investigator. I have unusual oppor tunittles to hear what people have to silig about Holsteins. 1 eame here more as a reporter than as a critic ty breed that it thave oriticlsms of your tive side. In recent short course and
ther extenston whrt we have helur the optalon of the avernge man on the varlouis breeds of cattle. These oplatons are not worth as much as the opinions of men in the older lands, as there is much Ignorance in the average mind in regard to stock, but these opintons must be heeded.
"The frat charge that I bave often heard againat the Holsteln is that it is
heavier grades at equally favorable prices
-EADV vo LAY-pynE AEPMALT
ROOFING
Quickly and Easily Laid without provieus exporience and requiring as expert help
CAN BE LAID OVER OLD SHINCLES DURABLE, WEATHERPROOF FIRE-RESISTING WRITh FOR PREE sAMPLE The Halliday Company Lemited
pactony bistaisurons
HAMILTON,
CANADA

hand to feed. This criticism is easily answered and generally to the satils. faction of both parties.

The Low Test Problem.
"The second charge is not so eastly answered. It is that the Holatein gives poor milk. This idea is promin. ont fa the minds of people sonerally and Holstein breeders have to meet if as the breed is laboring under a handicap because of the low test milk "We Holsteln breeders, for I am a breeder, have been following a course that is poorly balanced. We have been following sthort perfod testa which have had a wonderful Influence in the development of the breed, but In regard to fat content, the results of these tests have not been satistactory Were I buying Hotstefns today would pay miore attention to the high per cent. of that in the yearly record than to the best short time test.
"Our surplas stock must be our ad-
vance agents for finding us new vance agents for finding us new
curtopers. If we sell stock on their customers. It we seil stock on their
whort time records and they make a poor yearly showing, thls atock may Work our business much injury. We breeders should be the first to recognize defects and remedy them.

The Type of the Holstein.
"A few words or type. For a long time I wha unable to briag myself to
Holstetins. As I came to know more Holsteine, As
really good breeders and to get their judement of Holeteta type I tound that the beet of them were working on a reaacoable and utility plan, If there is anything in type at all then I beHeve that all dairy breeds should be gradually golag towards a siven poftet. If, there is a desirable type for the producing Holstefn. Why ahould not Ayvihire is Jorney This is true in the case of the beef breeds. Ellimin.

## Breediness.

High-gradeFertilizen Are Best Values
The average cost of Nitrogen in 600 samples of "complete" fertilizers was $66 \%$ higher than the cost of Nitrogen in

## Nitrate of Soda

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25 Madison Avenue, New York Cuy

## HYLO SILO

Sweet Fresh Ensiliage
down to tho insot forknit THEHMOQ SLO Har moter She is plainer than her yother, and though now well up in trom, we have had no good helfera this piain daugbter of "We

We, al Canadlan stockmen are not thorough enough. The Old Country mareedinens- Is not the diferance of breediness. Is not the difference between a class of Conadian and lmported Clydes at Gueliph or any other Bhow, a difference in 'breediness,' the Cenadian's lacklog in this rempect? Importance of size.
"Good aize is a factor for whatch we must wrort In a consus tatron of cows in several herds it was found
that cows in the first class oroducine that cows in the first clase producing
$12,000 \mathrm{lbs}$, of milk weighed $1,200 \mathrm{lbs}$ $12,000 \mathrm{lbs}$, of milk weighed $1,200 \mathrm{lbs}$,
or more. Cows producing $6,000 \mathrm{lbs}$ or more. Cows producing $6,000 \mathrm{rbs}$. or less, numbered only four heavy
cows in the bunch, and these tended cows in the bunch, and these tended to be beety. Slze, however, is desitr able only as we got other things in keeplag. If we get beyond a certala IImit, sixe is a distinet disadrantage if other factors are not developed in qual proportion.
"When we come to discuss unlform ty we are due for a range of variation In any breed. Progresalve breeders are weeders and Holstelns cau be criticised more than most breeds for lack of weeding to uniformity. I be lieve that the chase for records contributes to the fract that the Holstein breed camnot afford an object lesson in miformity. Many herds are a cohglomerate mixture that have as many ypes and families as there are individuals. Uniform results in such a herd are imposalite.

How Breeds Are Made.
"If we study the methods of the breeders who have made breeds we find that they collected togsther the otrains that worked best together, beonuse they are alike and have worked from that foundation. I am not argufing for in-breeding, but for the confining of breeding operations closer thas ts asual.
"In our herd at Macdonald collese we have Ayruhilres that are fully the equal of any in Canada. When we came to breed within the herd we toon discovered that certalin cows were producines producers. To-day we have the same number of Ayrshires, but onty onequarter as mauy families. We have umitormity of blood and type that is hard to equal in this oconatry. This we consider good breeding.

As a people we can charsoterise (Conttaued on page 2.)

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in $\mathrm{tan}, \mathrm{N} . \mathrm{S}$.

WHITE AND COLUMBIA WYANDOTTES, LIGHT BRAHMAS, B michael K. Boyer, Box 23, Hammonton


Thay ares PRUVEM roofing-bot an experiment Ver eacily livid, Jolntarre angug and elose autingthay himply ensmot leat. They
 inghtinigy of apaik.
Write for internting, Bookles.

 "Menaile" Colinges, ete.
Metallic Reofing Co, Lattod Toronte Wlanipet ise

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## Poultry Pointers

No matter how good the stock may be, if they have not the proper care they will be no better than mongrels. Poultry on the farm, as a rule, recelves indifferent treatment.
What does "Care" mean? It means a close watch on the business, provides every comfort, prevents disease by keeping the premises perfectly clean, never overcrowds and keeps the fowls busy, sorts out the drones and gives the workers better attention. In short, eare means usithg business principles in every sense of the word The farmer is not giving proper care When he allows hls fowls to roost on trees, in wagon sheds, or on board fences; the proper care is not given if the appetites and conditions of the fowls are not studied.
System and regularity play an important part in care; economy in la bor, the saving of steps, the saving of muscle, the saving of time-all are important. Shiftlessness causes dear ex perlence. There is a proft in anythins We take care of. Success is accord-
ing to manarement. Profits depend upon the quality and quantity of brain work put in the enterprise.
If a man performs his work in a mechanical way, he will not be apt to do it well. There are too many who go by "luck." They do not stop to think. They do not take notice of the ilttle matters. They are always hurry ing to get done. Too many assume too much work.
The poultryman who follows a practical system does not complain of the work. System is a great labor saver in all occupations, and especially so in raiping poultry, The man who has no regular method causes himsell extra and unnecessary work, and it always "seems to pile up on him," at an inopportune time.
A poultry writer recommends that those living near hotels should arrange for the garbage, stating that in it there is such a variety of food that will be of untold value to hens. The fact is that anything the average rentaurant will refuse to jumble up for their customers is questionable food for fowls or hogs. In summer thls refuse, when removed once a day, is unspeakably foul, and the one who removes or handies it needs the nose of a seavent er. Fermented and decaying refuse from such places is anngerous, even to handle. In this "garbage" are often found plekles, sour things, rotten pofound plekles, sour things, rotten po-
tatoes, tainted meat and other stuffeven including coffee grounde-fit only for a manare pile. We cannot be too careful in what we feed our stock. Fowls should have perfectly sound feed, or they will not enjoy perfectly sound health.

Watch the chicks closely and mark the ones making the most satisfactory growfh. Select the ones that are plump, full-breasted and in good proportion. One will not care to keep those that grow leggy and have thin breasts.

## A Formalin Selling Record

TDITOR, Farm and Dairy.-1 have
just got the returns in for our - county and find that one of our Napanee druggists has sold over 50 gallons of formalin in bulk and two gross of formalin in sealed pint bottles, making a total of 688 lbs , of formalin for the apring of 1916, for treating grain for amut. I belleve this to be a record for Ontario--G. B. Curan, Lempex and Addington, Ont.


## GEO.KEITH \& SONS SEEDS <br> 124 KING ST. E TORONTO



Order Your Day Old Chicks Now
We have the best strain of Bred-to-Lay S. C. White Leghoras on the market. They will fill the egg basket next. winter.

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STRATFORD, ONTARIO

"It has put an end to a lot of hard work and solved milking problem

Mr, Brove wethay


GILSCN | Essmge |
| :---: |
| cutricis | Highest quality silage. I less

power, power, Large capacity. Elevate to urusual heigits, Built
to last. Tlirow, blow wad bift. LIGHT RUNNING





 - E Engiot will ran them
CILSON MFO.



## BOOKS

Write for our catalogue of farm



## HORTICULTLRE

Strawberries Demand Misisture $T$ HE strawberry is about ninety per cent, water. Only os a soil retentive to molature or where the molisture is he!d by dust or straw mulch, can it bo expected that the size Will hold up throughout the season. The plant and fruit respond readily to irrigation water, and experiments in dicate that when water is applicd judiciously and at no time in excess, the yield is markedly increased, and the loss from decay or damaged fruit from damp conditions is practically neglighble; but, on the other hand, surplus water must be removed. Drainage is
essential. Standing water is weakening to the plants, and when continued destroys them completely.

## How to Know Mushrooms <br> By W. W. Robbins.

$\mathrm{T}^{\mathrm{T}}$ is difficult to lay down any hard and fast rules that can be used to distinguish between edible and polsonous muahrooms. In some cases, a speeies that may be harmless for one individual may cause serious digestive distrurbances in another. There is, however, one group of mushrooms that is deadty and quite polsonous. This is the group of Amanitas. The deadly


Is It A Gamble?

$\sqrt{3}^{2}$the derk ages it used to be suid that a lifo insurence policy wis a gamble in which the assursd had to "die to wia." What are the fecte?

If the husbend whe is uningured dies, the tives, they will be provided for. The riek is it taken lives, they will be provided for. The riek is taken
by the wito whers there is no fasurance. She by the wito whers there iss no insurnnce.
gambles on the chance of her humbend Hirig.

The lifo company, for a premium which has been ornctly calculated, can take the rak because it insurses large numbers of whem oaly a certiain portion dio in any one year. Where a policy is taken, theretore, -
The company runs no rlak; the aseured runs no risk; his wift and childrea escape the riak. Thus lifo insurance is a myetem that eliminates -
Mutuat LH: pollicies, beeldee protecting the family, are good hivestments, The splendid profits oarned by the Compaay go to the policyholders exclusively, thare being no stockhoiders to ahare in the profits of a mutual compeny.
Life, Limiled Lije and Endowment Policies.

## The Mutual Life

## Assurance Company of Canada Waterloo, Ontario

Amanitad have whitg ellis, a ring abbut talking about the "Safoty Firsth pre the atem just beneath the cap, and a cautions of the raliroads.
cup or scales at the toase of the stem.
cup or scales at the base of the stem. Do not place any reliance in the many popular and traditional tests of poisonous or edible qualities. These
tents are cintrety worthicils. The Iti. tents are entirety worthicus. The fir coloration of a silver spoon, staking in watef, or brilliant coloration are no Indications of elther poisonous or edible quplities. Furthermore, the notion that poisonous mushrooms can be rendered haumless by boilling in water and then wathing thoroughty in cold water is erronsous.
One can easily become farnillar with few edlble kinds of mushrooms. There are many of these springing up in our lawns, door-yards, and along fences. One may feel absolutely safe n using all those mushroom, having black gills whith dissolve with age into an inky maes. These, of course must be aaten before turning black, but usually ser aral stages of ripening will be found in the same clump or group of ladividuals, so that identifleation can be made. Among these black gill species are the "shaggy mane," with a more or less bell-shaped, areamy-white cap which becomes shaggy, and the "Inky-cap," growing Ie dense clusters. These two ane both common in lawns, gardens, etc., from apring to autumn and are among the he' of our edible forma
Tie deadly mushrooms are those whic. possess the following three chatacters: (1) white gills: (2) a ring on the stem Just beneath the cap: and (3) a cup or scales at the base of the stem.

Fruit Prospects for 1916

T
Des Fruit Branch of the Dominion
Department of Agriculture has in siving the prospeots for truit in alt parte of the Dominion and in sman arections of the United States. Prospects are bright for a full emop, bota of trees and small frults. Apples peaches and pears promise exception ally heavy crops, though a continua tion of the wet weather may taduce the development of senb, whiteh would result in a heavy June drop The first Oatario strawberries should be on tie market before the middle of June and special efforts are being made to prevent a repetition of the ovanfucing of berry cretes, of considerable amount of whioh was in siderable amount
evidence last year.

There is a danger that apple grow. ers may give up sprayigg in tife be Het thet there is not going to be a good demand for apples. The Depart ment, however, is pointing eut that dast year and 1914 also, prices for No. 1 fruit ware quite safisfactory and during the early spring months of thls year the demand could not be supplied. There is no demand for interior trult.

## Safety First

L. Thompson, Peterboro Co., Ont.

W$]_{\text {HKIN }}$ driving home from the elty lant market day I arrived at the level cronsing juat on the edge of the elty at the same time as a passing train. The gates were lowered to keep the path clear for the on-coming locomotive and I had to wast. Had it not been for those gates I might have attempted to get over ahead of the trala with serious results to myself. Whife waiting for the train to pass I noticed these words painted on the gates, "Safety First." As I was driving past our own little shipping polnt I noticed the same words placed prominently on the alde of the station house. I suppose the
same words are placed prominently same words are placed prominently
along the railway tracks from one along the railway tracks from one
end of Ganada to the other. I notice that our magasines, too, have been

I had juart fnished reading sach magazine article recently and picked up the newspaper when tire first thin hat itrualk my eye was the heading "Farmer Gored by a Bull" The bote under the heading went on to explaip that the bull was considered "perfect ly quiet." Wouldn't it have been good idea to have had "slatety First," painted on the bull stall? it migh have inducod the farmer to lead thas brill out on a staff rather this by line.
Other instances came to my mind. One of my nelgthors was smothered oo death when he went down tato silo, although he knew well that he lowered a iighted lantern into the silo first the extinction of the light would thave indicated the presence of dangerous gases. A nelghbor's was carried up on the hay fork last surmmer and almost killed. A reason. able amount of cantion would havi prevented this catastrophe also.
How often farm trapydes auch as have mentioned are caused by lack of "Satety First" precautions.
is uny one class of men to the ther try, outside of those engaged in the most daagerous of ocoupations such as rallroading, who should pay heed to the "Bafety First" motto it is the Carmer, partfoularly the farmer whith a "perfeetly quiet bull."

Prof. Zavitz Honored
 HW services that have been rendgred to Canattan ngrfoulture by Prot. C. A, Zavits, of the Ogtario Agriculturai College through his work in coudueting experiments in tield crops and originating new and superior varieties, has been cosnlised by the Univeraity of Toroa. to, which conterred upon thim the honorary degree of Doctor of Sclence Prof. Zavitz was presented by Dr C. James, who commented upon great work he had done and referred to dilm as one of the recognized plant breeders of the agricultural world.

## Wayside Gleanings

By W. Q. Orvil, Field Repre sentative, Farm and Dairy.

## Keeping the Bull

WIFas viaiting Nortols Co., Ont Ihad a ohat with the proprietor of Cornlah Ifodge Fherm and, of oourne, the conversation taraed to the discussina of dairy catlle. He sasd that bls advice to sll breeders would be to keep the sire at least until bls deughters hed been proven. "I sold my bull Vida's Woodlay Barcastic for beet," he aald, "and a short time afterward put six of the first of his deughters to freshen under test. Th gave me an average record of 418 lbs . of milk and 17.9 lba . butter in seven days. It would have paid me in maay ways to have ept thris bull and used hfm, or to h ept sold him to sorne other breeder. is value of sire is in direot prop dow to the millking qualities and type of tha offapifag."
Shall $\mathrm{V}_{\mathrm{a}}$ Cultivate After Rai
I hear a reat many farmers asking this questlua this year, eopeciaty when there has been a downpour just after they have finlshed sowing a flel of grain. A fow days sgo I had a converastion with a ming from the Central Experimental Farm and aak od him ooncerniag the advisibility of harrowing land, espectally if it were Ilable to bake, providing the grain had been reoently sowa. He told ma that the harrowing would not burt the gruin and would break tip the soll eo as to prevent bakling. Thls would olrectr the eraporation of motature.

Gate Posts

TcKE appearas greatly im the device Ilfust anylige cut. By i of each side of
be dispensed wit be dispensed wits
ip vell, the posts ar least three fe holes, a trench is witch keeps the
from crowing t from crowding cared is place. hall a dozen stran wife are placed wisted to tigatea Before the inin
completed, it is -b wire on the poss The wire cable ed yast sufficient

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main in an uprigt mag of the trench pleted. leaving th below the surface.

## Testing and $\mathrm{Br}_{\mathrm{r}}$

(Continued recent test cond made a record of similarity running four generations, example of the ol
like begets like. $A$ fine bunch of seen in a box st mart was made owner smiled. my calves at all, been experimen by feeding them
We hive theen the milk and iner til now they are
whey. This, no d whey. This, no a
time for them, Hs time for them, us
better when they, to it, but they do alves are gettin rourhage the whey, and despit atisfaction
thrifty.
An inexpensive
ane that commend ane that commend highly, was a loos
hitted on II, hang wer each $\mathrm{cow}^{\prime}$ s h printed in large name of the cow, and the full name Nr. Somers said many people keep different animals they could read Pc

The main soure trm are the cow 1615 are kept, aI
cheese factory, T cheese factory. T
the good ones that lieides the mille,

Gate Posts Without Braces.

$T^{4}$TE appearance of the fence that surrounds the home grounds is greatly improved by means of the device Illustrated in the accompanying cut. By it the unsightly braces ill rech slde of the garden gate may he dispensed with. In order to stand wipll, the posts should be put down si least three feet. Instead of post ales, a trench is dug so that the brace rilch heeps the bottoms of the posts from crowding together, may be secared in place. After this is done, the trench is flled up about half way and hilf it dozeth strands of galvanized iron wire are placed around the posts anu wisfed to tighten in the ordinary way, Before the filling of the trezedh is campleted, it is best to put the woven wre on the posis and to tighten it. The wire cable can then be tightened just sufficient to balence the pull of the wire fence, and the posts will re

main in an upright position. The fill ing of the trench may then be completed, leaving the cathe a few incher thar bro mertae

Teting and Breeding His Way to Success
(Continued From Page 3.)
recent test conducted on the farm, made a record of nearly 21 lbs , of butlet in seven days. There is a marked similarity running through each of the four generations, giving a wonderful example of the old breedcig law that like begets like.
$A$ fine bunch of young ealveg were seen in a box stall. When some remark was made about them, their owner smiled. "They do not look like my calves at all," he said. "I have been experimenting with this bunch by feeding them pasteurized whey. We have been gradually decreasing the milk and increasing the whey, until now they are receiving nothing but Whey. This, no doubt, is the hardest time for them, us they will likely do better when they get more accustomed to it, but they do not look nearly as *ell as our calves usually do." These calves are getting oil cake and any roukhage they will, eat I Pside the roukiage they will, eat and despite Mr. Soners' dis.
whey, and natifaction, were looking falrls thrifty.
An inexpensive and novel idea, and one that commended itselt to me very hilehly, was a hoard with a carobourd nailed on it, hanging from the celling oret each cow's head. On this board, oret each cow's head. On this board,
printed in large type, were the full name of the cow, the date if her birth, and the foll name of her dam and sire. Mr. Somers maid regarding this, "8o many people keep asking me about the different animals and their breeding, that I invented this method so that they could read for themselves,"

A Diveraified Farm.
The main sources of profit on this farm are the cows, of which from 10 1015 are kept, and the milk sent to cheese factory. This factory is one of the good ones that run the entire year.
Beeldes the milk,


A Freat an! Weed Mower starts to Cat the Moweat the Horses Move

## The Frost and Wood Mower Will Not Fail You

WHY is the Frost \& Wood Mower Hght in draft? We use only the finest, tougheat
materials that money will buy, eone materials that money will buy, consequently parts need not to so heavy. In addition we use expenaive-to-motke, high grade roller-hearings wherever friction might occur Heav- brass bushings prevent wear and keep drter- shafts in absolute aligmment. Cutter bar ir quick control and goes on cutting when ed to clear an obatruotion, saving


Internal g e a r
drive means big. quick power.

THE Frost \& Wood Internal Drivel Gear in a splendid engineering feat. The blg driving gear wheel engages on the inside with the cutter-bar operating pinlon, both wheels travel in the same direction, there is no "pashing apart." snapped eogs, lost power or loet time In starting cutting. This naves tremendously In starting cutting. Thia naves tremendously
on wear and euts repair bills to practically on wear and cuts repair bills to practically
nothing. Levers are easily worked. It is no exagareration to say a boy or girl cañ operate this machine.

## Frost and Wood Rakes

Here is an all-steel, practically In fastructible rake good for many years of hardest service. Automatic dumping trip acte Instantaneously. The teeth have high clearance and do not drag the top of the windrow. Dumps at slight pressure on foot pedal. Teeth are espacially fine tem. pered steel, every tooth carefully tested before it leaves our factory. The Frost a Wood Rake will stand any tent and has thousands of friends all over Canada.


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Sold in Wattorn
Ontario and West-
ern Canada by:

The Cockshutt Plow Co. Limited Brantford, Oat.
able revenue from the surplus stock sold. One or two colts from high bred Ciydesdale mares are usually sold every year, and also from 50 to 75 hogs, which are fed upon the whey and sur plus grain. Last, but by no means least, are the profits from a four-acre apple orchard. Mr. Somers is a member of the Norfolk County Fruit Grow ers' Assoclation, and has sold hls apples throush this association for number of years. He sprays and trims hls orchard every year, and consequently always has a quallty of apples which really sell at the highest prices.

Mr. Somers gives it as his opinion. based on experience, that It pays to get possession of a good line of stock and stay with them, using always the beat sires avallable, and growing the young stock in the best possible manner. It also pays to keep as many oth * lines of gereral farming as can be .ande profitable, still lreeping the one special line as the maln source of revenue. If I could ansume the role of prophet, I would say that the future holds much in ntore for the dairyman whose dairy herd and farming method have been the subject of this aketeh.

## Where Hoisteins, Can Stand lhproving

(Continuid from Page 6.)
ourselven as having been somewhat extravagant working our farms and in marketing practioe. This extravagence has extended to Holstein ofttle. I have every respect for the phenomenal cow. But for me and the average man give me the hormal creditable worker somewhat withla the capacity of the breed, and I shall be content.
"Wverything I have said has been given with the best interests of the given with the best inter
Holstein breed in vlew."

WE GUARANTEE Bvery Advertiner in Farm and Dairy. You ir you mention Farm and Dairy when writing.


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## After the War" Problems

A
 our leading economists and statesmen concerning the problems with which we will be confronted after the close of the war. It is thought that we may have to face a serious busknese depresetion and tis attendant unemployment. The close of hostitties will mean the cancellation of unflled war-orders and the release of labor hitherto engaged on them. The return of thousands of soldiers will swell the army of those looking for employment. The mittions of Burope, crushed beneath the load of taxation levied to pay off war debts, may seek to escape from the burden by emigratin! to Canada. There are many fndicatione that employment problem at

2 sertous un
Once before on this con of the war. lar to that which is expecied asa faced. At the close of the civil war the vletorious armies of the north were disbanded. Apprehenston existed as to what effeet this throng of nearly a mililon men would have oas the labor markel. The apprehensions, however, proved groundless, for the dtabanded soldters were aboorbed in a marvellous manner by the great pralrie states of the upper Miasissippi valley, which were then just opening up. The flood of returned soldiers flowed out upon thts free tand. The transitton from war to peace conditions was accomplished without upeoting the induatrial conditions of the country, and the United States was soon forging ahead ts never before in her hietory.
The condition of Canada after the war will be different from that of the United States at the close of its great struggle, in that tree land of the best quality is no longer avallable. Vacant tand, however, there is in abundance. It is eatimated that at least eight times as much land io held for speculative purposes in the three prairie provinees as is under cultivation. It this land
were made accessible to the returned soldier, released munition worker, and the impoverished immigrant, depression and unemployment would be largely averted. There would always be a way of escape open to the one under economic pressure in our industrial centres, fuet as there was during the halcyon days in which we had abundance of free land of good quality for every. body. If, on the other hand, the speculator is ${ }^{*}$ allowed to hold the larger proportion of our best land at probibitive prices, no such escape is possible for the majority of workers. The resulting situation will be as dangerous ae a boller under pressure without a safety valve.

## The Way Out

T1) provide against the possibility of a great unemployment problem following the war and to seeure a way out of the rallway muddle in which we find ourselvee is not two problems, but one. These two great questions meet on common ground, and that is the disporftion of vacant land already served by raffways and held out of use for spegulative purposes. It it is made available to the worker, so that if he toses he job in the city, he will have an opportuntty of becomtng hils own employer on the land, the safety valve is provided that will prevent a labor explosion, If the quarter sections are filled up and put to productive use, the extre trame proplded would soon put the raflways on a payiag basis. The land gueetion is at the root of both difileultiee.
To make these great areas of land avallable to the workers may require herole measures, but the serlousness of the sttuation that may arlee may demand them. People are talking of the new world we are golng to have after the war closes. To remove the burden that the war has imposed may necessitaie the removal of some of our most cherished delustons, and among them the one that rights to lands no matter hop toquired, are more sacred than human rights, If the cholce has to be made between the Industrial reign of terror that some are freely predicting and the introduction of measures to free the land from the control of speculators, the obstacles for their -removal may not prove so formidable as they may seem.

Already something has been done along this line. Britioh Columbla has passed a law which has made it impossible to hold land in that province on margin. A person who has eecured control of a tract of land by paying only a portion of the purchase price is given enough of the land to compensate him for his equity, the betance reverting to the people. In Alberta a tax has been placed on unimproved wild land, the money thus raised being used for provincial purposes. In Saskatchewan a surtax of ten dollars a puarter section is levied on unused land for municipal purposes. Last year one and a halt million dollars was ratsed in the twa provinces by means of thrse measures. The extension of the principle of land value taxation and the curtallment in any way of the privilegees of cpeculators has the effeet of making the holding of land out of use unproftable and of getting it into the hands of those who wlah to use it for productive purposes. The result would be the solution of both our labor and railway problems.

## Ocean Freight Rates

ALTHOUGH so many ships have been deatroyed ainoe the outbreak of the war it doen not appear that the ahifping intereets are loaing money on their business. On the contrary, they seem to be prospering amazingly by the war. The inerease in frelght rates from New Yurk to IAverpoot to the last two yean has been about 900 per cent, on wheat and from 400 to

500 per cent. on other foodstuffs. On other things it is sate to assume that a similar ficcresen has been effeoted. The average earnings of a
veneel is about five times what it was previom vemeel is al
to the war.
This inerease is not all necessary josses inflicted on ehipping by the enemy rise in insurance rates does not account tithe of the increased freight rates. principally to the shortage of vessele oceap carrying trade. This is accounted the loas of ships which have been sunk stroyed by the ettemy, by the commandee ships for transport purposes, and by the ment of many enemy ahips in neutral The result in that freight rates are not measured by the reat cost of transportatio by thr snxiety of the shippers for space whole busiasss to-one giggntic holdup. immedhate way out of the difficulty have been suggested. The warring nations emerge from the war with a new crop of milliom aires to which the shipping industry promises contribute more than its share.

## The Need of Lime

INnvesstigations cartied on by the onturn Agricultural College last year showed the there are many districts where the soll II badly in need of lime. Thousands of tests werf made, the results of which showed that the san face of the soll was sumfiently-acid to litmus paper, and in many cases it sary to go down several feet in order sofl sufficiently rich in lime to cause an efferres cence when treated with an actl.
As a reealt of the investigations, steps wem taken to brtag to the attention of the farmers of the province the necesaity of applying othor calcareous material to their soils. pointed out that much more lime is required in a soll than thet which it necetranty for plant toot supply. Lime is a soll amendment, that is, ite presence is reguired to provide suitable cond thons for plant growth. No soll which is aeld its reaction can prodnce maximum crops. Interesting to note that as a result of the educe tlonal work carrled on, good results are alreaty becoming manifest. The increasing use of lini basle slag and other calcareous materials, abow elearly that the farmers are alfve to the situation. Reports from many districts throughout Ontario indicate that the farmers are taking hold of the situation and applying calcium in some other fn an endeavor to brtag the soll back the alkall condition that is so negessary if murt mum crops sre to be secured.

## Two Opinions on Cooperation

"T
 organization, wherever men have the
right apirit to carry it out. Under that plan any business undertaking ts managed by commiltee, every man has one vote and only ost vote; and everyone gets profits according to whit he sells or buys or supplles. It develops fat vidual reaponsibility, and has a moral as well au a finanelal value over any other plan."-Theodor Roosevelt.
"The purchasing power of the people-the po Ats on the things you must buy and sell-is yout most valuable posienslon. You can, if you wili cooperate with your own nelgthors, establiah asi run your own business, and thereby save to rowr self and them this most valuable poasession; you can by refusing to do so, continue as ith the past, bullding up the unjuat corporations at 'swollen fortunes' of the 'special privileged tor by continuing to patronise their system."-m Cooperator.

## Farm Management

## Returns From Work Horses

 A. H. Benton, Minnesota.0NE of the most frequent sources sufficient return from work horses.

Have you satisfled yourself on the following points?
Do your horaes earn enough to pay for their feed and care, and enough to meet the interest, depreciation, and other expenses, as harness costs and Bhoelng?
It costs $\$ 100$ annually to keep the average horse, but this horse works only a little more than three hours each working day. This makes the horse labor cost approximately 10 cents an hour.
Do you handle the horse labor on your tarm so that the annual cost of keeping your horses is less than the nverage, or no that the number of hours worked is greater? Both methods will reduce the cost of horse la. bor, but the latter offers by far the greatest opportunity,
Can you revife your cropping system so that fewer work hiorses will be needed, or so that the work will be more possible to employ them more hours pach year?
Can you ralse colts and thus reduce the cost of keeping your horses?
Can you arrange to use your work horses for outslde work when not busy on the farm?
Can you reduce the cost of keeping each horse by feeding leas feed or cheaper feed and still give a proper ration?
Farm work done with fewer horsea means a saving of $\$ 100$ a year for each horse not needed.

## Farm Management Pointers

A$T$ the last Ottawa Whater Fatr minion Rxperlmental "Farms gave a general talk on the subject of "Firm Management." Some of the pointers that we gleaned from Mr. Grisdale's address are as foltows:
Fhum management is farm business.
We cannot alb have all the land we want, but we can run the land we have in a much better way than we the average farm 50 per the output of the average farm 60 per cent at least, land it would be proflinble, even if the labor expense is greater.
In buying land don't pay more for land than you can realize taterest on.
Many fall down fa farming hecause they have not enough working capl. tal-not enough stook, not enongh machmery, poorly equipped bullilingn, and so forth. It is posisible, however, to have too much money invested is this way, There is a happy medium that spells proft.

A good farm manager must have a knowledge of vatues. He must be able to erasp the importance of litthe things, tist he must not attend to the little thlugs to the disedrantage of the, ile things,
Whai is the profitable balance between the live atock and the foed produced on the dairy farm? I would say, carry a Httle beyond in stock what the farm will teed, The stock, of course, must be goed, and then the mall amount of foed which must to produced cas be fed prontably.
Low cost of production is the moot important consideration in farming to-day. Operntions mast be ttmely, and at least 25 per cent. of our farmers fall down hero.
Three horses ars not enough for a 100-acre hurm. At least four horses and a driver are required. We eannot work these hormes the yoar round in

T

Canada, but we can winter them very
cheaply and with good resplits to cheaply and with good results to the horse on oat hay and pulped turalpa,
with a lltele oats later phe with a ittle oats later on.
The harge machtre is the coming anachive.
Have some syytem in your farming. The man who does not follow a rotaton of crops is in a fair way to get
one-haif to two-thirds from one-haif to two-thifds from his farm of what he should.
A good tarm manager will do everything poseible in the winter time to eut dowa the work in summer.
In marketing we need to be better business men. The buying also calls
for wiadom. for wisdom.
Cooperation amongst neighbors will do much to permit the use of large
wachinery. wachinery
Heve in them to monay crops? I beHove in them to a limited extent. The oholee of crop will depend on auch circumatances as soil, locition and marikets.
Flfty hours a year of cost account. Ing would be time profltably spent. Most of our fallures are due to not knowing just where we are at. There is scarcely a farmer who is not doing something at a losa and does not
know it. know it.

## My Spring Experience

Hiram Wheeler, Prince Edward Co., Ont.
-W) Eave our spring crop in at of it. I never knew the land po hard to work. Most of our farm is with and and it got very water-loggeo with all the ralns aad the grass got a start, whith made it still harder to Work. Spealiag of the courdition of the soll, some of ours was fust of liver. It did not seom to have life ine it at all, especially in the low parts that needed draining. Part of one twhoh grass in it and lad some seem to grat it in to and I could not seem to get it fit to cow. I left it and ami going to keep it worked as best I can for a whille and later will sow buokwheat on it.
We have boen very busy drawing out manure and working on corn and root ground this last weols. If I am spared another year, 1 am going to get moat of the mamare out in the winter. Here for with our corn my nearest neighbor with our corn and roots. He kept drawing the manure all winter and, When it was so wet this spring, he of ten got a part of a day in which he could plow some of it in when his other land was not it for worling He was in a poalttou to work away at Uhat ground and now he has it in much better ahape than I can get mine. I intend getting the land in as good Ahape as possible before sowing. as I belleve extra working now pays later on.
When in towa the other day I naw a notice in the district representative'l window to the effeot that some company in the states was selling Prof Zavitu's O.A. 0 . oats finder an. other name. They are good oats all right and in a way I don't blame the states for getting them. I got some two years ago and last year they gave me a bumper crop. I had a plece of new land on which I sowed them and they did splendidly. I sold a lot for

## eed.

## Weaning Time

 Prof, W. B, Richards, N.D.A.c. CHERE seems to be a great differ ence of opinion concerniag the proper time to wean plge. Bome practice letting them wean themselves, Which is not a good practice. It hogs tre raisod for market in large numued sows of sll tendencles will be as a rule to wean the pigs when they ate about effet to 10 weelss old they are about olsht to 10 weeks old. As dams, ruin them fie a grase lot untif
## $\sqrt{ }$



Even the wheels on a Ford car cost you 60 per cent less than on the average car priced around $\$ 1000$ and under

## FIGURE IT OUT FOR YOURSELF

$\$ 12.87$-cost of new wheel on average car priced around $\$ 1000$ or less.
$\$ 5.00$-cost of new wheel on a Ford car.
\$7.87-the $60 \%$ saving secured by the Ford owner.
And this merely indicates the general saving in every item of upleep in which the Ford possesses a big advantage over any other make of car. An assembly of Ford spare partsenough to build the touring car com-plete-costs only $\$ 40$ more than the standard list price of the car, while on the average car priced around $\$ 1000$ and less a complete set of spare parts costs $\$ 941$ more than the car-over twenty times the Ford excess cost, And yet tests conducted by one of the most authoritative Government laboratories in the world have shown that the quality of Ford constructive material is actually superior to that in most of the best cars made.


FORD, ONTARIO


All ears completaly evelpped, facluiting Eloetrie hendliehts. Epulpment doee mot Inelude speodosiater.
other forage crops are ready. If the than at any other. It is not a good
litters vary considerable in age, it practice to Itters vary considerable in age, It practice to let pige get over a month will be well to inake two lots of them, old before they are castrated. an that they may be grouped accord-

## to age.

If they are weaned at this are they should be fed carefully. They will get along very weil if sdim milk is available. It not, they will not thrive us well. When skim mills is lacking, feed them a ration of two-thirde middlIngs and one-third ground oats, which has been soaked between meals. Feed the plgs three or four times a day for a few weeks after they are weaned. Bariey and some soaked oorn scatter, can be fed from the time they are over
two or three months old Wo or three months old.
The plgs ohould be castrated before they are weaned, as they recover from
the operation more readily at this age

## I Icing Charges

THE Rallways issued a new Tarif on Aprll 11th, to beoome effeo oharge for fay 15 th, incremsing the ton, thus meting $\$ 8.50$ to $\$ 3.00$ per hauling the ice, hased on the distance the car travels, ranging from $\$ 2.60$ per car for 850 miles or Iess, to $\$ 10.50$ per car for 1,450 miles. An appeal argainst this tarifi was made in behait of the frult shfppers, and on May 3rd the effective dates of the new tarifts were suspended untit further notleo, Therefore icing charges in effect last season will at least stand untl the proposed new charges are considered
by the Rallway Commiaton

## The UT

cheed of the Hitle brush sparrow, still drowsy and uncertain, but faintly her-
alding the day. Wings fluttered in the apruce and cedar thickets. From far overhead came the honking of Canada geese flying southward. And one by one the stars went out, and in the south-astern skies a gray hand reached up slowly over the forests and wiped darkness from the earth. Not until then did Phillp rise from his seat and turn his face toward camp.
He tried to throw off the feelling of oppression that still clung to him. By the time he reached camp he had partly succeeded. The fire was burn-
ing brightly again, and Jean was busy ing brightly again, and Jean was busy preparing breakfast. To his surprise ho saw Josephine etanding outside of her tent. She had fnished brushing her hair, and was plating it in a long
braid. He bad wondered how they would meet that morning. His face flushed warm as he approached her, The thrill of their kiss was still on his lips, and his heart rent the memory of it burning in his eyes as he came up. Josephine turned to greet him. She was pale and calm. There were
dark lines under her eyes, and her dqrik lines under her eyes, and her
voice was steady and without emotion as she said "Good morning." It was as if he had dreamed the thing that had passed the nieht before. There was neither glow of tenderness, of regret, nor of memory in her eyes. Her smite was wan and forced. He knew that she was callin $\delta$ upon his chivalry to forget that one moment before the door of her tent. He bowed, and sald simply:
"T'm afrald you didn't sleep well, Josephine. Did 1 disturb you when I stole out of camp?"
"I heard nothing," she repiled. "Nothing but the cries of that ter rible bird out on the lake. I'm atraid I didn't Bleep much."
The atmosphere of the camp that morning welghted Philip's heart with morniag weighted Philip's heart with a heaviness which, he could not throw
off. He performed his share of the work with Jean, and tried to talk to work with Jean, and tried to talk to
him, but Croisset would only reply to aim, but Croisset would only reply to
his modt pointed remarks. He whistied.

Ha shouted out a song back in the uimber as he cut an armful of the girl laughing, the wood piled to his chin and the axe under his arm Neither showed that they had heard him. The meal was eaten in a chilly silence that filled him with deepest foreboding: Josephine seemed at ease She talked with him when he spokg to her, but there seemed now to be a mysterlous restraint in every word that she uttered. She excused hersel before Jean and he were through, and went to her tent. A moment la Philip rose and went down to hif canoe.
In the rubber sack was the last of hils tobaceo. He was fumbling for it When his heart gave a great jump. oice had spoken softly behind him "Philip."
Slowly, unbellering, he turned. was Josephine. For the first time she had called him by his name. And yel the speaking of it seemed to put a distance between them, ror her voice was calm and without emotion, as she might have spoken to Jean.

II lay awake nearly all of the night, thinking," she sald. "It whe a terr) ble thing that we did, and I am sorry
In the quickening of her breath he saw how herolcally she was aghting to speak steadily to him,
"You can't inderstand," she resum. ed, facing him with the steadiness of despair, "You cannot understanduntil you reach Adare House. that is what I dread, the hour when you will know wat I am , and how terrible it was for me to do what did last night. If you were like most other men, I wouldn't care so much.
But you, have been different."
He replled in words which be would not dare to tave uttered a few hours before.
"And yet, back there when you first anked me to go with you as your hus bend, you knew what 1 would find at Adare House?" he asked, his volce low and tense. "You knew?"

Yes,"
Then what has produced the change that makes you fear to have me go on? ls it beraus $e^{\prime \prime}$-he leaned toward her, and his face
Was bloodlessWas bloodless"Is it because you care a litule for mer
"Becanse I re spect you, yes," voice that disap. pointed him. don't want to want you to want you into the world thinking of me as you will You have been honest with me you for what hap pened last night The fault was mine. And I have come to you now so that you will understand that, mo matter how act, I have faith and trust in you. I woukd give any. thing that last night be wiped out of our memories. That is you must not think of it and you must not tally to me any more as you have, until we reach
Adare House. And ( Coc - on pase 14)

Travel Th

"STReNGTH
according g with joy fering with joy
Through that teared that 1 left for the gran
les, but as soon les, but as soon
new there was The frat stop joy was intense we of God's apka I had enj now it was to b up, arvund and up, them in dIft inely so olose, the mountains,
reached. A Swi culded tourists, tary, helped ov
lustly, led the ox heart of the I ronderful blue-loe-bargs.
After emengh
where this glad ts purface was and blllocks, pe raging glacier we could see the by this tremend sides of the mot urough tae on, grinding, er lopking nothing could belug aecomplis Issatisfuction cannot see th
rort. Put if Ho has for un spirlt, we kuow
campliphed of complisthed of iealization. Glaclers moy laches or feet Ilves, what seems so pitiab he untodd resu is God's gloriou that potential rith ins to gle ver trivial and added that of added that of
andoring of the Thater, the thr covered peak of above, So with asmeness of pur every day.-I. H

## Litin 108

The Sec
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pletad at doath. Beripturea This view is
the Seriptures a the Seriptures a
literally, and no literally, and no
not be maintain not be maintioin fact that Paul, J writing many y y y w . were still lookit
Second Coming passages as 1st
i? Jomen 5:

## The Upward Look

## Travel Thoughts, No. 35

## Patience.

"S
TRENGTHENGD with all might, according to His glorlous power unto all patience and long sulfering with joytuiness."-CoL $1: 11$. Through that long trip 1 had often eared that 1 would have no thrills laff for the grandeur of our own Reck-
les, but as soon as I entered them, knew there was no cause for this fear. The first stop was at Glacier. My Joy was intease when 1 legrned that if woald eventually go on a glacier, and of God's wonder-pleces. In A A
anks I laad enjoyed them from afar, maks I lad enjoyed them from atar, now it was to be zear.
All that long, hard wall, up, up, th, thutnd and 'ever boulders, I could met them in different direotions, seemthe mountains. At tast our goal was reached. A Swiss gulde, axe in hand, fuided tourists, cut steps when neces ary, helped over the crevasses, and latty, led the way into a cave in the heart of the ice. Within was the wonderful blue-green coloring of the loe-bargs.
After emerging, lunch was takeh where this glacier erded in the valley, is surface was grand, with its mounds and hillectus, panky and pinnaeles, and crovaases, through which rushed the
raglag glacler streams, On all sides we could see the results accomphished by this tremendous mass of ice; the ifies of the motuntafnis swopt bare, is through the ages, slowly, so slowly, imperceptibly but surely, it had gone jn, grinding, crushing beneath.
Patience wat the leston lenrned, ts sat dooking at il. In the process nothing could be seen of what was belag accomplished. Orten our own dissatisfaction is keen, because. We
cannot see the reanlis of our own work. But if we feel it is the work He has for us and do It daily in His spirlt, we know results are being accomplished of whteh we ofn have no Claciers
Glaciers move $s 0$ Uittle, so tew faches or feet in the day, the week, our lives, what we cain do for Him seems so pitiably small, yet think of the uatold results schleved by all honest consolentious striving! Then is God's glorions power is behind all with us to glorify all work, how. ever trivial and insigaifectnt.
Then to the sense of power was added that of beauty, the ohanging coloring of the lee, the mparkling
water, the dark foresta the snowcovered peak of ML. Donald towering sbove, So with the monotomy and the sameneas of our every-day work, comes the beauty of gladness and joy of every day.-1. H. N.

## Light on Seriptural Propheey

## The Second Coming

MNY people belteve that the Socond VI Coraing spoken of in the seripdentruction of Jorusalem, and is cons-
pletad at death. Is thla borne out by the
Briptures?

This viow is a common one, but if literally, sciptures are to be taken at all not be maintidned. That Christ did not be maintianed. That Christ did
not come at Penteoost is shown by the fret that Paul, James, Petor and Johin, writing many years after Penteoost, Second Coming of Christ. Notice such passages as 1st Theusalonians $4: 15$ to t\% Jamen 5: 7; and many other sImi-
lar paskagen. That Christ did aot come in connection with the deatrue-
thon of Jerusalem has been shown by thon of Jerusalem has been shown by
the fact that such pawages as Luke the fact that such paanages as Luke
21: 27: Acts 1: 11, and other similar 21: 27; Acts 1: 11, and other similar
passages, have not yet been fulflled. The same is true of the Second Comagy of Christ at death. Death is an enemy (1st Corinthlans 15: 26). At Christ's coming we are ralsed from he dead and shout viotory over death and the grave (1st Corinthians 15: 23, 54-65). Nothlng is promised us at death except to be at reat in Paradise, but we gre promiaed all things in the resurrection, when Jerus comes. Therefore, we find Paul yearning for He did not want to be unclothed at death, but olothed upon at resurreotion. death, but clothed upon at resurreotion.
As W. E. Blackstone says, "Let any one insert death in the passages which apeak of Christ's comirg, and he will see that it will not apply. For instance, "For death shall come in the glory of his father," Mathew 16: 27. When death shall sit on the throne of his glory," Matthew 19: 28. "Hereafter, shail ye see death aitting on the right hand of power and coming in the clouds of heaven," Matihew 26: 64. FFor our conversiation is in heaven, from whence slso we look for desth," Philippians 3: 20.

## A Couple of Home-Made Labor Savers

Mrs. H. B. Macgregor, Renton, Ont.

IF you have a helpful idea, pass it
on. Having read "A Few HelpHaving read "A Few Help-
Susgeectous," some time ago zu Farm and Dairy, I feel it is my duty to. pass on one or two from my own oxperience.
The woman who cannot work all clay without sitting down, will find a low table a great convenience. Mine 5 about $215 / 2$ inches high and about the same in width and 2 feet 9 inches loag. It should be the right height to allow one's knees to fit under it
when sitting in a comfortable kitchen chair. To make this table, secure four legs about one and one-half inches in diameter and shave one eud of each down to one and one-quarter fiches. Poles will fill the bill with the bark scraped off and smoothed with a wood file Then take two square sticks about is inches Wist as long as your table is wide. Wrth
a one and one-quarter inch augur a a one and one-quarter inch augur a
hole can be made about four inches from each end for the legs and slant them so that the hottom of the len will be straight with the side of the table. The legs should also slant slightly toward the send of the table. Two pieces of inch board matched will make a suitable top for the table. fy patting in two rows of nats, it helps to brace it considerably better than one row would do. This table can be painted to match the kitchen table, aud when not in use, obe can slide it under the kitchen table, qut of the way. Such a convenient table can be used when paring fruit of vegetables, washipg dishes, ironing (if you can place it near the stove so that you can reach for a hot iron). cut out small garments and baste them up, or it can be used as a bench to stand on when house-cleaning time comes. Covered with a table cloth of a white oilcloth, it can be used for a children's dining table or play table.
Another sreat help is a portable clothes line. By its use you can hang and pin vour clothes on the line in the house and so save many cold fincers in winter time it can be made of I $x 4$ inch lumber, each six leet long. About 18 inches from the top. Dore an inch hole and fit in a strong bioce of timber, round or square. about two inches in diameter and six feet long. A similar piece is refrom the lower ends. Then. bore
gimlet hates and strong clothes line wire from one and to the other,
about 12 inches apart, until you have about 72 feet of clothes line. across each end will keep spreading apart too far an it from be lified by these sopes when ing out or into the house clothes haye had the benefiter the sumes have had the benefit of the sua and frost to whiten them, the clothes line can be carnied into the
house, and in the morning the clothes will be almost dry enough clothes This table and clothes horse
This table and clothes horse are two of the greatest labor-savers of which
I know among home-made devices.

## Brazil-Its People, Country and Happenings

How many of us are really famil lar with that great South American Republic, Brazil, the population of which comprises several dis tinct elements, a mililion odd being aboriginal Indians? The wealth of this country, we are told, is fabulous; trade is great and growing, and aitogether, Brazit is a progressive land.
Some of the most interesting tentures in connection with Brazil are unfolded in Mr. J. D. McEwen's book. entitled "Brazil-A Deseription of People, Country and Happenlings." Mr. People, Country and Happenings." Mr.
McEwen labored in the country as a McEwen labored in the country as a
missionary for 14 years, and he writes as one from the linside of things Brazillan. Besides telling of his missionary experiences, Mr. McEwen informs hits readers of the accomplishments of the nation in recent years. The varlous industries are described, the scenery is pletured, in fact, there is IIttle about the land that Mr. MCEwen does not touch upan
It will be of interest to our folks to know that Mr. McENwen's boyhood days were apent on a farm in Glengarry Co. Ont, and that shortly after his ordination, he preached at Stoulfville, near Toronto, for two or three years. His book, which is both interesting and instructive, may be secure
through Farm and Dalry, for \$1.25.

## A Novelty in Glass Baking <br> Dishes

HAVE any of our women folk invested in one of the new glass
baleing dishen that are such a aovelty at present? Whether these glass dishes add in any way to the quallty of the food that is prepared in thems, we are not prepared to say, but here are some of the reasons advanced for thelr use:
it is claimed that food, if baked in glass, ean be served in the same dish In whicft it is cooked. This means that food can be brought to the table hotter, and that one dish answers the purpose of two. Quite sound reasoning, Isn't It? Ahother point Is that we ean watch whatever is being cooked. We will thus be in a position to know when the bottom is sufficiently brown and avold against scorching. It is claimed, too, that glass baking dishes are easjer to clean than metal ones.

Even if these glass baking dishes have no superfor mertis over those of ather materlal, they should be interestIng at least, and we would sumgest that the womat who is contemplating a
new purchase might do well to try one out.

## They Never Organze

AVISFTOR was being shown over a lunatic asylum. "Do you ever
tive any bother with the-patienta?" he asked.

Ob yes, sometimes one of them will get troublesome.

What would yout to if the whole Iot got troublesome at once; if they organized a reyolt?

The warden smiled. "We. haven't any fear of that," he sald at once. "Lunatics never onganize."

## St OUBEMs <br> oximastry <br> kingston ONTARIO, <br> ARTS EDUCATION  MEDICINE <br> Duthathe we therowill bo HOMMR sTUDY <br> The Arta Course may be taken by correSte muat attend one seasion. <br> SUMMER BCHOOL oco. y. cnown JULYANDAUGUST nKgistan

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NEW TRAIN SERVICE.
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Piffective Sunday, June 4th, the Canadian Paeffic Railway will inaugurate three new trains, namely, "The Michigan Special" between Toronto Detroft and Chicago; "The Queen City" between Landon and Toronto and the "London Passenger" between Detroit and London.
"The Michigan Speoial" will leave Toronto 11.50 p.m. dafly, Galt 2.16 a.m., Woodstock 3.30 a.m., Londion $4.43 \mathrm{a} . \mathrm{m}$. , Chatham, 2.00 a a.m., arriv ing at Windeor (M.C.R. station) 8.30 $\mathrm{B} . \mathrm{m}$. Detroit (M.CR. station) 7.50 $\mathrm{a} . \mathrm{m}$., Central Time, and Chleago (M. C.R. station) 330 p.m., Central Time Note the convenient hour of depart ure, enabling passenger to spend the entire evening in Toronto, reaching Detroit at a most desirable hour in the morning. Equipment will be modern in every detall, including electric-lighted standard sleeping cars, Toronto-Detroit, and TorontoChicaga.
"The Qupen City" will leave London at $9.00 \mathrm{a} . \mathrm{m}$. dally, Woodstock $9.39 \mathrm{a} . \mathrm{m}$., Galt- $10.29 \mathrm{a} . \mathrm{m}$., arriving Toronto 12.15 pm
"The London Passenger" will leave Detroit (Fort Street Station) at $\mathbf{8 . 0 0}$ p.m. dally, Windsor (C.P.R. station) 7.40 p.m., Chatham 9.08 p.m., arriving at London $10.50 \mathrm{p} . \mathrm{m}$.
Particulars from Canadian Pacific Ticket agents, or W. B. Howard, Distriet Passenger Agent, Toronto.
ADYERTISE $\begin{aligned} & \text { in these popular col- } \\ & \text { winns, wother othora } \\ & \text { and }\end{aligned}$

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## The WilliamsPiano Co .

Limited

God's Country and the Woman (Conthnued from page 12.)
Her white tace was pathetic as she turned away from him.
"You will not want to," she finished. "After that you will fight for me simply because you are a knight among men, and because you have promised. There will not even be the promise to bind you, for I release you from that."
Philip stood silent as she left him. He knew that to follow her and to force further conver she hail said would be little less than brutal. She had given him to understand that from now on he was to hold himself toward her with greater reetraint, and the blood fuabed bot and rncomfortable into hushed hot and encomfortabie into his face how he had overstepped the bounds. ounds.
All his lite womanhood had been the most beauciful thing in the world to him. And now there was forced upon hlm the dread conviction that he had
insulted it. He did not stop to argue insulted it. He did not stop to argue that the overwheiming completeness of his love had excused him. What he thought of now was that he had
found Josephine alone, had declared found Josephine alone, had declared that love for her before he knew her
name, and had followed it up by aet name, and had followed it up by act and word which he now felt to be dislionourable. And yet, after all, would he have recalled what had happened If he could? He arked himself that question as he returned to help Jean. And he found no answer to it until they were in their canoes again ant headed up the lakc, Josephine sitting with her beck to him, her thick silken braid falling in a sinuous and sunlit rope of red gold over her shoulders. Then he knew that he would not.
Jean gave little rest that day, and by noon they had covered twenty miles of the lake-way. An hour for dinner, and they went on. At times Josephine used her paadle, and not once during the day did she sit with noon they camped on a portage fifty noon they camped on a
miles from Adare Hoase
miles from Adare House.
There were no stars or
There were no stars or moon in the eky thls night. The wind had chans ed, and came from the north. In 1 was the biting chill of the Arctic, and verhead was a gray-dun mass of racing cloud. A dozen times Jean turned his face anxiously from the fire into the north, and held wet fingera high over his head to see if in the air ras that peculiar sting by which the forest man forecasts the approach of snow.
At last he sald to Philip: "The wind will grow, M'sieur," and picked up his axe.
Philip followed with his own, and they piled about Josephine's tent a thick protection of spruce and cedar boughs. Then together they brought three or four big logs to the fire. After that Philip went into their own tent, stripped off his outer garments, and buried himself in his sleeping bag: Hor a long time he lay awake and For a long the he lay awake and
listened to the increasing wall of the listened to the increasing wail of the
wind in the tall spruce tops. It was wind in the tall spruce tops. It was
not new to him. For months he had not new to him. For months he had
fallen asleep with the thunderous fallen asleep with the thunderous
crash of fce and the screaming fury crash of ice and the screaming fury
of storm in his ears. But to-night of storm in his ears. But to-night
there was something in the nound there was something in the sound
which sunk him still deeper into the Which sunk him still deeper into the
sloom which he had found it impossible to throw off. At last he fell asleep. (To be continued.)

This is an idea worth passing on to mothers of little girls. Invite the little girls to come and bring seiseors. Eaeh child is permitted to seleet from a colored fashion plate the dress sho a colored fashion plate the dress sho
likes the best. Heads are cut from likes the best, Heads are cut from eard board. The ehild ente out a doll and tiasue paper and all sorts of odds and ends of lace are then given to themy and they proeeed to make a doll and dreas if.
$\qquad$

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rellows and yellows and back at her fro The difficult viaualize the It will look wl expanse of ws on a nice brigt pink, as the Without a me
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a may little pa a gay little pa
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hundred squar

Taming of Some colors, oluk, can be mixing with w
make very bea make very bea
the very neut reatment. TI elined to advi usting etther of they require v make a succes One of the $m$ in the selectio and not too da and not too da
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intensity as it In uaing the It is necessar: also the fact mastered wall
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very quietly the color sehes

Green-B
Coming the scheme for H
peared in our


## The Momentous Question of Color

MBNTION has been made in these needs be borne in mind that this is articles on house decoration of rather a pretentlous house and will the eare that should be exer- need a substantial and disniffed treatcised in the selection of colors suited ment. The woodwork downstairs to the lighting of the room and tho shodld be finished throughout with a furniture, but there is another phase of weathered finish giving a browa color color selection that is equally import-ant-the matter of the intensity of the color, the aggressiveness of it, so to peak-
Once upon a time the writer went ulte bunting, and came back fairly deafened by the greens and blues and rellows and pinks that had shouted back at her from the walls of one suite after another. with a slightly greenish cast.

The difficulty for the amnteur is to vauallze the amall sample of color as It will look when spread over a great expanse of wall. So wher the cotur card is lald before her she pounces upon a nice bright bit of green or blue or pink, as the case may be, and says, Tithout a moment's healtation, "I'II have that." And "that," which was a gay IIttle patch of color in a sample half an jnch by an inch and a half, iterally shrleks when lald onto several hundred square feet of watt space.

Taming of Bolsterous Colors.
Some colors, such as green, tan and piuk, can be tamed successfully by mixing with white, and this subJued make very beautiful walls, and all but he very neutral shades require this reatment. The writer would be inAlnod to advise the mmateur rignfnst using elther blue or red on walls, as hey require very skillful handling to make a successful room.
One of the moat trgent matters then In the selection of a color is that it should be sufficiently soft and subdued, and not too dark in tone. Remember hint cotor seemis to gither depth and ntensity as it Increases in quallty.
In uaing the flat plain wall finlahes is necessary to take into account tiso the fact that on the ordtatry nlastered wall the effect of the calor fill not be softened by texture, an it rould be if applled over a woven qurlc anch as burlap or on a rousth Antshed plaster, whitch is another reas son why colors should be much greyed before they are given the place of honor on our walls.
And what is Irue of the wall In repect of quietness of color is even more urgently the case in remard to he woodwork, wbleh should blend very entetty and unobtrustvely fnto the color scheme.

Green-Brown Woodwork.
Coming then to the decorative Come to then docorative north and east rooms. The woodwork ncheme for fouse No. 7, which ap, should be finlshed in white or oream
peared in our issue of May 25, it wil enamel.

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## The Better the Roads The Better for You-

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was to use water as a binder. But a water-bound macadam wo out zutekty under the pryimg wtran of the attomobile drvink wheen
and the horses hoofs. Yon know and the horses hoofer Yon know
how that etrain toosing the jur-
face, srindi it into elouds of duist, make, gryas heavy mud, iouds of duat, road full of holes:
"Tarrla-X." In the place of wator, maked a purphaing pince of wator,
trating, plastic, and water, Deper: The frit cost of making a tarvia.
 but the saving in maintenanct more than payat this differenee. So Tarvia const you nothing?
"Tarvla-A" is practically a thin "Tarvia-X," used for recouting the surface of a macendem road matready greatiy to the ifto of the road. it
keop the road dastless, mnooth, figrta-3 in a much more widelybpplitable presorvative. It is ap. pulckily into the road, and yet yroms enoumh to bind the surfice parlolen fosether into a mudless, Tarvin- durable surface. ofters the lowest cost of road matnteranoe yet inyented. It oin be yued effeotively for ropaling and preserving macadam poadis under varying conditions of
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## CIRCULATION DEPARTMENT

Farm and Dalry
Peterboro, Ont,

## Cuckoos

TWO species of cuckoos are common in the United States east of the Great Plains, the yellowbllied cuckoo ( 0 g .23 ) and the blackbilled cuckoo, and in the west a relative of the yellow-bill, the California cuckoo, ranges from Colorado and Texas to the Pacinic coast. Whlle the two specles are quite distinct, the food habits of the yellow-bill and the blackbill do not greatly differ, and their economic atatus is practically the same.
Examination of 155 stomachs ha shown that thesp ipecies are much siven to eating caterpillars, and, unlike most birds, do not reject those covered with hair. In fact, cuckoos eat so many hairy caterptilars that the hairs pierce the inner lining of the stomach and remain there, so that when the stomach is opened it appears to be lined with a thin coat of fur
An examination of the stomachs of 46 black-billed cuckoos, taken during the summer months, showed the remains of 906 caterpillars, 44 beetles, 96 grass-hoppers, 100 sawflies, 30 stinkbuga and 15 splders. In all probability more individuals than these were represented, but their remains were too badty broken for recognition. Moat of the caterpillars were hairy, and many of them belong to a genus that lives in colonies and feods on the leaves of trees, including the apple ree. One stomach was flled with larvae of a caterpillar belonging to the same genus at the tent caterplliar, and possibly to that apecies. Other larvae were those of large moths, for which the bird seems to have a special fondness. The beetles were for the most part click beetles and weevils, including a few May beetles. The sawfies were contalned in two stomachs, one of which held no less than 60 in the larval stage.
Of the yellow-billed cuckoo, 109 stomachs (collected from May to October) were examined. They contained


1,865 catempmars, 93 beetles, 242 grase hoppers, 37 sawflles, 69 bugs, 6 files, and 86 spiders. As in the case of the black-billed cuokoo, most of the cater pillars belonged to hairy species, and many of them were of large size. One stomach contained 250 American tent
caterpillars: another 217 fall webcaterpillars: another 217 fall web-
worms. The beetles were distributed worms. The beetles were distributed
among several families, adl more of among several families, all more of
less harmful to agriculture. In thi less harmful to agriculture In the anme stomich which contained the tato beetles: in another were thred goldemith beetles, and remains of sey. eral other large beetles. Besides the

ordinary grasshoppers were several katydidr and three erickets. The sawAlies were in the larval stage, in whica that resemble caterpillars so closely that they are commonly called false caterpillars by entomologista. bugs consisted of stinkbugs and elca. das, or tog-day harvest files, with the single excention of one wheel bug Which wail the only useful insect eaten.

## The Makers' Corner

Butter and Cheese Makers are In vited to aend oontributions fo this department, to ath questiont on mattera relating to eheaes making,
and to suggest subjecto for diacus:-
olon.

Pepsin Supplanting Rennet

AWrsconsin cheese firm, in a letter to the Trade Bulletin, cheese making in that state, owing io the use of pepsin instead of rennet, It cosgulates the milk better, it is of it coaguiates the milk better, it is of
uniform strength, and the test of the whey shows that there is less butter fat and solids in the whey. The price of pepsin is very mueh cheaper.
They have cheese on hand made with pepein thes are four to six weeks old, and the curing process seems to be identical. The tactories are using about 38 to $1-2$ ounce of pepsin dis. solved fin Warm water at about 90 degrees temperature, then emptied into a bueket of water and put into the milk the same as they have always done with rennet. The use of pepsin will materially relleve the situation on Wiil materially relieve the situation on believe that in the future pepsin will be used Instead of rennet.

Improving Cheese on the Island
 in P. E. I. this spring that our might be, and does not fetch the prive in the market that it might or should. The cheese-makera are coming in for a good deat of the blame, ts was shown by correspondence in the local papers this spring. The cheesemakers will have to do better this summer. There is now talk of Heencing both factories and cheese-makers, and this would certalnly be a good thing, as it seems to worls out well in other places.
In a letter received from Mr. Frank Herns, Becy. Dairymen's Assoclation, Weateria Ontario, by Mr. Harvey Mitchell, Bupt. Dairy Divislon, P. E

The EASI Separator
That is a pailly proven to buy the stor to try ngent, where and astisfy of the spind ion of the $b$ machine hom jen desire. per how in oll does the groase."
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Anat the Oliteh-Mhas a muncle eaveri Watel the ariot sot the boud up to fali spopd witiont malt-

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cheese. mill. cheese. milk. $\begin{array}{llll}15.34 & \$ 1.21 & 14.40 & \$ 1.15\end{array}$ $\begin{array}{llll}15.17 & 1.21 \% & 14.90 & 1.10\end{array}$ As Mr. Mitehell atates, "There should not be this difference of practically one cent per pound in average price in tavor of the Weatern Ontarlo factorles,".. Evidently pur cheesemakers will have to wake up if the good name of P. I2. L. cheese is to bu mefntritred. J. A. M., Finge Co., P. 1. I.

## Better Bodied Butter

## By P. H. Kieffor.

THE people who buy the higher grades of butter are people who are famillar with the quality of food. They apprectate butter that will restst warm temperature and will hold its shape because it has a good body. The trants of the consumer should be closely studied by the producer, and when they desire butter of a particular texture, color or salt, the producer should immediately fall in. with the euggestion as though he were as individual tryfng to increase his trade by eatering to their demands.
The sooner that the amall creameries Whtch are recefving good raw material awaken to this fact the better It will be for them. If we are going to accept thls excessive overrun as one of the good qualttles fin buttermaking, and let It be recosnised next to flavor, we should then change the system of scoring, and instead of having the texture or bedr follow flavor, we shoald have overrun follow flavor, then to texture, color and package. This, to me, would be ridiculous, for the nimpte renson that the consumer does not want any more water and salt in the butter than ia necessary and he wants a good body. He is the final fudse ant must be ptotised.-Toxiract from Address.

## Veterinary Depariment

Cow Cives Bloody Milk
HAVE a two-year-old Aymhtire theifer
that sfivea bioody milk from one teat. while the otheri me all fight, She fil apparontly in good hentoh, as ithe is pever etoc and milwhe gives her usual
ampount of milli-m. C . W., Vlotorle Co.,
Ont

Give one ounce tincture of iron in a pint of cold water as a drench dafly until blood ceases to appear. It is dueto weakness or rupture of some of the amall blood veseels of the udder. In most canes it yields to treatinent, but. most cases it ylelds to treatinent, but is liabl
cause.

Abscesses, Etc
have a pure-bred-Holstein cow,
due to caive this month, due to caive this month. In Feb-
ruary, she had a hump corne on ber left side, juat ahead of udder, it and whes hesied the Iump still rematno. I minde A banainge whith a tin piote full of holes over the lump, and it keops it buck, but the ipot heate and gota
nore. Whait oni I do for It? Would it be wian to breed her arpain or beet har if she pulla through ethis time all right?
(2) I ateo hove a eplendia helfer, is cannot got hor with call. I have bred hor feveral tumes. She pames connildernbieblood cach time when in hest, whether berved or not, What treatruent should (1) This la an abscess. It should be

## Given to Quaker Oats Users



## Here Are Two Coupons FREE

Dozens of Premiums are offered in each package of Quaker Oats. Valuable thinga like Jewelry, Aluminum Cooking Utensils and Silverware.

Every 10c Packege of Junker Onts contalns a coupon. Every 25 c package two cuupons. You can pay for the premiums with coupons only, or with coupons plus a small sum of money.
This is Our Method for making Quaker Onts known. We induce people to try it, and ita fiavor and richness keep them as users forever. For Quaker Oats is made of just the big, plump grains-just the choicest one-third of choice oats.

## Dominion Pattern Silverware

The Tableware we pleture ir made by the Oneida Community: It is their famons Par Plate, with the best nickel base. The wears the best nickel base. The wearo
ing qualities are guaranteed by the makers and by us.
This pattern - the Dominion Pattern-is made exclunively for us, It closely resembles Old Eogttah Stertlig patterni, You never saw a more exquisite denign.

## Pay

## In Coupons

The Ten Spoon Is given for 10 coupons, or for 2 coulpons and 10 c .
TheCerealSpoon Is given for 10 coupons, or 2 coupons pons, or
and 10 c .

The Table Spoon is given for 20 coupons, of for 3 coupons and 20 c . The Forlt-a medium fork-is tiven for 20 coupons, or 5 coupons and 200 .
The Knile-a medium knife-is fiven tor 30 coupons, or 6 conpons and 25 c .

## Two are Free

Cut out the coupon in this ad. It tiken the place of
two of the Quaker Oats coupons. Onth coupons: Then sach loc package has a coupon-
ench 25 package has each toopackagetas
two. Buy Quaker
Onte and get them. Bend them to ur with the coupon we priat here, and get if fall set of this silver ware free. We send it by post prepaid.

## The Quaker Oats company

Peterborough, Ont.

(asso)
lanced freely and the eavity then In Ontarlo, farma will respond to aushed out three times daily, unul more eultivation. The great need, hoaled, with one of the coal tar anti- however, in better cultivation, and this septics. There is no reasoa why she ean only be done through horse maEhould not be bred agala. chinery, Large machinery is not (2) When next in oestrum, oll hands adaptable to small tracts of land. We and arm, insert hand throuph vulve can only keep one team of horses on and vagine untll the ingers reach the a 50 -acre farm, white three horses with neck of the womb. Then, with a rotary much heavier machinery will cultimotion of the finger, dilate the pals. Yate 100 aeres more profitably On sage into the womb until the finger the amsil farm, too, there is too great will emter readily. In some canes the a proportion of the capital locked up use of a special instrument by in veter in bulidingi. Larger farms are genfnarlan is neconsary, Breed in an hour arally more prontable farma.- genafter operating.

# MORE GREAM THAN YOU EVER GOT BEFORE 

The Magret Will Givel fou This Service for 50 Years

## A Clean Skimmer

FREE Demonstration OWN DAIRY

## Highest Cash Prices Paid For <br> MOO Hides, Calfikins, Honehides, Sheeptins. Write

H. A. PERRY, phone P. O. Bex 894, Peterbero, Ontarie
 The moet noticeable change on the drowed about two and one-talle eonts. centa, Wxport demand hat





 The to The. MILL FEEDS.
Priees on mull feeds have taken another Arop thas wek. bran noik beins Ni. 26.5

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 HORSE

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## Market Review and Forecast

 Receipts of horses have fat in off considerabliy durins the pait iwo weoks, Pricen are still fair, but horsell are not being offered and buyera will not purchase unlens assured of a sumfient numbuyers are not evuring many horses, draughte are quoted, 1,450 lis and up. Ward, ${ }^{5}$ to 8 years ofd and sin The; ${ }^{5}$ to 8 years old and sound. $\$ 140$ \$180. DAIRY PRODUCE.
The demand from Bnatish importers for Canadian creamory butter has been frm this pant week, and exportere in have been larger of cool air epace on vesens to nill ports hnd been obrained.
At Montreni a fair amount of bosinem. At Montrend a fair anmount of buninem Mood lock demand for supplies. On the
 creamery prints finah mode, are going at



WM, SAAAKEVES SALE.

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 eide and bldaing wail oriak nidod woather conditions provailed. A number
 anung these batres Gordon Goodernem,
 Orangoville, or seven mature onwy note tive 2 ind 3 yoary odda nodd for 11100 or
at averase of $\$ 2 z 0$ each. The followin an averuse of "al antraids seling for for ing
is n liot of
of over: Dokot. $1100 . \mathrm{W}$. H, Mather, Weoton Jowe Cornotia Poach, sioo, Gordon GoodFird Dyani: Bunery calamily Princous


 Enainy Culamiey Posch, \$300, R H Relds; Jewor Woetrond Poech wigs, 3 .
 Waton. Rountree,
 veld A fil7.50, Rabt Wivon, Enily

 amire, Pine Grove.

THE HET LOO HERD AT
 purchased Dr. Harwoot bent in Hoircinh, expects to have them in hif
own bara by Monday, June 5 . The ford has been torted for toberouto itio and hora condition.
Fairmont Holsteins_
 One in somet ready for tervion ima every inch a athow bull. All from
tented Dams. Prices reasonable terfod Damis, Prices roasonable
and termato guit purchasert.
PETER S. ARBOQAST, and Piverio

AYRBHILE RECORDS.
 A coming inve guatithed in the Record asercomance yearly teat:
 58 m (four yoar olda gave $0,358 \mathrm{lbs}$. milk,
 nith tho your chle gave 7,530 tha, millk, Average for the 770 cows and heifor, Averuge per cont. of dast, h.s por cent.

## Postal Card Reports <br> Corrdepondence Invited.

## OXFORD COUNTV, ONT.

Woongrook, May 31 -it is very fine to-day, but vory wot in generat. We its and night. mpring work 15 very far bohind mome in finct, bove not startad of Cork whl bo very late if this ldind of woother continues. The hay erop it fooching The apoling zrain that is wheat in Cooiks Ane. Pousturas ane that is mproute kround ls mo wet that the cows trample more than to wot tot Cown wro milking dred for mill with ters conth a hundred WELLAND COUNTY, ONT.
brimaerurg, May 30 .-The weathor hore is very ohangsabie and there fon rin hept aseding hackuard day, which has dications that another year wit moe bot Orie milik dolivered at Bridgaburs, Fort people whit to bay milk of sitadiard quality regarding buttor fat. -G . I. R

For sale, both sexes, two months old. These are from-the best straina of the breed the sally and Herthotere tribes. Write
J.F. CASSIDY, Centreville, Ont.

## If Your Herd Requires



## LAKESIDE AYRSHIRES

 Performance Dams. Write for catalogue.

Proprletor:
OEO. H. MONTGOMERY,
Managor:
Dominion Express Biddo., Montreah.
D. MEARTHUR Philitpsburg, Que.

## Seventh Annual <br> Toronto FatStockShow

will be held at

## Union Stock Yards Toronto

 DECEMBER 8th and 9th, 1916
## For further particulars write

C. F. TOPPING, Secretary, Union Stock Yards, Toronto

RIVERSIDE HOLSTETNS For Sale, Chotce Young Buak, aired by
 temmes brod to "King." J. W, RICHARDSON, CALEMEDONIA, ONT

## 18 HOLSTEIN BULLS

Grandosna of "King Segis. Pontiac," "Rag Apple Korndyke seh," and ptherk.


## FOR SALE BULL CALF

## Six Weeks OId, Sired by MAX ECHO CHAMPION

 Full Brother MAY ECHO SYLVIA ${ }^{105}$ LRE, MLK In 7 daye Out of an R.O.P. cow, with atmost 12,000 lbs. mulk as a two-year.old, and aimoot 18,000 ibs. last year under ordinary farm conditions. Thits old, and aimost 18,000 bes, last year under ordinary farm conditions. This EROY RISEBROUGH, NEWTONBROO

## HAY BAY HOLSTEINS

 plon senion two-jear-old for malk production og.a the in ong dayy, 636.3 dhy to Hay Deto Syivia, Workris Compupion-152 ibs, mulik in one a hait brower
 other salvoo from high-weord dams. For prions, breedings, and photo, L. F, BOBART
R. R. No. 3, NAPANEE, ONT.

Lakeview Stock Farm, Bronte, Ont. The Mome AE Dutechand Colantion



KORNGOLD STOCK AND DAIRY FARM Improved Eaglinh Yarkhiren, ectuer mex, all agea. Choleo J. MCCALPIN breeding age.

WANTED int pingoan Hit: andymity Nomer nalizilatien
$\qquad$ 7 daya.


35 AUCTION SALE 35 HEAD OF OL HEAD PURE-BRED HOLSTEINS

## a mussos soco rame ansmon ort.

 WENESDAY, JUNE 14, 1916

Myrue Dekol Wayne, aver 20 iba baiter
I davi. Doastan of Minnte



 THOMAS IRVING, Auotioneer.

## Wanter-...Calif Rennets

TO THE GANADLAN PUBLIC:
We are in the market for large ganatition of Domeatio Cuir Ronnets, prepared for shipment by blowing and drying or in the green atato eut open and packed in sult, Butchern ind ravarere wiil ind it pronteble to
 nets are a non-edibite by-prodict: there fif no tarifi on them, and we pay fretshit charged on all shluments. Cirgnines. giving the moest approved methods of handing reninets in elther the try or falt form win be sent on request.

Yours truty,
CHR. HANSEN'S LABORATORY INC.
LITTLE FALLS, N.Y., U.S.A.
MANUFACTURERS OF
Chr. Hansen's Danish Rennet Extract, Danloh Eutter Cotor and Danish Cheese Color, inctic Ferment Culture for rlpening Cream In Butter Makfor Farm Cheese Making.

Auto Tongue Truck on Deering and McCormick Binders SELF-STEERING REATURE
The binder is purposely thrown out of square in this illustration in order to mhowe clearly the steering action of the tongue trick wheels,
When the outer end of ${ }^{2}$ binder platform starts to hang back, it polis the tongue truck toward the grain.
Any movement of this tongue truck toward the grain tams the truck wheels in the opposite direction and at so great an angle that they automatically steer the binder back to its prope. square cutting, position, with the horses moving steadily straight aliead.
The truck wheels turn faster than the tongue as shown by the dotted liness

## A Gain Worth Making

WTH the new auto tongue truck, Deering and McCormick 8 -foot binders cut a full 8 -foot swath. That means a quicker, easier har-vest-a saving of time when time is worth money. The driver's work is easier, too; on the straightaway because the horses are not crowded into the standing grain; and at the corners because the binder turns a natural square corner.

The wheels of this new auto tongue truck are fitted with removable dust proof bushings equipped with hard oil cups. This construy dion does away with the expense of buying a new whys every time a bearing wears out. The new auto tong e truck is only one of the important improvements on t/ese binder. For instance compare the widec, ztrong, deep-lugged steet main wheels witi those on other machines; and compare also the arrangement for keeping cawvases running true, which make them last so mueb longer.
Decidedly these are the binders to buy. See the I HC local agent or write the bearest branch house for full information about their good features.

International Harrester Company of Canada, Itd. bramch houses



