

A study in Black and White


THE LISTER GRINDER|

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are in use on thousands of ©Canadian Farms
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## THE LISTER GRINDER

## Built in Canada and designed especially for the Canadian Farmers' use.

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Through four years of the greatest struggle civilization has knowa, British skill. British patience and British workmanship have proved to be a combination against which the greatest efforts of Germ ony ware unavailing. The British manufacturer owes his world-wide reputation to the quality of material and the high standard of workmanship in his goods. "Britishjmade" means "well made."

## R. A. LISTER \& COMPANY, (Canada) Limited WINNIPEG

We Welcome Practical Progreasive Id ,
Trade Increases the wealth and glory of a

## \& RURAETHME

## A Venture in Live-Stock Prophecy

## My Estimate of the Outlook for <br>  applied to the future of yet when such to ness in a country like Canada the undertock busimaarcely be called \& venture for there laling can

 it that is uncertain. Wo all bellove in the futer of Canadian Agriculture. We all know in the future must continue to progress as a preem that Canada cultural country. No one disputes aminently agriTherefore, we know that the tre these facts. mast for all time continue to flourish for bueiness breeding and feeding is the foundation tor live atock progressive agriculture is bellded. What which dilocuss, then, is "the Outlook for What we shall Lsoking over the past and attempting Bresder." Into the future the student of the live stook to peer tion is compelied to conclude that bright ofin situa. in store for the breeder of good stoek thingia are trands and stays whith his business. It never payder be an in-and-outer In any legitimate businessys to in and stay in and from the beginiang leass, Go lag, is a safe motto for the average Cangiliad, don't of to-day. There ts not a doubt but the live stockbusiness will have to the former business will have, in the feuture as the live stock the past, periods of depresston but these whas had in
be followed as they be followed as they alwayn have beea by simallar
periods of "boom times." Every periods of "Boom times." Every business similar
ups and downs and the tive stock breeder ups and downs and the live stock breeder has its
juct to obanging man in many another ceeupation. On the of the bowever, prospects were never so bright for the breeder of highelasg stook and no brigeder for theuld
be satisfied with anything but the best be satisfied with anything but the best.
Why are we led to belleve that the Canadian
breocler hise gench good business in Many are the reasons. When everyore for him? been talking war let us inst see what effect or has Is likely to have. Almost famise prifcect have war many months prevalled for table pricos have for products of a high order. Breeding stock and dairy in great demand. Breeders, looking ack has been raalise that some day prices are bound toad, fully to a certain extent, but they fonow bound to drop tions have depleted Europe of hew that war condi to swech a degree that America must beeding stock for large numbers of foundation must be looked to the very near future. Up to the end of stock in the decrease in live stock in France alone last year to $2,599,000$ head of cattle, $6,238,000$ sheep amounted Now hogs. In normal times France and 2,869 , tourteen milion cattle, nearly seven million ples ad about sixteen million sheep. Nearly pilion pis of her cattle are gone, away over one-third ovenfith and much more than onethlrd of her sheep pigs, tiun's two million cattle and one and oneep. Bellion pifs are gone. Russla is practically hate milSerbia's miliion cattle and million ples starving. sith neariy four mifilion sheep have been together and shaghtered. Rumania is stripped been stolen tio Onited Kingdom has suffered, America are consuming dafry products and we in at the usual rate, Great Britaln products and meat ting less than halt the normal supply Trance are getthat when the war clouds clear away This means portation facilities are available away and transto call upou America for more ment and is sure ducta for talle use, and undoubtedity for dairy prothok of all clarses to rebulld her home breeding Not only has the war affected the home supplies. poducts and meat in the warring nationes of rillk this bave suffered also. We read of hons, but newmany towns of neutral countrifes. Denmark, the reat bacon hog producer has omiy. Denraark, the $x$ her usual holdings of hreeding a small fraction trice are practising coneervation to stave of starve.
the and a it goes.

Im Canada and the United States, under increased bulld up greater herds and has been impossible to prevalled and high prices, lacks. High prices have years, tend to increased slaughter. over a perjod of before the war the United Stater. For instance, 000,000 libs. of beef a year to Eurapent about 21 , alone, she exported over $73,000,000$ He. Last April been goling very short of butter, bhs. Europe has products. I need not go burther cheese and milk Readers will need on the fo further along this line. dairy products and meat must be trat demand for to come. Herds and foat must be great for years day. Years are necessary cannot be rebullt in a breeders of the necessary, and while the Hve stock deavor to increase there putting forth every enmarkets wHI ever bo hungry breeding stock the big The ultimate end of all for more meat and milk. products or the butcher's breeding effort is dairy products will ahways have ack. Demand for these mand for breeding stock an effect upon the de. of breeding stock slock. At present our numbers Can they do so and meet the inceasing appreolably, in the very near future? Ne drmands from Furope Some there are, vegetarlane Mkely.
about the changed tastes of Derhaps, who prate have been forcect upon the peopie, tastes which prices for tije protuete of the war and war They say that poople have learned to for ineat.

## 

ma
mites and will continue, and that the demand for sense! Dd cheese and meat will be finjured. Nonseven years in thever see a man who had spent seen a strawhe frozen north where he had never first he got out to consume this luscious fruit when And I don't beliere where it was procurable? I have. more than will those ho enfoyed the berries any subatitutes enjoy a retura to sweet, wholesome on ter, clean mill, nouriming cheese, julcy staek, buin and tooth, deliclous hams and bacon, and sweo a great reactlog lef lamb. There is thtiely sweet have thetr all on, and onoe people teel that they can have their ail of their favorite dishes they arey can and return to thetr most of the substitutes good-by It then to ceeir old friends.
It has not occurred to most of us that we have right here in Canada a rapidily increasing urban lers must be fed. Accerting to These clty dwelment must be fed. Accerding to our own Govern34,336 in Onts there was an actual decrease of 1912, while ontario's rural population from 1872 to increased $1,054,41$ ? war the rural population ten years just before the only 17.1 per cent, while the an Canada increased per cent. The trend of population increased 62.2 young country, is clityward and whll conen in thls so. No one should be fooled Into thinking that the cout majority of the returned soldiers that the tith the Not so. Large numbers of them will want with the returned hero, who, when pressed to agree up new land, repled: "What have prossed to take serve such a penalty?" True, those who deatrebut the vast mafority win it should be encouraged, but the vast majority win more than Ilkely choose intercourse and increased opportunity for soclal intercourse and pleasure. After many months of of comfort and amusement a few years for a place him. What is sald of Oanads and no one can blame States. What is sald of Oanada is true of the United years been growing mors in that country has for years been growing more rapldily than the producland has been able to keep smaller numbers on the is that these conditions will with. The danger marhed. Home demand will become even mere marhed. Home demands for cholce dalry products year. ar. for breeding: stock to replenish the and the demand of Europe should be an fincentlye herds and flocks purebred steck. He to the great to the breeder of the people kook. By his grear improver. To him more repld gains, By his efforts earlier maturity, economical production of mill He it is who bas bean responelbe pound two-year-old dairy records, the twelvediundredmonths bacon hog steer, the two-handred-pound alxThese could never have the lamb you like so well. sire. The world owves been without the pare-bred men who breed pure-bred stock of gratitude to the Will the day ever com stock.
be so generally owned that pere-bred stock will profit in their ownerahip? No such be no extra townshlp in old a fanm aurvey conducted in a good per cent of the Ontario it was found that only gine bered cires of the farmers were ever keeping pure dalry district in another survey of conditions in pureafty per cent of the dand that only slightly over records were using dairymen keeping dafly over datrysuen teen ming purebred sires, and the beet darymen keep milk records.' These facts seam to pepeseary before all have seon the light. Thare til
purebred live stock meet a keener demand, even from home breeders. Breeders of pure-breds are invariably buyers of pure-breds. Thers.
never be permanentilion-dollar live stock industry. The bulk of our stock are grades or scrubs. What would it be worth if the three million horses, six roillion castle, two million sheep, three million hogs million castle, twenty-etght million hens were all high-class pure-breds? Figure it for breeding or for milk and pure-breds? way you like, and you'll find that huge meac, any way added to these figures. Canada needs more high quality live stock. Good breeding stock
must be conserved. Scrubs and low-producers nust be weeded out. Young stoc, must get greater care. ness.
ness. I have not sald prices, rould hold as high as they are now. Periods of higher and lower prices are sure to follow one another, but the man who breeds the right alass of stock, dairy, meat or draft, and stays with the best job on earth for fim who loves the game, ts sure to reap satisfactory returns, in the game, is sure our Canadian breeders will lead, not lang.

## Where Fitting is Half the Battle

## Out Method of Handling and Feeding Cows Under Official Testat Llenroc Farms - W. L. Houck, Welland Co., Ont.

THE proper handing of cows during an R.O.M one breeder can claim a monopcly of knowledge. The methods that 1 will outhine article are the result of a of the methods or successin experience here at Llenand the les
roc Farms.
insure a creditable record in official test work we must first conslder thecow, the machme itself. If one is going to make a fast or fecord trip with any sort of machine he does not choose the small frail kind, but rather a strong and capable looking machine The same must bold true in selecting a cows for a creditable A.R.O. record. We must select a cow that shows a strong con stitution with a large and well developed digestive capacity. We like an animal of good sizlaving a large body or frame presenting a good spring of rib which indicates her ability to handle a large amount of feed and turn it into milk. The heat of the cow should also be carefully considered for one likes an ideal dairy head which is indicated by a large muzzte, a wide
eye.
Perhaps one of the most important parts of the cow to be considered a well developed like to coupled with well develop. ed milk veins. The udd should be well placed and have uniform quarters. Briefly speaking in selocting the animal to ing, in selecting tord, it would be wise to select one that is be wise $\begin{aligned} & \text { farly large, deep bodied, well }\end{aligned}$ nddered with a large muzzle and udde whose hair and skin are of a fine silky texture. The rea fine sinky texture. hold true
verse may, however, in some rare cases. I am reminded of a juntor twoin some rare cases, year-old that we tested ast well uddered individual. smat, poor thousht that it she would at least qualify it
 would be a surprise tot only made a nine record, but her test she had not only constitution and a great had shown a wonderful constront of food. How: ability to store away a large amount of ened that will ever, she is onalities.
have these qual

Fitting is Half the Battie.
If we expeot to test a cow we should give her the very best chance avallable to make a creatable record. It is utterly uselesa to spend chr money for an official besides considering all the extra cow reudy for the unless we are going to have our cong to me to see test. It has always been surprising oo me to see and hear of the many poor coed by the test accordare tested and necessary to all this expense why ingly. If one wants to go to all this expense why isn't it just as aensible and logical to go througa this test with a cow that is fit and ready? apimal in proper condition for the tesi, is, in my mind, over half the battle for a crearabie record. Too much stress cannot be lald upon this point of having the animal in proper shape for a test in having to get the best results. It is a good plan to begin at least threr months before the cow froshens to start getting her in the proper shape for the test. Many will say that they have difficulty, especially with the heaviest milkers. in drying them off in with the heaviesilitioning taree months before time,
but if the proper care is taken beforehand and by cutting the cow's ration down materially and milking at irregular intervais,
dificulty in drying them.
There are many different fitting rations used, but There are many dfferent itting rato lbs. L.ran, 200 the one we like best conind oats, 100 lbs, ofl meal, jbs. hominy,
salt and charcoal added.
The ground oats may be omitted with the older


Producers, but the Herd is Unknown. Careful and skilful Testing Would Double and Treble Their Value.

Photo by sallows.

must always keep is mind that it is the best to bring a cow on full test with a keen appetite, and we lever can do th prepa sation period.
Wnen

Wusiness
It is good business freshens for in many
valuable call, besides stralning and labor

Cow Calves be on hand when the cow instances you will save a relieving the cow of much mediately given a good sloppy bran mash to which has been aran mash to whed a handful of salt. added a handful of salt. mash should be luke warm. If
is also good practica to adid is also good disinfectant to the masil. as carbolto aceld. The cows are then
> ted
it 12 12 hours, one shiould be oareful to
the cow when she dellivers the cow when she dellivers
afterbirth, and it should be mediately removed so that th animal has no clance to eat it In 24 hours atter the cow some calved we begin to feed some bran and roots, and for the next three days she gets a due allow-
ance of these. On the fourth ance of these. anpears in nor. day, if the cow appars in ior.
mat condition, we start feeding mal condition, we slar a gradual the test ration making a gradua,
change from the bran to the test ohange from the bran the sevents
ration so that on the ration so that on the cow will come on her day the cow will test ration and be read full test ration should be var careful not to overfeed an an mal at this-tiris, but to jus gradually increase her ratio and not do it by quick jumps and spurts. The roots are also gradually increased, and, if ob tainable, beet pulp is used connection with the roots and grain allowance. The roughage should conslot of silage and hay altalfa hay being preferred
There are probably hundreds and hundreds of test rations used and each one belleves hils tust retion to be the best, but we must at all times
animale, but, used in the ra.ions fed to haifers, animale, but, used in the rawti of the heifer and itso in the development of the foetur. The animals aiso in the dis of this ration as they will Hick up are fed as mot reod practice to clean at cuch force a cour too paining in welght each week. A ary to keep her gad many do it, is to weigh good plain to ache week and thercly know whether your animuts caching, and if so, how much are they or not they arg the last month in the conditioning gaining. Durmg the fotr grain rations four period the cowa three times a day. We use times a day instead of three times a day. and corn as roughage alfalfa hay if obtanable we also add silage. During the final two weeks wo also ad. roots, to thelr ration and a litte more oftict attenThis has a tendency to cool them off. suth in the tion should be pald to the cow's boweis, cows should conditioning and testing periods.
be well groomed every day
We never leave our test cow out for any exercise. for it is the large amount of soft fat that one desires for teating, and if the cow has been exercised too freely she has a tendency to put on hard faly and you cannot milk this off an animal very readiy, It is the layers of soft fat that are easily miked ore. a cow. The grain ration that is fed during the preparation period is somewhat reduced during the last few weeks is order to bring the cow on test with a keen appetite. It has always been my plan to take the entire grain ration right away from a cow two or three days before she freshens substituting a little bran and oll meal for the regular ration. We coasider the cow as and use the best ration that her wo alwaya uesm to auaplahe nutritive ratio of our rations some try to keep the the best results seemed to be there nea. obtained if you do not toe roughage to make it up ration, but to rely on the rougnabe to malts may be We find in our testing that the bessi resutrated rationi cotained if we feed the highly con, therehy laying to the cows before that when the test period on soft fat on her body, the roughage to product s comes we can rely on the rougnage with a not too greater portion of the mik sloag wit fat content concentrated mixture, and derive cannot, of course from the body of the proper be obtained unless the anch cannot be sald upan shape for testing. Too mach cour cattle in the the wast importance of having your catke at leat proper shape if you

When to Forse for Record.
It takes an expertenced hand to know just whan a cow is ready to be forced for her record. 024 must carefully study the likes and disilikes of eact cow and then, when the opportunity arrives for animal to be forced along in her feed, you have animal to be forced along in hest. ready for her al ration that she likes the best, to see that you an you yourself are on the job soed. It is almost A not overcrowding her in her feed. is up and esiet safe plan to follow that, if the cow then licks in
for her feed at feeding time and then tor her feed at freeding om age 37.)
(Continued on pal

## All Great

TYPE in duction
function separabte. To simply to stat caus $n$ and effe
poub $!$ milk co poubd milk co thing else of does not occu The so-calle tions. The del pecuity to perfo depend, and cumulative re interdependene of them are ex and because of there are many ing calculations alculation, hov aly condemn type in dairy
mill indication milk indications
of strength, we of strength, we
ing. It is but the considerati
there will be there will be
confusion in cal confusion in cal
The cow's mi tion. Every one a big producer
consumer of fo out of anything therefore, if we ance. It is an ance. ity of a co other features th above all, there most vital indica the size of the m depth and size may be taken as Dairy Temp An abundance after digestion it account. A certaf requirement for al two purposes-it or it will pass on has most to do In
direction is the te ere is something production. It is nervous temperan and for this reaso temperament of ti
position. Her at

TYYPE in dairy cattle and milk proPROF. H. barton. Mastonald College, Quobee. function in the dairy cow and separable. To make these statements is fimply to state the relationship between causn and effect. In other words, fifty pous d milk cow with a ten pourd udder, or a ten pound rib, or a ten roand any. thing else of vital importance in form doess not occur.
The so-called dairy type is supposed to be the sum total of desirable indications. The desfrable Indications are the jeculiartties of form upon which the depend, and conversely they are the depend, and conversoly they are the
cumulative result of this work. Their cumulative result of this work. Their
interdependence is very complex, some intardependence is very complex, some
of thim are extremely hard to measure, and because of these two considerations and because of these two considerations
there are many disappointments in mak. ing calculations cis production for a siven set or combination of them. Fafture in set or combination of them. Fafture in ly condemn the standard. Moreover, type in dairy cattle includes more than of strength, wearing ability, and breod ing. It is but natural, therefore, breed the conslderation of form as a that in there will be confficting evidence and confusion in calculation.
The cow's middle $^{2}$ is a positive Indica-
Hon. Every one knows that a a big producer of milk, must be a big consumer of food. It cannot be made
out of anything else, Other things being equal
therefore, if we can denote evidence therefore, If we can denote evidence of feeding abil.
ity in a cow we have a first indication of perfor ity in a cow we have a first indication of performcapacity of a cow can be estimated. As with many other features there are a number of indications, but in other there is the room in the digestive cavity In other words, the length and spread of ribs cavity most vital indication. General appearance of vigor, the sixe of the mouth, etc, are all indicative, but the may be taken as positively count for most. Middle tlon. It alone, however, wil noted to milk produc Dairy Temperament at the Turning Poin
an abundance of food will supply thing Point,
after digestion it must will supply the material, but account. A certafn amount of it will al to the right for body maintenance. This will be about the taken regufrement for all cows. The rest will go the same two purposes-it will be made into flesh and fat or it will pass on for making milk, The factor that, has most to do in determining the quantity in each direction is the temperament of the cow. Obviously here is something that is positively related to milik production. It is put down in the standards as and for this reason frequently misinterpreted temperament of the cow has reference to her The position. Her disposition depends upon her ner


Maple Leaf Jean, a Fine Combination of Type and Production. Thoves splendid Ayrahiro epw, owned by Gilbert MeMillan. Huntingdon Co

 spring.
vous system, Its control, in turn, depends upon her governs the frain controls the nervous system aud by neryous temperament is not nervount in meant would be one extreme. It is not sluggishnes, which would be the other extreme, It is intended to sif nify a highly organized system under complete sigcarable of the fulloped brain power and therefore capable of the fullest response to treatment For years the with s view to cow has been studfed and Graduslly to improving her in milk prodreated Gradually but surely she has been brought to the mous work Her atie and willing to perform enorstamina are the produsiveness, her energy, and her Certain peculintiles of temperament.
regarded as manifestations of and appearance are temperament The so-cslied nervou: ally, should show brain cavity, as observed extern length and breadth of forehenis is evidenced b said to be almost an inder in thin The eye may bo the general expression or the countenand, if is also it is also indicated by the fibe of thance if youl like, and by the suggestion of angularity and throupheut conformation as contrasted with fining openneans in and compactness.

Efficient and Capacious Udder Indispensable. reached the circulation after digastion, that they aro
will probably be about 10 times upon her of importance is at once apparent that if strength is the very highest importance the steer it must be of producing cow. The nervous energy of a heavy makes this work possible, but in order the cow sustained she must have a robust constitutit it be vital organa, which account for a contitution, The condition under severe strain, must be stron healthy or the heavy work imposed upon them strong enough With the increasing development in
lon, the increased lactation period in milk producberformance, the closer confinement and increased more and morease, thls conslderation is becoming fiore and more important. Constitution Indication menifested feature in type. lis character will be mos $t$ noticent many details of the cow, but will be the chest cavity the seat of constitutlonal strensth manateurs cavity, In estimating chest development obsorving the misled by condition and by not matter. well developed chest does not necessarily mean a and its shupe must the size of the girth, fts filling sise of the animal, her considered in relation to the llarlties of conformation other Important features shoully, constitution or any a connlderation of isolated indid not be calculated by as a whole, despite the fact that some The indications portant than others, should that some are more im:(Continued on page 19.) basis.


## Aurora Mechthilde, a British Columbia Cow With a Record.

root of tho close Telattonthip the Experimental Farm, Agasala, B.C., affords further
larust she was firnt in a class of 16 mature cows and grand champlon
er all breecs. Sie ls credited with 25.8 ibs, of butter in champlon and $18,195-\mathrm{tbm}$, of milk, 792.5 lbs , of butter $\ln$ R.O.P.


Sunbeam of Edgeley: Where Would She Go in the Show Ring?
 lbs. of milk and 839 ibs. of tupe highly developed. She has prodtuced 18,744

 on Prof, Barton develops this subjeet in the
srticle adjoining.

#  <br> December 5, 1918 

## The Tractor, the Truck and the Horse

Is the Development of Motor Power and Transport Endangering Horse Breeding?
are prosintained.
once is the situation as it appears on Such is the situation this we find that the surface. best informed horsemen are many of our best informed of the horse optimistic as to the future these optimbreeding industry breeders and importers, who might ists accused of having a selfish interest in looking at be accused ofte themselves and trying to get ochers the bright sit men who are absolutely unprejudiced, to do so, but men personal interest at stake, but Who hafter a full examination of all phases of Who, after, a honestly believe that the breeding of drnft horses is a good proposition. Notabie among dratt horses laster class are many members of the federal and provincial departments of agricuiture of the question. and provincial department each side of the question. not do better that fully five times as many metor
"I estimate the
trucks as horses have come into the city of Toronto


Are Teams such as This to Make Way for the Tractor

Fild Power on the farm of K. M. Dalglelsh, Carleton Co., Ont.

during the last six months," stated the manager of during the Cartage Company, to an editor of Farm and Dairy a couple of weeks ago, our hauls own business we have never used horsee. Our hauts are princlpally long ones and in this city the all long truck has entirely eliminated the tora the large distance work. 1 belleve, however, that che large departmental stores will account of the frequent stoppages they have on der livery rigs. For general cartage pir
truck and trailer are always used.
Mr. Ward, who has probably the largest cartage business in the clty of Toronto, with 20 trucks on the
something like it," remarked a
faced Parkdale grocer in our hearing, as te came into the store after running his Ford dolivery truck into the garage. "Here 1 am all ready for dinner. No horse to unhitch and no reeding to do. When I leave here Saturday night I don't have to come back till Monday morning. No feeding to do again. That truck is the finest buy I have made in two years."
Even more ominous, perhaps, is the growth of trantor farming. As long as the idea was prevalent that tractors could be used only on farms perfectly level and free from stones
(Continued on page 18.) something like it," remarked a

## The Dual Purpose Shorthorn in Canada

By Geo. E. Day, Secretary, Dominion Shorthorn Breeders' Association

COR fear that some may not F have a clear conception of what constitutes a dual purpose animal, perhaps it wotrd be well at the start to give a deundon of what is generarally speaking, a dual purpose cow is one which will produce enough milk to pay her way, will produce steers which meet the demand of the best markets of the world, and which, when her period of usefuiness is orer. may be profitably fattened for the butcher. A cow which comes up to these requirements dual purpose properly be called a dual yurpoeds cow. There are severy this title, which claim to deserve this in Ambut the most prominent one in An erica and also
One of the difficulties in breeding dual purpose cattle is to keep the proper relationship between beef and milk. If milik production only is considered and no attention paid to the merits of the cattie as so bred producers, then the animatry animals, should be classed as daare. In Engand not as dual purpose. In England, so-catted datry shorthorns the dairy cattle occupy a prominent place ammongland, the home of of that country, but even most skilful breeders are this type of Shorthorn, he beef end of the business. not losing sight of the aeer of wisdom. We have This woutd seem already in the field excellent lime as well as a waste and it looks like a wastempt to make the Shorthorn of good material to attempt tors of dual purpose a purely dairy breed. Breeders of this fact promShorthorns wo thetr minds.
inenty ing to hold both beef and milk within the same ing to hold both breeder of Shorthorn cattle will breed, but overy a rule his best milking cows are his tell you that as aws. The ability to produce a liberal best bro milk without losing meri as beer producers has been characteristic of the Shorthorn from


Typical Dual Purpose Shorthorn. This Cow Has a Record of 8,006
Pounds Milk.
valued highly by the most prominent improvers of the breed. Thos. Bates, one of the early improvers of Shorthorns, milked all his cows by hand, and any cow which was not a satisfactory mer merit as promptly discarded no matter how hign her anything a beef animal. Any person who knows anything about Shorthorns knows the high position the extraThos. Bates as a shorthorn breeder, and attle in the ordinary popularity attained by his cattle in the early days.
Amos Cruickshank, the man who brought scotch Shorthorns to the front, also had a very high appre clation of good millking cows, and discarded many otherwise good arfimals for the simple reason that they were disappointing as milkers. Wm. Dutse, most famous of all Scoteh Shorthorn breeders to-day Is another man who values millk production in his cows. The writer remembers tul calves and, almost of Mr . Duthie's highest priced bull calves and, almost
without exception, they were great deep-bodied, short-legged cows, carrying excellent udders and Duok
ing 1ike workers. Mr. Duthe ing like workers.
stated that these cows had to be stated that these cor by hand for some time after milked by hand for some tume ather calving. These curee aunt of their been mentioned on account of Sherroutstanding prominence sint simost horn eircles, but as, as previousoreeder of edortimated, places a high value iy intimated, places aill produce i upon the cow which milk, knowing liberal amount of mile for him the most valuable calves.
In Canada, the idea of encouras ing milk production in Shorthorn ing milt not take on definite shape untl 1913, when the Record of Perform: ance was opened to shorthorn cat tie. The first certificate was issued in the spring of 1914, and since that time 202 certificates have been
to lissued up to the date of writine This is not a large number, short. must remember that especially the horn breeders, and Shocthorns, do not milk their cows, but allow them to nurse their calves, this methof giving the best results standpoint of developing their calves rapidly tandy we would not expect very high records from dual purpose breed, but the showing is not at alls mean one. Following is a summary of the results. 94 Mature Records average 8,404 lbs, fat.
${ }_{26}$ Four-yearold Records average 8.015 lbs . mill 322 lbs. fat.
${ }_{44}^{32}$ Three-year-old Reçords average $6,600 \mathrm{lbs}$. mill 265 lbs fat.
${ }_{38} \mathbf{2 6 5}$ Two-year-old Records average $6,250 \mathrm{lbs}$. millit 257 lbs tat.
The highest Canadinn record for a Shorthom 17,723 lbs. milk, and 636 lbs , fat. This looks 1 lib almost too high a record for a strictly dual purpen cow, and yet many very high produce beef standpoist good account of themselves from a beef stana ind The general average shown in
(Continued on page 23.)

## Observal

T$\mathrm{HE}^{\mathrm{H}} \mathrm{egr}$
countr
France exciting clently dist the warring and peculia ago was on Dalry may storles of th study the ag or sclentific customs of t] all thet I ca

The agricu existent. By the area th year has be yeach land he or another. or another.
in a few sec for preparing rampled und se of crops with what $n$ raged, howe
worth whlle. worth while.
harvesting of Let the re heir imagina elds at har telephone wir arbed wire, nd most of ties, even at of curting gr of cutung gr tles in Fran these con from crops
to lields alm amage. Nea lshed trench and has bee shell and tren
ed with bart ed with bart
ments that it attempt farm even If other and Dairy that during the past year he has reduced his horses from to head use baven head. of the horse oa city by the manager of w.th that exprepsed - that the truck had the Whaty eliminated the horse excep in the case of departmental stores, which stores, he said, would always find it mor economical to use the horse. Ant or infre has visited roro, must have noticed th ramendons growth in motor truck traftie
From time to time, also, representa thes of Farm merits of ilght trucks and horses for delivery purposes with manab ers of smaller business institutions in case city of Toronto. In the majority of hat suparseded horse delivery. This applie suparseded hall grocery stores where the trade was alt of a local nature, and where one would expect even more freWhere stoppages than in deliveries from departmental stores "I tell you this


## Agriculture In and Near No Man's Land

Observations in France by a Former Associate-Editor of Farm and Dairy - By Sergeant A. B. Cutting, B.S.A.
$T$ HE agriculture of No Man's Land and of the France, is interesting and unusual. While in so exciting as the war, farming over here is suffldently distinctive to be uluite exolting ate is sump the warring areas, to say nothing of it thes in and pecullarlties where peace rejgns its quaintness and fancles regarding it from one who few facts ago was one of the asalatant editors ot Fay year Datry may furnish a diversion from reports and storles of the war.
I have had no time, while "soldiering" here, to study the agrleulture of the country in a commerclal or sclentific way. Conditions In tho customs of the people in more peaceful districts, that happened to observe at odd times and places, are ill that I can tell at this time.

War's Devastating Touch
The agriculture of No Man's Land is mostly nonexistent. By "No Man's Land," I refer not only to the area that at any moment lies between the alied and Hun lines, but to all France that this year has been the scene of battle. Every foot of uch land has been a No Man's Land at one time or nother. Farming was carried on there this year In a few sectione that remained quiet long enough for preparing the son and-sowing the seed, but the swaying of ofrensives froin March to September so rampled under foot or pherced with holes the promse of crops that the harvest was small, compared
 gorth while. Everyone knows whilch olide did the harvasting after the midare of July. Iet the readers of Farm and Da their tmaginations going to one of thefr own fields at harvest time and finding it full of shell tholes, rifie pits and cover "dug in " by soldters, of teleptione wires on the ground and, perhaps, some barbed wire, to say nothing of trenches, even graves, and most of the grain trampled flat, and they may be able to realize the difficul. ties, even at tifies uselessness, of cutting grain in fields that have been the scene of batthes in France. All degrees of these conditions prevalled, from crops completely ruined to flelds almost free from aamage. Near the old established trench systems, the land has been so cut up by ed with barb wire entangle. ments that it is fmpossible to attempt forming in any way, even it other conditions perii. ed.

Destruction of Orchards. To agrieulture in No Man's Lam, the "unkindest cut of tion of wanton destructhat the Hun has been. Near ly every tree not rulned already by shell fire has been felled or frreparatly damaged by axe or saw. Even vineyards have been levelled to the ground. Magazines and dafly papers have told so often and well atorles of the devastation that atories of the Percherons now, howwer, are Great Dreance. devastation that spreads like This atring was photographed on the maneh of Molv ely In America than in the country of thetr origin.

## France that I shall not furt tair neids of nortaern

In defintte and delkotitel ant
tion and delightful contrast to the desol behind No Man's Land He the flelds of France, and the lines. Farming is practised peacefully maximansively. Every effort is made towards is to production. And the wonder of it all is, to me, how they manage to till such large areas an produce the fine-qualitied, heavy crops that they do by the practice of almost primitive methodspractices and implements like pfoneer ioys ada-even on thelr poorest land elarey in Can some of ft half chalk. Ererything is oy, bhaley, Gively, to be sure; extensive farming. as linown Canada, is not practised Rural Comm
Farming sections Community Life.
on every farm, as in America. The farmers home peasants, live in community villages, and their fortly le outside and around the villages, and their farms a considerable distance. With church, school them stores nearby, social conditions are ideal, but and Whe and labor are lost going to and from the land While most of the homes are comfortable land. and ctean inside, sanitation outside usnally , cozy The buildings often are grouped with ecurtyard affect around manure plles, the front doors of the ouses facing inwards, and drainage from and the
 whored and untiled, makiag that part of the pands wet and sloppy the year around. Manure is sellom howred to accumulate to any extent, however, being hauted to the fields as rapidly as other work will permit, but she manure pile thereby is not robbed much of its hygienic menace or its aroms robbed Canada.
Near The Quaint Villages of France. villages nestle quaintly at short intervates, these
the country. The red tile roofs and white plaste f the the houses; the tile roots and mud walls roofs and to the raths, maller hand; the thatched rooll with ith of many nd dem; cattle, the donkeys and the gosts, eren ithide; the the people themselves, lend an air of an the garb of romance to these places that captirates antness and And not less picturesque is the faet and lingers. roofs of centurles" Three upon their backs,
ing the farm landscape the eye forcibly when view It the terraced hillsides. Aspare villages. First, man does not like working up and down French moderate siopes. listead, by terracing, whlch, even be a long, laborious job, he tran-orms the rillist into a series of level flelds that look like hiliside natural steps, ascending from earth to broad, treadever practicable, the Ises, as well skyline. treads of these steps, are cultivated. The second thing that attracts crazy patch work appearance of the la la the number of varlous sfzed, shaped and colorms. A plots, ail unfenced, appear scwn (-ot fown) togetlier into a gigantic natural crazy quflt. Plonatng logether cenic effect is, one cannot help wondering is the practical effect on production of, say, a hale the one or two-acre patches of wheat separated dozen by a similar number of like areas of poted only factory. clover on the same farm, is equally sot or matores. Anset one place, I saw a square plot satismatoes inset in the centre of a larger spuare topotatoes, probably done to camouflage frome of lers the position of the more enticing crops sol-

> Where Poppies Grow.

Th farming thing that particularly strikes the eye everywhere. In the over here is popples, popples everywhere. In the grain fields, in alfalfa, popple and mixed grasses, beside the highways and in n the ey, on hilistde and in val ummer late spring and all cummer, the scarlet of the Doppy is seen mifngling with green and the gold of the cops. And where dalsies and pornilowers abound, poples rlame with them in patriotic prisms of red, white and blue. How the popples got thelr It be that not know, unless be that they were once brown for seed or oplum; but re-growing are, re-seeding and like growing year after year, rash a great spreading red Up-to-date farms of France. seldom seen on farms are here. Old-fashloned plows, wooden-toothed harrows plows, heavybladed hoes: log rollers in heavy timbered frames, the side pleces of which are cury. ed and act as sled rumners when they touch the rusners no pole being used; scythes that are sharpened by beating the edge on a stone with e hammer, sfoktes, cradtes and fails are ant ong the kinds of (Continued on page 16.)

# FARM AND DAIRY 

## Feeders Corner

## Condurated bre E . Anctibuld

## Barley as : Horse Feed

 1 the seoding every chance wo srow a lot of barley and onery for korsa feed.
Whil bo short of onts
How aboui bariay? In what proportiona
 should the nats te mixed witn
ley to make it a mafe feed
Northumberland Co., Ont.

Our experience has shown that barey is an excelient gin per cent less lat is worth from s io pors. An exthan an equal weight of oats. Anole cellent mixture is: warley, and one oats, two parts wh if the horse's teeth part wheat bran. $w+1$ certainly pay to are not sound it will certainiy pay of crush the barley. The grinding of barley is not good as it induces a pasich iness when mised with saliva, Which is objectlonable to the horses. bran writer prefers giving some wheal bran with the grain mixture as a laxativet and general touic, but if this oits available equal pari us used-F. S. A preferably crushed, is used.

## Sweet Clover Silage

W
 momes trat curuis iff tor hay, hion comes to curing it suocess.s. What
we have had no suld ever, we have would it make? Should it
kind of silaso would at the name period as
he cut for silage an he cut for silage at the same period the
for hay? My thought is that if the
weather were favorible, we could cure

## Show me the Cows

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Hen

JOHN DEERE LOW-DOWN MANURE SPREADER
The sproder With the Beater On the Aale
John deere van brunt drilis

JOHN DEERE VAN BRUNT FERTILIZER DRILLS JOHN DEERE VAN BRRUNT LIME AND FE brunt lime and fertilizer sowers JOHN DEERE CORN PLANTERS ${ }^{2}$ Gitio Aeeuraeg-Not Avorage JOHN DEERE CULTIVATORS Aesure Cloan and Tharouph Cuich JOHN DEERE BEET TOOLS "They Save Lathor and Mole Production Proftable"

# To Every Man who is building or remodelling his barn 

Tyour barn Book shows you how to build your barn from start to finish, tells how to cement floors and how to build how to lay the cattle-stands can be made so they will not be cold, shows the best and most economical methods of laying out the floor space and putting in the stabling, shows right and wrong ways to remodel an old barn; shows how to ventilate barn and build cupolas for the roof, It tells how to frame
the barn by a metho shows how two men and a tedm can hoist the of the old way; You can build or remodel your barn yourself with this book to position. cause every point is clearly illustrated by full-page photographs and
blue print working plans.


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Thatividual breedMr. O. MeMilian, ers may do, or
Huntingdon, Que. what organixed effort a breed assoclation may put forth, or even what prot it drop out of a breed may make, few years and see the thow tims to make progress. If it continues create the impression do not want rige alone will make that the show ring for as a matter of the breed, if the show ring standards get fact, if trom the functions for which divorced froms been commerclally dethe breed has been comer to its ultimate
veloped it will worl to veloped it welther do I under-rate for
infury. Net Infury. Nelther do good sccomplishone minute the great Registry." The ed by the "Advanced eows as "Garclaug
records of such cown records of such
May Mischlet." "Auchenbrain Brown Kate," and "Lily of Winowis the posdone wonders in minection within the
sibilities of prode made sibilities of production average made
breed, and the splendid atill breed, and
by the 2.695 cows and helfers that have qualified in the Advance Regtstry of the breed commercial worth. But question the commerciai wedistry as long as oure based entirely on production, Irrespective of cost, we cannot expect to accompled by at leas that cannot be
some of our rivals.

Where Ayrshires Triumph.
Howeve
er.
hs
comes to a line Ayrithires ex -are than one oc casion giver asy that none of their, rivals has over equalied, that, the fore, I say umlestactor for the advancement of the Ayrahire breed today is the show ring, and as long as our show ring standards combine true Ayribire type with indications of capacity and efficlency in production, it will continue to be so. That the breed does not occupy a stronger pose bion to-day is due mainily to to causes the show ring can accomplish what the show by some of our strong: fort and largest breeders. For a good many years the brunt of the showing has had to be borne by three or fonr really good herds, the good which they accomplished being largely offset by another class of exhibitor which went out with a herd whose sole object was to fill as many classes as possible and todge competition, and in this way dodige compeme easy money; happily, this class is now almost a matter of history.

Second, the great lack of unitormIty in makdog the Ayrihhire awards. It in no unumual accuases to be placed same salimaie intly three or four times in as many weeks, the standards bo T

## mals

of whether the dig, set by the fact of whether Hot stelin specialist.

Thave followed the bigger American hows pretty closely for the last thirteen years, and I can almost count on the fingers of one hand tis an the nagern the plaches made dy an Ayribire breeder. When you stop to think that Ayrahiro breeders have veloped a type that other dairy broed afe willing to try and imicate, in a iltue hard to reason the remedrios logical conclusion. of the seeond clause will, I beliove, go - long ways towards overcoming cas first, and when for two or three sos sons we see ten or twelve crack Ny. shire herds on exbibit at our blg Ma tional and State Exhibitions, then, ana not till then, will the Ayrahire Cake her proper place in the Dairy Cathe world, and it is up themenes to see Ayrshire breeders themselves to see that it is accomplished.

Live Stock Information Bureau HE Department of Agriculture of Now Brunswick, has estabinise The breeders of the various classes of pure-bred stock having animals for sale notity the ohlef of the Live Stock Division. This information is classi Division. This and fled. This information it fied and Mied. given to farmers whe
antmals to purchase. The ierrice is animais to purat help to the breeders proving are stock, as well as to those of pure-bres to improve their farm antwho des
mals.
A statement of the live stock aval able in the province is issued societies month to all the agricultriace, and to and breeders of write for information others whe focation and price of regarding the ocation andatement is animals. This montaly ade to the De revised from returars on forms seat parmen for the purpose.

## Silo Demonstration Work

By R. J. Ferris, site Demonstrator for British Columbia.

${ }^{7}$HERE is an increasing desire by the farmers of British Columbis to become acquainted the cheap merits of sliage as an ald wo the our opt or production of ared to a large extent atlons have covered to a large exteal the southern part of the provnce placias' Initial policy of the Brazch of placiag the sflos in the outlying districts such as the Okanagan, Arrow Lakes, Kam: loops, ste, Instead of the more thickis populated part of the province, proved a first-class method of adror tislag, with the resuit that they art now belag bulfit more rapidiy. The offer of aselstance to the irst tarmer In an Institute Distrigt who erectu one of the type of silos which was recommended, has been taken adras tage of by 30 per cent of the Farmen Institutes. There are still a hargs number of lastitute districts whes number of not yet begun to foed allige to their cattle. Sllage is an economis neceasity, and the modern dalry fras is not complete without a sitho, ceppe clally doos this apply to Britigh Colver bia with its varsing tarner Britist A circular entiled "The Briths Columbla Farmer and his silo" "wis comptled, and the information therefle given has led to a large number oll farmers burliding sillos. There has amp been a large demand for the entitied "Silos and stlage.
Twenty-three silos have been crock by the Department representatives and 13 have been filled--Agricultan Gazetto.

The whale gets into trouble onty whet he starts to blow.

En-8

hulf a century 1
Ask for price Pached in conv


Lak for pricen
Black


Ask for price


## En-ar-co National Motor 011 <br> Our scientific by "Graduate Workmen*

[ifl ${ }^{(W)}$ ) bility of carrying residue processes eliminate even the possi-- In the making it first comes off in the substances in this oil
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oil. Order now or ask for Thus you can buy ask for prices f. o. b. our nearest branch Thus you can buy at today's prices. . Prices will not be. or steel drums or half dre. Buy it in barrels, half barrels

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wick or bright, Elear light-without charred wick or sooty chimney - is assured when stoves. Buy it by the barrel lanterns or oil meet fuel shortages with anel. Be ready to
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## Dairy Matters of National Importance Dealt With At Ottawa A National Dairy Council Organized - Changes Suggested in Legal Standards of Dairy Products - Scales

 of Points Adopted for Scoring Cheese and Butter - Definitions Accepted for Different Grades of Butter, Cheese and Cream - Other Important Matters.THE three outatanding accomplishs ments of the four-day national
dairy conterence, held in Ottawa week, were:
First-That the delegates succeedod in forming the long discussed and desired Nattonal Dairy Councll for which omicers were duly elected, a form of organization asreed upon and prellminary expenses provided for. second-A number of important changes were suggested in the legal standards for dalry products, as used by the Inland Revenuo Department These apply to milts, croam, homoganteed mili, homosented creaw, led cream;
Third-Scales of points were adopt ed for scoring cheese and butter which it is proposed shatl be used which it throughout Canada. Grades for chroughout were decided upon and their cheese were decided apandards and
standards. Grade stand stande descriptions of cream were grade de

Recommendatlons Made.
A number of other important matters were dealt whth artit decisions reached. Among those concer ins which definite resolution passed were the following
was decided to request the varlous Provincial Goveruments to enact leglalation at an early date requiring milk producers to be pald for according to its butter fat test.
The Dominion Government will bo asked to release at the earilest moment possible all soldiers in any may connected with the dairy industry.
Now that the war is practically over the Dominion Government will be asked to rescind the regulations permitting the sale of oleomargarine. An effort will be made to impresa An milk producers all over Canada the importance of buying pure bred the importance sires only from breeders whu dairy sires show rellable rec.rds of the milk and fat produced by the dams of the animals offered for sale.
As s means of helping to prevent the rap'd spread of tuberculosts among swine the Dominion Govern among sill be requested to make it meat will by to pateurize or sterilize compuitsory to pasteurla
all dairy factory by-prodactairy com The appointment of a daair experts mission composed of purpose of inwas favored for the purpose of varl. vestigating the requi
ous export markets, of milk or cream in the manufacture of all butter made
in Canada was recommended. Character of Gathering Character conference was convened by The Dominion Dairy Division, the exthe Dominion Dairy Division, the Government, pense being met by the Goveramoilck prestded throughout. The meetings presided throughout. were held in the included representa the delegates inchuded of the dairy tives from all bran Provinces, includ. Industry, In all the Provinces, including the producers. As the mers in their ent were recogatzed leaders in their respeotive fietas and had had ranld years of experience, much the discusprogress was made would have been slons than otherwise would bave beea the case. Some res olucusion passed with little or no discussion, the attitude of the delegates conceriing them being well knowa. in some cases the decisions reached were ahead of the views hed by many dairymen, such, for instance, for mill one favoring the payment for aink by butter fat test and the one recom mending the pasteurization of whey The object in passing these resolu tione was that fhey might be uaed to educate public opinion and pave the way towards obtalning the reforms afmed at.

LIST OF DELEGATES.
The following la a list of those who were present:
Dairymen's Association of Western Ontarlo-James Donaldson, Atwood: Frank Boyes, Dorchester; W, G. Medd, R.R. No. 1, Woodham, Ont. Dairymen's Ansociation of Eastera Ontarlo-J. A. Sanderson, Oxford Star tion: T. A. Thompson, Almonte; R. G. Leggett, Newboro.
G. Leggett, Newboro's Association-J. B. Vincent, Racine, Shefford Co.; I. P. Lacourslere, St. Hyacinthe; J. P. P, Lacourblere, St. Hyacinthe, J. Cayer, St. Hyacinthe.
St. Hyacinthe. New Brunswick Dairy, W. Huggard, Norton; J. P. ation-W, Honds, Moneton, N.B.
Simonds, Moncton, Dairymen's Associa tion-D, W, Murray, Scotsburn, N.S. tion-D. W. Marta Stellarton, N.S.
Harold Falconer, Island Dairymen's Association
PE. Island Dairymen's Association, - J. Walter Jones, Bunbury Farm, Charlottetown, P.EI
KKensington, P.E.I,
Manitobs Dairymen's Association-
Manitoba Dairymen's Associator. Walter J. Cummings, Winnipeg, AinnMacKay, 509 William Avente, Wianpeg. Man.

Saskatchewan Dairymen's Assocla-tion-W. A. Wilson, Sask. Co-operative Creamerles, Regina; O. W. Ander-
sen, Humboldt, Sask.
Alberta Dairymen's Association-E. Alberta Dairymen's Associd Dair'y, T, Love, Manager P. Pallesen, Calgary Central Cheese Factory, Calgary.
Central Cheese Factory, Catgary.
Ontario Milk Producers' Association -E. H. Stonehouse, Weston, Ont. Montreal Milk Shippers' Associa-Ion-James Winter, Ormstown, Que. Ayrshire Breeders Association-W. Ayrshire Stephen, Huntingdon, Que.
Jersey Breeders' Association-B. A. Bull, Brampton, Ont.
Bull, Brampton, Cream Manufacturers' Associslee Cream Manufactara Dairy, Ot. tawl., Ont.
tawa. Ont
Mils- Distributors-C. B. MeNaught, City Dairy, Toronto, Ont,
Canadian Creamery, Association Mack Robertson, Bellevil.
G. Jackson, Slmcoe, Ont.
Q. Jackson, Simcoe, Ont. D. Straek, 108 Hudson Btreet. New York, U.S.A.; 108 Hudson Btreet. New York, B. B.

## Tramer.

P. E. Island Department of Agricul-ture-Fraser T. Morrow; Charlotte town, P.E.L.

Nova Scotla-Department of Agrieul tire-W. A. MacKay, Dairy Superin. tendent, Truro, N.S.

New Brunswick Department of Agrl-culture-H. W. Coleman, Dairy Supt... Sussex, N.B.
Quebec Department of Agriculture E. Bourbeau;'st. Hyacinthe, Que. Ontario Department of Agriculture G. A. Putnam, Department of Agriculture. Toronto, Ont.
Manttoba Department of Agriculture -L. A. Gibson, Winnipeg.
Saskatchewan Department of Agrl-culture-Percy Reed, Regina, Sask. Alberta Department of Agriculture -C. Marker, Calgary, Alta.

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toria, B.C.
Chief Dairy Instructors, Ontario and Quebec-Frank Herns, London, Ont.; Q. G. Publow, Kingston, Ont.; A. G. G. Publow,

Trudel, Quebec,
Dairy Schools-A. T. Charron, $\mathrm{St}^{2}$. Hyairy schoola-A. Que. I. A. Zufelt, KingHyacinthe, II, H. Dean, Guelph, Ont.; Kton, M, MacKay, Saskatoon, Sask.
K. Montreal Produce Merchants' As. Montreal Produce Merchants, Montreal, sociation-W, H. Hodge care Lovell \& Que.: P. W, Mciagan, Que.
Christmas, Montrea,
Official Butter Grader for Ontario
J. H. Scott, Municlpal Abattoirs, Toronto.
Bacteriologist, O.A.C. Guelph, Ont.
Prot. T. H. Land.
Department Trade and Commerce,

Ottawa-Dr, A. MoQill, Dominlot Analyst,

Officials of the Depariment of Agr eulture, Ottawa, Including Goorge IH Barr, Chinf of the Dairy Division, and F. Singletos.

## THE NATIONAL DAIRY COUNCIL

FOf years there has been a wide sprond desfre fit Catada for som form of a National Dairy, Coun if that would unite the variou branchen of the dairy industry in on strons central organiention, capab of speaking for the industry as iy during the past counie of years and ly during the past conple of years and was intenalfed by the oleomargari situation and the récent action of
Food lloard in commandeering, d Food Board in commandeering, dal butter.

At the. conference lant week matter was firit brought up for eussion in the form of a resolu moved by L. A. Zufelf, urging formation of a National Dairy C eft, and secpnded by W, A. This pasolestion was debated a length: It wail not accepted as d, but the ldea of forming a was approved and a committee appotnted to dent with the matte
At a later sesslon this commis reported that it had heen moved T. A. F, Wianoko, seconded by E. H Stonehouse, and unanimousis agreet an a tentalive provisional ment, to recommend that the Natlonal Dary Counell be composed representatives from each Provinc one reprenetstative from each Pro ince to be a sroducer of milk, and that they add to their numbers as follows Fous representatives of the induntry, three from the east and obs from the westy three representative of the butter induatry, two from the of the butter industry, two from eant and one from the milk distip representatives of the east and one butori, two from the east and one from the weat; three representaty of the oream and mitk producers on city trade, two from the east and oss from the weat; two representatives of the fee crasm manufacturers, ond from the cant and one from the went one remesentative of the condes earies, and that these thirty-four rep resentatives elect from among then nelves a president and vice-president, one from the eant and one from the went, and four members of the execs tive from Eantern Canada, and thrie members of the executive wrom wesk ern Canada, the men from the
lent than ons of th
pring. sum reses are or any lent sive them or their n With the tr much wo after a per ing, hauling horses can b

Given a tr wilght, and bornes and i 0, for plov cending, pa Cresse Tract LIGHT pulled by fix used more work than reason that made to to. a 12 months in bo avaflable If the intatem many hores for cultivatie plowing, dtse when taking nowing, bind
wark is bein wark is being the cultivation
that worke th can not help ! work. Tente prove a traeto lescribed can torne work. two horses.-

Trath is
wealent to th

Tractor Questions
An aked by the Department of
Akriculture of the Unted Statean
and enewnred by Manufacturers of Farm Tractors. Manufacturers of

## Tractors vs. Horses

What different kinds of farm work efficiently as borses? for at least as TRACTORS
TRACTORS can be used as emlclently as horses for all kinds of power is requiked for which tractive vation of corn, coiton or org the cultsration of corn, cotton or other crops lor which, to obtaln the "erops, clent results, oblala the most efifhilly designed, will be calivator, spee-dent-EmersonsBrantiogham most ell-

Tractors can perform all lowing functions as well if of the folthas horses: Discting performine better operations in preparing porming all threahing, orchard cultrafing bed, vesting, operating ensilage mat har road building and maintenance mine, swing, pumptng - General , wood Truck Company Motors (rack Cowpany.
$T \begin{gathered}\text { Higre is no question but what } \\ \text { tractors can }\end{gathered}$ or mors can be used as efficiently or more sificiently than horsea for zearty all kinds of farm work. which is in reallty the to plowing, which operations, and ts basis of all hardent farm work that perhaps the done. It fs none the less true, to be done, it is none the less true, howaser, in case of other farm work sueh where it is ponsible to load the tisting, where it is ponsible to load the tractor
to very nearty fte rated capacitr thereby enable one man to do, and work than the same man to do more horses. The tractor man can do with clent than horses for use more emsons of the year, or ine in hot seaopring. summer, and fall the rashed horses sure permitted to remaln. It for any length of time, it is necessary to stve them zime to become necessary ed to hard worl to before they accustomIlver thelr martmum before they can de With the tractor, it amount of power. as much work the first day it to do after a period of tideness. It in the case of work as lifht entilvation the ing, bauling hay to the mow or mow. horses can be need to good adratarn. -Internatlonal Harvester Co -

Given a tractor of the right design, Woight, and balance, tractors may be employed at least as afficiently as bornes and in many casas much more so, for plowing, discing, harrowing, coading, palitag binders, and, of course, ati ktnds of belt work.-la Crosse Tractor Co.
L LiGHT tractor of proper construction that will ordinarily pull the same size load that can be pulled by five or alx horses can be used more economically on two horse work than can twe horses, for the reason that this type treetor cap be made to do all the word and therety aliminate feeding additional horses for 18 moniths in the year so that they will bo avaliable for use for a shart time If the statement is true that as manyman power hours and prictically as many horet power hours are regelted for cultivation as are required for blowing, dtectng and barrowing, also when taktng into consideration that nowing, binder work and other lieht work is being done at the tame ttme the caltivation takes place, the trector hat works those seasons: of the tractor an not help but be economical tor all work. Tents have been made that prove a traetor much as the one above dencribed can be uned tor doligg two torne work more emonomically than wo horses-Mollue Plow Co . han

Trath is mighty-mifthty tnconwalent to the horre trader. among the best published.

> Dairy Farming Feeds and Feeding Day's Book on Swine

## Library Department



## BOOKS FOR WINTER READING

The winter is your opportunity for doing some winter reading on any subjeot of farm interest. Here is a list of a few of the farm books in Farm and Dairy Library. All these are catalogued and are

Automobile Questions and Answers from Farm and Dairy by dropping us a postal. Price of good desoriptive catalogue that you can securb will be sent postpaid on receipt of price. Write for our catalogue to-nishticated in our catalogue and


## Those Pictures from Home

"If they only knew the pleasure they bring us

*     *         *             * I am sure they would come."


## Translation of an extract from a letter written by a young Belgian soldier to a friend in America.

"And often I must take in my hand, the pictures from home. I look at them all, one after the other, and they speak to me. Then I am once more at home-I listen, and I live again. It would be too much for me to write you all that they say. But above all, they say to

## IN THE FRENCH

Et chaque fois je dois prendre les portraits de ches mol en main. Je les regard tous, l'un apres l'autre et tous me parlent. Alors je suls de nouveau à la maison, je les ecoute et jerevis,-ce serait trop de vous ecrire, tout ce qu'ils me disent. Mais suriout lis me disent, "Au revoir!" Je les trouve tous un peu maigris, et Papa et Maman un peuplus grisde cheveux Mens, sif seulement on savait le ptis. que nous procure, ces portraits de la malson, il n'en resterait pas de le Belgique. Tous les portraits un en ceraient vers nous, quand même s'ilas deralent passer les fits electrique do devaient passer les fils electrique de
la frontière; ou on'ils devalent passer a irontere; ou s'ils devaient passer
a la nage le canal de I'Yser, je suis certain qu'ile viendrait. me, 'Au revoir.' I find them all a little thinner, and Father and Mother a little grayer of hair. Tiens! if they only knew the pleasure they bring us, these pictures from home, there would not be one re-maining in Belgium. All the pictures would rush towards us; even if they had to pass through the electrified wire of the frontier, or if they had to swim through Yser Canal, I am sure they would come."

## Gustave Geboers

L 282 2me Compagnie Armée Belge en Campagne


Thus writes Gustave Geboers, a Belgian boy of twenty-three. And your boy, our boys, will pictures mean less to them?

It is the very real contribution that pictures make to the morale of the men in camp and overseas that qualifies the Kodak as a gift in tune with the times. Kodaks for the folks at home mean pictures for the boys in France-good pictures.

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The College charges nothing for this instruction. It is absolutely free and the only expense you have to meet is board while in Guelph and railway fare.

The following courses are offered: Stock \& Seed Judging ( 2 weeks) Jan. 14 to 25 th. Poultry Raising ( 4 weeks) Jan. 14 to Feb. 8. Fruit Growing ( 2 weeks) Jan. 27 to Feb. 8.
Vegetable Growing (2 weeks) Feb. 10 to Feb. 22.
Floriculture and Landscape Gardening (2 weeks) Feb. 24 to Mar. 8th.
Factory Dairy Course (3 mos.) Jan. 2 to Mar. 21. Farm Dairy Course ( 4 weeks) Jan. 27 to Feb. 21. Bee Keeping (2 weeks) Jan. 14 to Jan. 21. Drainage and Drainage Surveying (2 weeks) Jan. 14 to 25 th.
Farm Power - Including Farm Tractors, Gasoline Engines etc. (2 weeks) Jan. 28 to Feb. 8. These short courses are for the special benefit of farmers and farmers' sons who find it impossible to attend college except for short periods in the winter. An illustrated short course calendar, giving in detail all short courses will be mailed on request.
G. C. CREELMAN, President.

Agriculture In and Near No Man's Land
implements in common use. They do mplements work, however, and do it well, if bountiful crops are any evidence; that is all that the French farmer wants, or cares about. It is expected, however, that demonstrations of efficiency now given by agricultural implements. imported from Great Britain and Canada for purposes connected with the war, for purposes condesire for using better implements in the future.
Strict attention is paid to cultivation and manuring. Every farmer tion and manuring, will not produce here knows yas after year without be-
good crops year ing well cared for and fertilized. Every pound of manure that his Every pound of and that he can bes stables produce
or buy (in trade) goes on the land; none is wasted, excepting by exposure and leaching in barnyards.
and Harvest Methods.
Harvest Methods.
Among the interesting sights of the harvest field are clover in coeks so small that a chlld could lift one, hay of all kinds in cocks tied with thongs at the top, grais in stooks much larg er than made in Canada and hay, straw and unthreshed grain in symmetrical, many-shaped stacks, of which the French, and also the Eng: Hish and Scotch, farmers are master builders. A sprinkling of rye is somietimes grown in the clover to stiffen the latter when curing in cock and to furnish materisl for tying. Often the tying thongs are kept and used year after year. Sometimes the cocks are tied not only at the top before curing but also at the bottom before loading. Cured and stored like this, the clover suffers little or no loss of leaf. But Intensive farming of this kind is ex pensive in loss of time and labor.
Live stock on the farms seems to be plentiful, but the quality is below average in and near the war zone: even in districts many milles behind the lines. The best horses have been commandeered for army purposes, excepting a number of pure-breds left in selected localitles for bresding. The horses left for working the farms are horses
mostly the unfits. The predominatigg type is heavy draft, showing Percheron blood, mostly gray in color, mas. sive in conformation and bone and poor in quality. Most farmers have at least one or two mares of good brood type, even though they may be old and blemished. There are also lots of really good colts, too young as


A "Crazy Quilt" Farm Plan. This diagram is not an exaggeration. Is an acourate nopreacalation farms of shaich the serhaps sever Franoe are aplit up with perhaps several amall patches of each crop, widely aep-
arated. The object of the tomaty patch arated. The object of the tomaty, patch in the oontre of the poiace deafractive ever, was to remove the not be no sailly produce where is would moldern.


A Tei raced Hillside.
This diagram in eross section shows the Etep the appearanoe produced on the hillside farmis of France by terracing. The rises of the terraces are they, too, nearly perpendicuiar are eropped.

## yet for work elther on the farm or at

the front.
A Waste of Horse Power.
Interesting and pecullar are the ways in which horses are hitched to wehicles. Two-wheeled carts are used fobicies. nearly all purposes of work and for neariy hauling manure or crops, for play-for to market or the mill, for going to church or on a joyrile-but they differ in size, strength sid style, according to their purpose. Horses are cording to them, as occasion demands singly, in tandem and in combinations of varlous numbers fan-like around the horse in the shafts. It is common to see a dump cart of manure being hauled by four horses-one in the hauied by thafts and three abreast in the lead A few farmers have four-wheeled hay wagons, like those used in Canada, but almost twlce as heavy. Often I have seen four or more horses hitched to these and drawing what Canadian farmers would eall scarcely a two horse load, but blg loads in the eyes of the average farmer here.
It-Is on account of grades on the distant farm that some Frenchmen use so many horses. Economy in horse power might be effected, how horse by working nome of these horses on the farm while the remainder were haullig the load that far.
Most interesting of all teaming anos is the fact that only one reln. customs is the fact driving, no matter or line, is used for driving, ho marnessed gether. By means of this line, ust gether. By means of command, the ally rope, and wordsed in all direc tlons like a squad of soldlers on par ade. It is really a wonderful demonade. It is really well horses can be stration of how weil horsen such words trained to obey instantiy " "gee" and of command as when, in French. haw," or their equivalent in French. Donkeys and asses are very com mon in France. fellows and the latter for the littie fen specimens of the one for all other specimens to small species. They are aite and do mach carts, often in tandem, poorer classes of useful workles are used in some parts peopie. Muies arensively, but I have of France quite ext that I write about, seen, in alstrict. that ormy. only one or two

Red Cattle Everywhere.
Cattle in this part of the country are all red in color. In many hundreds that I have seen not more than a ciosen head were otherwise. This characteristic, coupled with comparison with breeds that I know or have read about, makes me think that these cat tle were originated in Normandy. have asked a dozen farmers, by means of my "plgeon" French or through interpreter, what breed his cows wero and not one could tell me; to them, and not one "Just cows." At any rate, they were good general purpose cattlo tor geseral purpose farmers.
tor geseral purpose fiked very early in
The cows are mill the mornings and often not again until about nine o'clock at nights. farmers milk three fimes a day buy this lish and Scotch soiders can a quart,
milk at eight or tell cents a milk at eight or leas sometimes; but the Yanks even leas sometinea, of whom are cosand Canadians, ailes by most peasanth sidared millionaires by most price that are honored with a apectal to twenty cents. ranges from tweive according to
Goats also are rained extensively for milk, meat and work. Of sheep ast
owine, I cantsa of the former poor specimens
latter were wor latter were wor
good Ilve stock and grade; but lent in the distr

A Tribute t The farm wom derful workers. work of the hoy the fields. Most bent and many round-shouldered loads on their b loads on their bi
handled hoes in mon cuatom for bundles of feed o field to the hon work is done.
almost doubled when hoelng crop are the hoes tha ing and thinning.
owtue, I candsay very little. The few of the former that I have seen weri poor specimens, and the many of the sood live atock in France are lots of good live atock in France, pure-bred and srace; but that kind is not preva-
lent in the districts near the war zone.

A Tribute to French Women,
The farm women or Prance are won derful workers, Besides doing the Work of the house and of the dairy, they do thelr share of the work in the fields. Most of the old women are round-shouldered from carrying heavy loads on their backs and using short. handled hoes in the flelds. A common custom for womeu is to carry blg bundles of feed or of faggots from the field to the home when the day's work is done. And one may bee them simost doubled like a pocketkyife When hoeing crops, so short in havdie are the hoes that they use for wabding and thinning.

Almost any work that a man can do, these days by to stacking, is done dusk, they toll withen. From dawn to dren for the needs of then and children for the needs of the nation. No young, and few middle-aged men are seen in the flelds. Men who are fit for work on a farm are considered fit for military service of some lind, ing at the front they bot fit for fighters, however, thent. There are no slackers, however, in desire or deed. Every man and woman is either fighting or France. for the fame and future of

## A Red Cross Dairy Farm

$\frac{\mathrm{NE}}{\mathrm{NE}}$ of the onnase tarm properties mear kniand, Saribury Court worked by the American, Red Oroes age a meane of giving recreation to wounded Amerioan soldiers and aleo to sunply milk and fresh vegetabien to sup-
hoapital fn the Maner Honse and neighboring hospltats. In this farm there it will supes, and it is expected that Guernsey hort a mixed Holstein and Incidentally of at least 50 head. Guernsey hy the eatablimenent of the the laws of Gillastrated the fact that unchansent Great Britain are not as and Persians as those of the Medes been. Persdane are reported to have been.
The first move of the American Red Cross was to secure Mr. Frank S. Peer as manager of their dairy farm. Mr. Peer if one of the beat known Geern. gey men in the world. He has a fine farm in New York state and foother in New Jersey. He also operstes larm on the island of Guernsey, the home of his breed, which is a show plece and the model farm of the ieland On tris Guernsey farm Mr. Peer makes an acre of ground produce foen makes hay and other crops in proportion and 25 acres support 75 head of cattle. Mr.
(ii)

Peer wanted to take amme of his line Guernseys from this farm acruss the of the willing to surrender sey farmers wers winners to the some of thetr prize Great Britain new Red. Crons herd. ing back to the foot law, however, dat. ing back to the foot and mouth dhonso beare many years ago, absotutely lorinto the United King of live atoek stock must be slaughtered. All Hive entry and within shtered at port of American Red Cross few hours. The ter with the Critish took mp the matexception was made Government and Peer's Guernseys and in faver of Mr. at Sariabury Court.
In addition to the dairy herd there chickens and many ducks $100 \mathrm{pIgs}, 1,000$ chickens and many ducks. The vageAltogether fruit gardens cover 10 sores. Altogether this Amarican Red Cross ing enterprise.


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mud-holes. It's pork we need. Hogs time to maketch prices. Now is the market make every grain of feed bring market value. This can only be accomplished by methods of feeding that absolutely prevent waste.
Feeding in the old knee-deep feeding kind involves waste of the most terrible kind. Feed is lost, hogs become covered whth filth, disease is encouraged,
loss is invited.

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 aro money-makess for farmers and moneyexperfoneo thet country. It hae boen proved b y experiences that the enting of food nove bonfloor will pay for itment in an $30 \%$. Buohthrough mayng tof feed in one normal meamon wolght of animimos feed and rupid gain in to guild one. Writo for an a diffen ult matur Feeding Floor" Wrookieta. Thee "Conerete metiboos of construction in detail
## Canada Cement Company Limited, 502 Herald Bldg., Montreal. 

## tivile Aur Free Book

Concerete, What tho The Farmar ean do with formerese, "that has helped more than 100,000 cany it ha to condipuou by showing you how permanemit onstruot improvemonto that aro proof, repais-proof. Conthine proof, serminproof, ropairproof. Contions 00 'permon of directions fock building hih plons and fuili



Salee offices at Montreal, Toronto, Whanipen, Toronto, "Canoda" Coment ary "Conocours from oment 0,000 . doaiort, in marlit memy Cando if youlloge in loweto coonom you dannot antle our nearest Silet
extenaively tor Ot sheep sui
ture of the ho immediate we arreed, howev the future wil ver on the 9 the stock offer nstrumental it ore fortunat arge proportion Vith the elimin nd-poor type lude that hor is yet an abtrae
farmer who is

Dairy Type a (Continue most fmportant the above is oh and femininity standardized pr some parts will sought more tha stance the head color, size, ior parts contribute. ap in a few lar capacity, dairy t machinery, stren Every particle of In type and is they may be reg
parcel of the abo

The Weakne
That records fu as to a cow's per
time is a rimple have been a dom dalry cow develo tral effect of zal estimate is also are not in themsel ind that they may sliso facts.
also facts.
are be more common and today when reco tlose discernment I is a rellable guide. ber of factors inclu dee dalry cow me wo merit. This is commercial milk ary average record a diffeult havorable conditions ands of cows, graad apal opportunlty er a creditable ree hotion that a record pome cases it unm thers it does some hem, its real servic oatlon. May It not as is this Identis It does not Iden perior merit? rik production poin fire analysis. ity polnt for mink cords, while of grea filte.
he Weakness of t hat the show ring it factor In steerin popent toward im hnow. That it h as it is capabl $t$ tts influence has rloes must be at case of the record
alght of everythfn alght of everythin
the show ring extr been made for typ m , but the dimer nte calculations sixed, which in Itse
some of the short rlag. This, how explanatlon. In
viter the show r writer the show
thes medifleation,
ture of the horie market at least. By cade to a decade. All hemif a deade to a decade. All seem to be the future will that the empaasis in ever on the guality placed more than the stock offered The war hacter of instrumental in ridding war has been astrumental in ridding America, and more fortunate states has been nore cortuartion of her off type, of a With the elimination of scrab gtallions. Withepoor type mares, it is sate to collions lude that horse breeding in to conis ret an abtractive proposition Cavada is yet an abractive proposition for the
farmer who is so incined.-F. E. E.

Dairy Type and Milk Production (Continued from page 5.)
From a breeding standpoint the nest important feature in addition to and femininity stamp the cow as a standardized product. Here again some parts will revesl the evidence sought more than others. In this in. stance the head ranks first, but the color, size, horn, and many other parts contribute.
And so we have our type summed is in a few large features-feeding capacity, dairy temperament, milling machinery, strength, and chafacter. Every particle of the cow is induded tin type and is essential to her, but they may be regarded as part and parcel of the above features.

The Weakness of Records.
That records furnish the last word as to a cow's performance in a given time is a pimpie fact That they dave been a dominating influence in dairy cow deveiopment with a genastmate is also a fact. artmate is also a fact. That they rete of an indiridual or of a and that ther may be mielandla herd and that they may be misloading, ar also facts.
Records are becoming more and wore common and more and more important. We have reached the point o-day when records require very ase discermment if they are to serve her of factors included in a record baldes dalry cow merit, many record cows of very little dalry mow merit. This ts true even dairy cowmerclal mill is true even in the ary averaze record of even to ordinary average record of even to-day is trorable conditions. There ire thor ands of cows, grades as well are thouIreds, which would require only Gaasl opportunlty in arder to regis fer a creditable record. It is false fation that a record makes a cowis bome cases it unmakes her. if the Corm may be allowed, and while the thers it does somathing to develop hem, its real service is one dovelop farlon. May it not is one of Identihat is thls identifleation worth ir the average individual case if after III It does not identify case if after il it does not Identify anything of lilk production point alone from a Gadre analysis. Considene records tilly point for milk production a antons nerformance, production; consons performace, and breeding, iffice, while of great value, will not
The Weakness of the Show Ring.
That the show ring has been a pofot factor in steering dairy cow decopment toward improvement la rechised by all who are in a postition know. That it has not done as ach is it is capable of doing and It its influence has at times been furlons must be admitted. As In Case of the record crank who has slght of everythfig else, so there the show ring extremists. A case been made for type as a criterion performance as well as of other as, but the difficulty in making ante calculations has been entalred, which in Itrelf will account some of the shortcomings of the r rige This, however, is not a explanation. In the opinion of Writer the show ring view point thet modiffcation, not only for


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 Farm and Dairy. The cost is Little and the results cots columas of and the results certain. Send inFarm and Dairy is in an excel. cause of the to champion the cause of the farmer in Canada, trolled exelusively by and con.

## The Basis of Profitable Dairying

 The influence of feed on the production of milk is striking. No matter how good the individual dairy cow is, the quantity of milk she yields is, within wide limits, directly dependent upon the feedshe receives, If a cow is subjected to feed of poor quality, unpalatable and indigestible, no matter how much she may be fed, she is sure to go a cow becomes a production and will not yield any profits. Such pounded a mixed feed, proarder that is why our experts have comthe dairy cow, rich in milk-produlanced according to the needs of centage of these nutrients in digestible form.

## Monarch Dairy Feed a rill get the highest production possible with the alone and when fed liberally to dairy cows it

 Dairy Fe and more of it every pound has milk-producing value in it of more of it goes to the actual production of milk than of other feeds because such a high percentage of it is
digestible.

Monarch Dairy Feed is composed of Oil Cake Meal, Cotton-seed Meal along with Bran, Barley feed and Cora feed. The mixture of Oil Cake and Cotton-seed Meals counteracts the constipation that would be caused by Cotton-seed Meal if fed alone,
Give Monarch Dairy Feed a trial and if the dealer in your district does not handle it, send us his name and we will see that you get it. $\mathrm{By}^{2}$ ordering early you will
assure delivery when needed.
The Campbell Flour Mills Co., Ltd., Toronto, Peterboro, Pickering
dairy cattle put for practically every other class of live stock. The interpretation of the standard, it not the standard itself, should be more exacting and more emphatic from a business standpoint. The choice of animal as an Individual for a member of a breeding herd with a view to por formance and reproduction should be a more conspicuous objective. Such things as condition, development, general appearance, etc., deserve con sideration, but in no case should they be paramount. Even making allow. ances for mistakes in careful calculation, our judging, as performed by our judges and as endorsed by our ex hibitors, is too often untrustworthy it the light of the above objective

> What the Resulte Show.

If the above thesis, the relationship between type and production with the
opportunity in its fall recognition, is opportunity in its full recogation, is sound, it should be passivis by results It to some extent at least our high thus - far obtained. Among our producing cows as a whe essential feafind similarity in the essental hea tures of type. A will supply che anawer. arity in pronounced reatures and can conformity to a given type trat can be observed in the lesding represen-
tatives of the different breeds is most tatives of the different breeds is most remarkable, Included many of the best Individuals of the breeds. That this fact is tha more widely advertsed the no show show ring recoras sis been afforde? ring opportunity has show ring can
More recently the she in More recently numbers, so that in claim increases and In spite of handiboth categories an asserting itself.
cap the ideal is aissert do well to temper their ldeas with type consideration and our show men will do weil to focus their judgment on indicative pertormance.

## THE SHEEP FOLD

## Wintering Ewes

AsT year we wintered 12 ewes, one ram and 20 lambs. They were all Shropshires. It makes but little difference as to the brecd, handing and feeding apply equally well to nearly all breeds. Next winter we expect to carry over 25 breeding We expect wo carry over ewes as there is no other line of live ewes as there is no other line of live returns for the money invested, feed returas ine ling requitred and labor consumed
expanded. the late summer and fall
During During the late mosture whastly roughage in the form of weeds and coarse grase, gleaned from the grain fields after harvest. They are going into winter quarters in surprisingly good condition. If ewes are in a fair condition in the beginning of the winter and given the right kind of hay they can be carried through with but very little grain. All depends upon the kind of hay or other roughage used. It has been our experience that legume hays stand at the forefront as a roughage for sheep. Nothing elase approach them in value. Timothy, red top and blue graas are coarse stemmed, have few leaves and therefore are a poor feed for sheep. Timothy hay especially is undesirable; it is unpalatable and causes serious is uapalatable constion. The chaff works cases of cowl of the ewes, lessening into value of the elip and causes irthe value of the cin. When forced to ritation to the skin. When orced if use timothy, we have found that was necessary to keep sheep in good mentary feed to keep sheep in good condition. Linseed meal and oats fed in amall quantities together with pulped turnips, improve the ration of
timothy hay. Linseed meal farnishes timothy hay. Linseed meal araish the some protelin and counteract. We have had good success leeding onequarter pound linseed meal, one-hali pound oats and two pounde roots daily
fo ewes when feeding tumothy hag. Last winter our ewes did not re ceive any grain until the midale of March or about four weeks before March or about lambing period. They were given a fairly liberal feed of red clover hay night and morning. At noou they renight and moived a light feed of good quality oat straw or pea straw, and about two pounds of pulped turnips each. The morning and noon meals were given mornick in a sheltered corner of the in racks in a some distance from the barnyard, some eaoh ewe to take pen. Tisere every day, which is absolute. exercise tlal in securing a good crop iy essentai C. E. MeD., Temiskaming Dist. Ont.

## Breeding Ewe Lambs

MANY Ruch sheep have been establishod in the past
year or two. Beginners in tho business are very often in doubt as whether it is advisable to breed ewa lambs. To these I would say that if is the very worat thing to do. In would be just as feasible to breed a yearling heifer, I have never ib prominent sheep breeders who woud gren think of doing auch a thing, uy matter if the flock be large or smal. matter if the flock be arge or smay The reasons ogainat The sheep makes lambs are obvious. $i t$ greatest grow during the first its greatest growth durifg the lirst year and a it is obliged to take it lamb is bred itis. Consequently its a mother decked and she will nevar growth is checked otherwise would Durins the periods of gestation and During tho thet about 12 months, nursing. which total tho chance to the ewe lamb hastare of lambs rail. grow. The percon en is genetally ed fromz yearling ewes is generaily very small. Nature has not yet provided her with sufficiont development and energy to perform the functions necessary to breeding ewes. It is a very poor practice to breed ewe lambs, even if they are well develop ed and fed. I have often seen strong, well developed flocks of sheep do teriorate in the course of three or four years by following this practics, Those starting anew in the breading of sheep. Will be more apt to err lif
of thls direction. As the cost of breew ing stock is considerable fing ewe lambs, thus hoping to produce salo lambs, uck at the eariest possidi able stock The size of the Individual is reduced, usually has a poor constite tion and not much stamina and visur. The quantity of the wool takn fros sheep is at least one-third leas per siead than that from sin head than that as lambs.
Successful sheep breeders generally breed their ewes when about a year and a half old. At lambing time hey have attained an age of two year and are developodetions necessary to form all the becoming mothers.-R. sex Co., Ont.

## A Stenographic Error

SOME of the young ladien on the stenograpbleal ataff of Farm inh Dairy are elty bred ani, wia norant of all things agricultural. Pu: instance the following was a new stenographer
Pure bred pigs, full blooied Hor stein, Ayrshire and Jersey butl calus White Wyandottes, White Leghorte Barred Rocks and Rhode cockerels and pullets.
The neatly typed letter handed oer a few minutes later read as followit Pure bred pigs: cold blooded hatist hairshear New Jersey butl conven white wyandottes: white lakhoni Barred rock and Red lstand cocterel and pullets.

Our English brothers are great tht ciers. Probably more so than 29 other country, France leans morey, utlity, while Canada and the of ve utility and fandy

For man leges has be are high in producers. amad the supplement which contz energy. For this your cattle, liberal prop


GET MORE BEEF FROM YOUR STEERS

## MORE MILK FROM YOUR DAIRY COWS <br> For many years, our Agricultural Col-

leges has been urging that cattle feeds which are high in protein, are valuable as milk producers. Recently, however, they have carned that feeds rich in protein must be supplemented in the ration, by feeds which contain a high percentage of net energy.
For this reason, no matter how you feed your cattle, the ration should contain a liberal proportion of

## SUGAR BEET MEAL

The great value of this meal lies in its net energy, which is 75 lbs . in each 100 lbs. as compared with standard wheat midds at 59 lbs., wheat flour midds at 75 lbs . wheat bran at 53 lbs ., gluten feed at 81 lbs . etc.

Thic best authorites recommend Sugar Beat Meal because it is so succulent and palatable, and possesses valuable laxative and mineral qualities. Cattle relish any
balanced ration in which Sugar Beet Meal is used. Its effects are very similiar to fresh June Grass, which, though low in protein, stimulates the milk production of
A balanced ration feed should weigh not over 4 pounds to a 4 quart measure and, at the same time, should have approximately $20 \%$ crude protein or better. The only way this bulk can be obtained is by the use of such a feed as Sugar Beet

For Young steers, Sugar Beet Meal is especially desirable. Experiments on Government Farms show that it greatly quickens their growth and shortens the period necessary to prepare beef for the
market. market.
Guaranteed Analysis o' Sugar Beet Meal:
Protein $\quad$ - not les than $8 \%$
Crude Fat $\quad$ not less than $5 \%$
Crude Fibre - $\quad-$ not over $23 \%$
Sugar and Starch
Carbohydrate not over $60 \%$

In former years we sold a large quantity of our Sugar Beet Meal in the United States where farmers have learned to apr preciate it highly. We have been offered as high as $\$ 45,00$ f.o.b. Chatham, and we could easily dispose of our antire output at that price. But in order to introduce this valuable type of feed to the farmers of Canada we have decided to fix the price at the extremely low figure of $\$ 35.00$ per ton f.o.b. factory; the containers to be
returned to us. returned to us.
We are anxious to sell our meal in Canada, to conform to the wishes of the Canadian Food Board, by whom we are informed that cattle feed is badly needed by the farmers of our own country.
Write for our new booklet which is fully descriptive of the value of Sugar Beet Meal and which will explain how to
obtain it and how to use it. obtain it and how to use it.

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Extend your own subscription for three years. Farm \& Dairy, Regular price for 3 years $\$ 3.00$ Farm \& Dairy, Special Xmas Offer
You have made yourselfa Xmas present of $\$ 1.00$ in cash and I year extra in time, some present. New subscribers accepted at same price.

## This Offer Positively Expires December 31st Don't Wait--Do it Now--\$2.00

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## The Dual Purpose Shorthorn in Canada

 cates that the breed has fustified is from page 6.) admission to the Record of Perform. ance.While the mille records may be satIs actory from the standpoint of a dunt purpose breed, the question will nat irally arise as to what the progeny of such cows is capable of doing in the way of beet prodyction Owing to the short time which has elapsed since the Shorthorn was admitted to the Record of Performance it is diffcult to secure definite information regarding their progeny The more Bo because the calves of bigh producing cows are so valuable for breeding purposes that few of them find their way to the butcher. A few cases, however, may be clted as throwing little light on this question.
Recently a Pennsylvania steer, a
year old, from a dairy shorthorn year old, from a dairy Shorthorn cow, sold at 17 e a pound, which amounted about $\$ 135$. He dressed 5916 per cent, which la a good percentage for a calt.
At the Ontario Agricuitural College, a straight Scotch Shorthorn cow Which had nuraed her flrst two calves produced $6,000 \mathrm{lbs}$. of millk with her third calf. This third calf was a steer. He was fitted for show, and stood first in his class at the Ontario Provincial Show and was first and Reserve Grand Champlon at the West Toronto Show. Had this cow been developed from the start, she would
have made a better showing as a have $m$
milker. milker
in 1917, Mr. T. A. Russell showed three steers at the Toronto Exhibition
and the Chicago International of these steers was champion.
ronto, and second in his class at ToInternational. He dressed 65.46 per cent, a higher percentage than the International Grand Champlon steer or the Grand Champion carload. other of these steers won his class at Toronto and London, and stood sixth in Chicago, while the third steer was second at Toronto and London, second in the Shorthorn specials at Chlcago, and fourth in the open elass for grades at Chlcago. These three high class steers have five half-sisters in the Record of Performance, one four-year-old, two three-year-olds, and two iwo-year-olds. Their average antunt production is $7,895 \mathrm{lbs}$ millk, and 309 lbe. fat. These facts will indicate the possibilities of the shorthorn for beef and milk.
We are asked very frequentily what families or strains of Shorthorns are most noted for millk production. An analysis of the blood lines in the Re cord of Performance shows a great variety in breeding, and indicates that good milkers are likely to be found in any herd where attention is paid to milk production. There are 20 cows, three years old or over, in the Record of Performance with records of over $400 \mathrm{lbs} . f$ fat. One of these high producing cows is straight Scotch, one is straight English, elght are by itrafght Scotch sires, nine by Scoteh topped sires, and 15 out of the 20 have one or more straight Scoteh sires in their pedigree. It may be added that 16 of the 20 trace to fmported Engith b bred cows recorded in Volume 1 of the Herd Book, but the large amount of Scoteh blood in the pedigrees of these high producers suggests possibilities in connection with the use of Ecotch bulls. To emphasise this point we might add that 25 Shorthorn bulls have two or mare daughters in the Record of Performance. Of these bulls, 20 are strafght Scoteh, and flye are Scotch topped, which would show, therefore, that no breeder of dual pur pose Shorthorns need be discouraged it he cannot obtaln Engilish dairy bred bulls, provided he will pay some at teation to the miliking qualities of the dams of the bulls he selects. This geotch blood will also help to mifn ain the beet end of the propenttion. The dual purpose Shorthorn is not a rival of the strictly dairy breeds,

There are not be regarded as such who through my farmers in Ganada inclinationg eircumstances, focation, wish to make other causes, do Bot ture of their business a a inesial feacattle to eatle. These make their business profis steers for beef mant to raise good which will supply the ho to have cows and butter, and, perhapse with milk indtle extra butter whta produce a with the household which helps ont main object household expenses. The tlon and perhaps only, is beet producmilked perhaps only a faw cows are enougk milt these cows must give milk them to make it worth while to these the dual pur farmers sueh as an ideal animal purpose shorithorn is by that name, the sherile not hnown filling just sueh the Bhorthors has been of farms for a a place upon thousands dairy breed a great many yeare. The place to fill, bute a very important put, every farmer cannet already pointed man, so that in the cannol be a dalry: past, we will find the future, afin In the ing a very imporiall fhorthorn play ducer of wealth in this part as a pro consistent performance country by Ite milk producer. The shariteef atid earned for Itself The Bhors! forn has as "The Farmer's Cowers recognition breed has as yet cow, and $H 0$ other the title.

## FARM CHATS

## The Go-By

H. Perey Blaneheres, Manata coun N.as

O
 scompilited more wom tanat cates ome panane on pombly thib be
 Week; and then, when the rain comes that day's work goes into the comes, or, it may be, that day's worls ls done on the morrow, and something elie suffers.
It is interesting to watch one's self to give the go-by; and second, inolined after mature consideration, what actually get the go-by, of compie does things being equal, there is ather eicy to put the extra work or a tend beneflt to some special fleld give the the basis of an experiment that is Which one has taken a special or in est. It is a case of the sipectal inter. ting all the millk. Our Canadian f
extonsive rather than intensive, are ers. Their mind goes to the tife farm Ten acres in oats mean far migheld them than the few rods monere to onions or celery. Nail themare it down to the figures and them right finally admit there is and thay will the profit in the small ffetd in doublete or celery that they have erowing onions In the big square of oats. "come-all-ye" for the oats. But if is 1 remember a few years a fine pateh of strawherries. 1 had produce sold tor well over $\mathbf{t 1 0 0}$ a Theif and it was cold cash. But it wail the job of my life to get a horse was the thase berrles cultivated. It is diffepent now: for the pony is avalfable for that kind of work, But as a toilern rule, it is the garden and the senal fruit that get the go-by, It seem smail less to point out to the rood man ise: unless the table carrols, man that and parsuips, and raspherrles beets, proper cultivation he will personatil suffer on his dinner plate. personally ally a case of "Just as sonn It fil gener the so-and-so done we will all we get it $;^{\prime \prime}$ and the supper bell always rings
firs.

The beginner will have a hard road to travel if he lacks patience, persa tal. <br> \section*{Stable Your Cattle <br> \section*{Stable Your Cattle "The SUPERIOR Way" "The SUPERIOR Way" <br> <br> AND INCREASE THE PRODUCTION OF YOUR HERDS} <br> <br> AND INCREASE THE PRODUCTION OF YOUR HERDS}
 pounds, agatnst a shortage of $209,148,784$ pounds.
Not only is there an enormous market for Dairy Products. The
millions of cows slaughtered for musf of necessity be replenished beef throughout European countries The millions of se replenished, be fed.
Sanitary milk and its by-producte-are-the stock and dalry indistry present and future possibilities of the trom a standpoint of hos in Canada looms to gigantic proportionspean markets-brought consumption and the demands of the EuroIt is un to the brought about by the great war.
and produce a product of high quallity Cand mada to increase their herds market.


Superior Sanitary Stable Equipment is a necessity in the Productisn of Pure Milk and the SuccessfulAccom: modation of Stock.
NOW IS THE TIME TO GATHER DATA AND LAY YOUR PLANS STABLES, NEW BARN OR THE REMODELLING OF YOUN I have prep
Lhave prepared a new book full of valuable data to the Stock and
Dairymen. This book explains fully the most Modern and Methods of Building and the succest the most Modern and Practicai If you wish to increase your production accommodation of all stoek. bank account and your opportunitios, write fornings, broaden your fent to you free. Send now. Write me personally copy. It will be

GEO. P. MAUDE
MANAGER
SUPERIOR BARN EQUIPMENT CO. fergus, ontario


## ONTARIO PROVINCIIL WNTER FARR

## DEC. 6-GUELPH-DEC. 12

## COME and SEE the BEST HORSES CATTLE SWINE POULTRY <br> SHEEP <br> SEEDS

the classes you are most ine on another page and find out what day to attend that day. Consult your

## J. I. FLATT, President,

HAMILTON.
R. W. WADE, Secretary,

Purliament Buildings, TORONTO

1344

## (34)

## GUELPH WINTER FAIR December 6th to 12 th

Programme of Judging in Arena

| Monday, December 9th. <br> 9.00 a.m.-students Judging Daliry cattle. <br> 10.15 a.m.-Judging shires. <br> $10.45 \mathrm{a} . \mathrm{m}$-Students Judging Beet <br> catte. <br> 1.30 p.m-Judging Aberdeen-Angus. <br> $3.15 \mathrm{p} . \mathrm{m}$.-Judging Hereforde. <br> 7.30 p.m.-Judging Ponies. <br> 8.15 p.m.-Judging Heavy Draft. <br> 8.45 p.m.--Judging Thoroughoreds. |
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Monday, December 9th.
9.00 a.m.- $\begin{aligned} & \text { Students Judging Daliry } \\ & \text { Catte. }\end{aligned}$
$10.15 \mathrm{a.m} .-$ Judging Shires. cattle. $3.15 \mathrm{p} . \mathrm{m}$.-Judging Hereforde. $7.30 \mathrm{p} . \mathrm{m}$. -Judging Ponien. g.45 p.m.--Judging Thoroughbreds.

## Wednesday, December 11th

9.00 a.m.-Judging Grade Cattie.
$10.40 \mathrm{a} . \mathrm{m}$ - - Judging Gran Beef Cattle.
1.00 a.m.-Judging Heavy Drart $11.30 \mathrm{a} . \mathrm{m} .-$ - Judninn exeluded.)
1.30 p.m.-Judg.ng 2 -year-eld Clydes-
3.35 p.m.-Judging 3 -year-old Clydes.
4.40 p.m.-Judring
T.

Tuesday, December 10th.

8.45 a a.m.-students Judging $10.15 \mathrm{a} . \mathrm{m}$ - - Judging Dairy Bulis. $10.15 \mathrm{a} . \mathrm{m} .-J$-Judging Percherons. 1.30 p.m.-Judaing Percherans 3.06 p.m.-Juagting Shorthorns. 7.45 p.m.-Judging Heavy Draft. 8.30 p.m.-Judging standard Bred

Thursday, December 12th. $9.00 \mathrm{a} . \mathrm{m}$.-Judging Clydesdale Foals. 0.05 a.m.- Ilngi. 1.30 p.m.-Judging aged Clydestiondes 7.45 p.m.- Juales. ding champoren shield 8.45 p.m.-Judging Watton $\begin{gathered}\text { Whind } \\ \text { Walker House and } \\ \text { Bright }\end{gathered}$ speciats.
9.25 p.m.-Parade Heavy Horses. $9.35 \mathrm{p} . \mathrm{m}$--Parade Dairy Cattie. 9.45 p.m.-Parade Beef Cattle. $9.55 \mathrm{p} . \mathrm{m}$.-Parade Standard Breds and 10.05 p.m.-Parade

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mental to the farmers editorial, is guaranteed reliabie.

Dairy Matters of National Importance Dealt With at Ottawa

## (Continued from page 12.)

Continued the to form the eastorn execuive and men from the west the western exil deal tive. The esstern executive interest to the castern district oniy, and the westcrn executive will deal with matters whitel concern only the western dis. trict When matters of mutual interfrict are to be cousidered both the est are to be cons the western exeastern executret at the same time and communicate by wire.
This report was unanimously adopt The delegates from the different ed. The were asked to get together provicosotht thetr representatives in and appelt in order that a prelimin the Counchzation might be tormed.
ary The Council Formed.
The Council Formed. Stone At the closing seasion wr. sing had house reported that celegates to the been named by the dentatives of their conference as representa the councli: respective Provinces . W. Clark and British Columbia. Alberta: S. H. Shannon, Cloverdale. Pailesen. E. T. Love. Edmonton;

Caleary Saskatchewan:
derson, Humbolt, and A. H. Salmon, derson, Humbolt, and ar McKay, Winnipeg. Onlario: E. H Stonehouse, Weston: Mac. Robertsou Belleville. Quebec: James Winter, Ormatown; J. B. Vincent. New Ormstown, P. Simmonds and W. H. Huggard. Nova Scotia: H. Fautconer and D. W. Murray. Prince Edward taland: J. W. Jones and J. T. Prouth. Representatives of the various branches of the dairy industry were appointed as follows: Boystimead. W. W. Cox, F. Boyes, W. J. Pare, Que.; W. G Prevey, Butce, Ont.; W. A. Wilsoa, Medd, Simask, Milk Distributors: J I. Joubert, Quebec: J. Bingham, OL 1. Joubert. M. Carruthers, Winnipeg, tawa: Milk and Cream Producers: A. P. Hillhouse, Quebec; R. Q. Legget., P. Hillhouse,
Newboro, Ont.
J. W. Berry, Langley Newboro, Ont Ice Cream: J. W, Car-
Prairie. B.C. Ich Foster, Prairie. B.C.
lyle. Calgary, Alberta; W. J. Foster. Hamilton, Ont. Conden

## sentatives to be named.

Officers.
elected the following
The Councll elected H. Stonehouse officers: President, E. A. McKay Weston; vice-president, A, Mc. H Winnipes: eastern executve, Doster; J Stonehouse, P. Boyer, Dor Jinghau, Pare, Coaticooke, Que.: Charlottetown. Ottawa: J. W. Jones, Char . McKay, P.EI. Westera exece, Calgary; J. W. Winnipeg: P, Pallesen, Caigars; W. W. Berry, Langley Prairie, B.
Anderson, Humbolt of a permanent
The appointment of executive. In secretary was left to A. Putnam, of the meantime Mr. as secretary. Mr. Toronto, will act as secretary commitPutn
tee.

## How Financed.

The following resolution regarding Thances was passed: "That each delofinances was passed: gate pledge pecutive will apportion the and the executive Councll later." It expenses of that each member of the was decized that pay in $\$ 10$ at once and Councll shoura the $\$ 100$ on or befor The balance of
February 1, 1919.
February 1, 1912
There was a good deal of discussion over whether or not grant from the should seek an annual grant tromber or Dominion Government. A the members were oppoaed the Countion, taking the ground that the coun it eil would be more independent itce. was free from government assistance. It was finally decided to ask for an initial Government grant of $\$ 5,000$ to be used for organization purposes only, this grant to be made availabie within sixty days. The individual within sixty dged themselves for a total of $\$ 3,400$.
Dotal of Commissloner Ruddick com-
Dairy Come committee highly on the plimented the commiter and expressed the
results of fts efforts and
that the Council will have splendid opportunities for accomplishing valuable putbile service. He seemed to valuable pathe grant to be asked for would be granted.

Tho Grading of Dairy Products. The Grade dairy products in Canads are graded at all it is by Provincial standards, and these standards vary widely. The unanes syoplinion of the daliry authorities have sembled at Ottawa was sor such pro-Dominion-wide atandards for suck prer. ducts, such as. cheese and buter "When our butter goes across to tho old Country market it will not be known as Alberta butter or bastera," Townships butter, or Ontario butter, remarked J. H. Scott, Ontarios ot ficial butter grader. "It will all bo known as Canadian butter, and I be leve we should have a uniform system of grades on which this butter will be sold in the export market.
P. W. MoLagan. of the firm of Lovell \& Christmas, Montreal, spoke from the dealer's viewpoint. "W want to get away from the Provinclal basis and present our whole produof in Great Britain as Specials, No. 1 o No. 2 Canadian butter or cheese, a the case may be. In realizing the ldeal of national grades we must have necessity unfform ideas of grade, particularly as to flavor in all of the provInces." Mr. G. G. Publow spoke for Ontario. Sald he, "One standard ontario. set be for the whale Dominiou should be set
and the same standard should be held good for all seasons of the year. Fiuo cheese can be made in every month of the season."
the season"" strengthen the hands of
"You will ster "You will strenstht," sald Mr. Hodg the produce mercl "if you give him one son, of Montreal, of grades to band on definite system of consumer, as well as to the Canadian consumer, At present to the export market. grades. with a great diversity of gradurer impossible 10 educate cons butter ssk for certain classes grades. cheese. Witn unitorm grades, what the sumers would be askis
want and getting it, that
It was only futing such splenild Marker, who has done sect srading ss: work in introtuctng the grading sye tem into Alberta, shourker reviewed this discussion. Mir. Marker in Alberta the work that has been made throuth and the improvementer leaving the grading both the butter leaving tho creamerles and the cream ieaving thes farms. At first he had only two grades for butter in Alberta, first and second They soon found that there wades and tuuch variation within the grades and the trade was willing to pay more tor the same grades from some creamerimp than from others. Accordingly, is hitd er class known as Speciais was added Mr . Bourbeath, Inepector-Geners wof Quebec, told of their gradis. Thes with cheese in his Provice. The started first in 1911 with thircy sories and now have over 500 factorad grading their cheese. Taking the iding grading their chiles to adopt grading Mr . Bourbeau was sure that he collid Mr. Bourbeau an improvemeat in show as great an Mr. Marker coull Quebec cheese as mutter. The follow show for Alberta butter. work: ing is a summary of has wo. Specials. No.
 $1916 \ldots 132000$ as,.000 a marked in These figures show as of gradiag provement as and it according to cheese and selithg it manager of the grade. Mr. A. Trade,
Co-operative Society of Queber Co-operative socieny which thert Cheesemakers, ed and sold, protessed chese is graded bellever in the pin ciple of grading and the sale woult product by auction. He, toodes ef prefer to see Canadian grades prop tabitialos tin place of the
tncial grades now in use.
H. Scott, apeaking for Ontarlo,

December
mitted that made in the Province. products gra disappointme sreamaries prove the qu ntered butt but the sam experfenced
This was due his was due nent to buy t gradligg syste ess of a joke when changin a change in M apecial
Marker. $W$ P. W. MeLaga del and Geor The recomme ilshed in full and Dalry. D fudging butter judging
suggested. Commtssion that coples of of the varlous of the various
other organiza other organiza
terested in th assistance of $t$ vision in getti tion. It is pre and butter exh ing annual con sociations will going syatem ol Compuisor

Drector-Gen fiscuesion cohiphisory pas spread of tuber He showed tha large abattoirs put of $2,129,682$ them 19 per cen senting a loss
guand against s guand against
lower prices for packed estimate farmers equaled the losses incurr the hogs slaugh added to the fo ereeed $\$ 500,000$. Dr. Torrance among hogs is in percentage of in
lug increased fro 45 in 1918, or ov her reference to made later in $\mathrm{F}_{3}$ Growing out of adopted unanimo "Whereas tube ahown by statist serious losses to and whereas thls cerlved almost culous caitle, ch bogs on unpaste Auets, be it

## "Rneolved

cheese factories chieese factories shonld be rendere
teurlzation or ste mopel from strch tag parposes, and
Government be re covernment be re
ompulsory to pas all daliry factory The following rt Mlopted, most of lose time was lin ause the delegate meed in thelr vie
mitted that Ittle progress had been made in the grading of butter in hila Province, It was optional with the creameries whether they had their products graded or not. One great disappointment has been that a lot of creameries instead of trying to lm . prove the quality of their butter drop the grading. Thirty-five creameries entured butter for grading in 1918,
but the same disappointment but the same disappointments were
experienced as in prete experienced as in previous years.
This was due ft some measure This was dne fr some measure to the
dealers not Hving up to their arree deawers not 1 iving up to their agree-
ment to buy the butter on grade. "Our ment to buy the butter on grade. "Our
grading syitem," said he, "is more or less of a joke, except that the system is theme to be used when tt is needed When changing maket conditions force a change in Ontarlo methois."

A especial committee consisitin
C. Marker, W, H. Scott. Mr. Burbean P. W. MeLagan, W. A. Wilson A. Tridel and George H. Barr was appoint. ed to report on grades and crading. The recommendations will be pub. lished in full in a later lasue of Farm and Dairy. Uniform score cards for judging butter and cheese were also suggested.
Commissioner Ruddick suggested that coples of the grades and score cards should be sent to the officers of the various exhibition boards and other organizations lilkely to be interested in them. He promised the aspistance of the Dominion Dairy $\mathrm{D}_{\mathrm{I}}$ viston fin getting them Into circulation. It is probable that the cheese and butter exhitited at the approaching annual conventlone of the Eastern and Western Ontario Dalrymen's As. sociations will be judged by the toregoing system of points.

Compulsory Pasteurization.

D
R. F. TORRANCE, Veterinary DJ-rector-General, led an interesting pilisory pasteurigatimportance of by.products to paeteurization of dairy by-products to prevent the rapld He showed that tulosis among swine. He showed that the records of the large abattolrs eliowed that last yeaz them 19 per cent wogs slaughtered by them 19 per cent were diseased, repre. senting a loss of \$255,561. Packers gyard against such losses by paying lower pricee for their hogs. One packed estimated this loss to the tarmers equaled 12 cents a hog. Were the losses incurred in corineetion with the hogs alaughtered privately to be added to the foresoing figures, tho total loss for the year would probably excesd $\$ 500,000$.
Dr. Torrance sald that tuberculosis
among hogs to among hogs ts increasing rapidily, the percentage of infected antmals havthg increased from 8.970 in 1910 to 19,**
477 hn 1918, or over 100 ther reterance over 100 per cent. Further reference to thts address will be made later in Farm and Dairy.
Orowing ont Growing out of Dr. Torrance's address the following resolution was adopted unanimously:
"Whereas tuberculosis of swine is thown by statistics to be fincreasing trom year to year and is now causing merious losses to Canadian farmers, and whereas this disease in swine is cerived almost entirely from tuberevlous caitle, chlefly by feeding the togs on unpasteurized datry pro. ducts, be
"Resolved, that the by-products of cheose thetories and creameriea phould be rendered harmless by pasteurization or sterilization before removal from such tactories for feedlas purposes, and that the Dominion Covernment be requested to make it compulisory to pasteurize or sterliza ell dairy factory by-products."
The following resolutions were also Plopted, mest of them with but compratively little discussion, partly befane tlme was limited and partly befase the delegates were pretty well greed in their views.

Oleomargarine.
If ws moved by O. W. Andreasen, tonded by B. A. Bull and carried, That whereas the Federal author:on saw it to temporarily admitt the mutheture and sale in the Dominien

$\mathrm{I}_{\mathrm{s}}^{\mathrm{T}}$
of Canada of oleomargarine; und Whereas the onder permitting sald manyfacture and sale was gruated the present war; and wherens ang ermistice for the consideration an peace terms is now in force; and Whereas on the successeful conclusion of the war, conditions in the Dominion will again become more

## normal;

again become
arefore resolved,
the sald order be reacinded and that the manufacture and sale of tha margarine within the sale of oleo Canada again be, declared illegai
within alx months after the date of
the declaration of pater the declaration of peace, and further that the National Dairy Council be consulted before any legislation is be any way." any way.

Dairy By of Cream and

$I^{T}$Was moved by Prof. H. H. Dean
and carried, that
and Whereas, bacter
conditions of creamery under modern ing, Dlay so very important a part in determining the fiavortant a part in which. is regarded as forming about pasteurizatits value; and whereas the mosition has been found to be trolling bacterlacable means of conthereby improving the fiavor cream, keeping quality of butter; and whereas the expense of such pasteurization is not such as to prevent its immediaie and general adoption by creamery but. ler manufacturers,
Dairy Confed that this Dominiothe system of milik or cream in as pasteurization of all butter made in Canadacture and
urgee lts adoption at once by all creamerles which at once by all
using this mot atroady using this method. That standard tem. peratures recommended be at tea 170 degrees F., holding for at least "tian minutes, or method" 176 degrees F. by the "flash" method."
This resolution created considerable first that the Prof. Dean suggested at mended should be 150 tures recom The western men considered degrees. grees too low for butter required dor long shipment. Prof. Dean thought they were high enough for butter was into quick consumption, but in the casele to their being increased intended for er export butter or butter was decided to accept the recommen dations of the weatern recommenthe temperature at 170 den and set

## Payment by Test.

 Was moved by W. F. Stephen and seconded by A. B. Bull, "Where thepayment of milk payment of milk on the pooling system is an infustice to producers
nelling milk selling milk containing a high per centage of butter fat; Therefore, this conterence places itself on record as favorable to the producer being pald for milk for all purposes of manufacture and for human consumption on the basis of its butter fat content; and further That the various Provinclal Governments be requested to enact such legislation at such an early date as will bring such payment of milk
fito effect." into effect.

## Opposition to the passing of this

 resolution was expressed by Mr. T. A Thompson, of Almonte, who sald that while he approved of the resolution as being fair in principle, he knew the dairy farmers of Eastern Ontario had not been educated in the matter to a point where they were willing to approve of it. Mr. Pallesen, of Cat cated in the if they were not eduit had bran mider dlacnsaton be, as Speaking in support of the years. tlon. Mr. Stephen quoted the results of tests of 8,857 samples, of milk of patrons of cheese factories made by Mr. Herns in 1917. These showed that 102 samples tested $2.6 \%$; $94,2.7 \%$; $349,2.8 \% ; 351.2 .9 \% ; 1.222 .3 \% ; 859$; (Concluded on page 27.)
## $\because$ AN RITERETTNG SHORT STORY :

We cannot prepare any better advertisement for GOMBAULT'S CAUSTIC BALSAM
than the following voluntary testimonial from a man who standa
very high in all business and social circles where he is

No. 2131 Wyoming Avenue, Waahington, D. C.,
November 26, 1917.

The Lawrence Williams Ca,
Dear Sirs:-1 have had GOMBAULTS CAUSTIC
BALSAM conatantly BALSAM constantly in my home for thirty-three years and have used it for a large number of ani-
mal and human ailments. It is by fr mal and human ailments. It is by far the most
effective, relinble and economiaal medital effective, reliable and economical medical prepara -
tion that I hive ever known. It tion that I have ever known, Its persiatent use
for chronic rheumatism, Jumbago for chronic rheumatism, Jumbago, neuritis and
kindred troubles hrine pains in chestes and acute cramps it For sore throst pains in chest and acute cramps it penetrates and
relieves pain. For moscuito bites relieves pain. For mosquito bites, bee stings and
bites of all other vermin it tation. For itching between the tops all ini limbe, it is an intching between the toes and on wounds and old sores, it eliminates ail fresh cuts, blood poisoning and hasteng a cure. A few from of CAUSTIC BALSAM is more effective than haps a bottle of any other spplication that I know of than

Thuly yours, M. J. LAWRENCE.
COMBAULT'S CAUSTIC BALSAM has had a steady, rellable asle In France, where is

 iddren Guaranteed

## The Lawrence-Williams Co.

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Y
OU get more pork to the hundred of feed when you cook the feed for your hogs. They thrive better, are healthier and put on more weight on cooked food. The Acme Boiler is made to heat a hig feeding quickly. It is also handy for other uses, rendering lard; boiling water, etc. A little fire does the work. Inside flues carry the heat round and round the pot. There is no waste of fuel and no waste of time waiting for it to heat up. You can burn any kind of waste wood, corn cobs or rubbish. The Acme is strongly made with cast kettle-smooth inside-steel casing and large strong door. It is
 supplied with or without cover in 30,45 or 60 gallon sizes. Supplied with legs as illustrated or may be set up on brick foundation.
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CLARE BROS.
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## PRESTON

Makers of Hecla Furnaces and
Lighter Day Ranges
"ACME" Farmer's Beiler
ghier Day Rangea

## FARM AND DAIRY

## FARM NoDAIRY <br> The National Dairy Magazine

the breeders themselves. The purposie of the work herds.

Such a plan can be carried out with a minimum of expense and tt has the advantage of being systematic and thorough. Such testing as In Canada, outside of British Little hoadway has promiscuous and irregular and bovine tuberculosis. been made in the eradication of herd Hist in the Dominlon.
The Fascination of Live Stock

 of living W. B. L. Lambita, of Perth Co. Onity when trated this truth very interians ome in Ppoterbero
 for a chat. home of a young man, who was just was modern and ing. Everything aby! but I would like to be a young man starting on a farm like this! exchimully "A Id gentleman. Then he added thoughtfully, farm like this with a great big mortage on who are Tbere is one class of farmers, however, the mortin no danger of losing intereat buildings are in the gage is paid and the They are the Itve stock breed pink of cond to mind a chat we had with the late We.call, Just a fow weeks before his untimely C. Halman, Asmer, Mr. Hallman had accomiplishod death. As a farmor, Mir. Harm was acknowledged to be much; Springbrook Waterloo county. It Just about one of the finest in Wallman's Ideal. As is breeder, repreeented Hallman had accomplished much; but in
also, Mr. Hallma this department he had not achleved his ideal. His enthusiasm for his Holstelas was as fresh as thet enthusiasm for with his firat registered animals in the atable. He had found, as thousanas of onto the the atabie. found, that the farther one delves into the problems of breeding, the mone interesting they furproblems of areceater becomes the field inviting furcome and the greater becomerimentation. The man with a good herd and a real enthuslamm for feeding with a good still better animald, will never lack a wotthwhile objective. Live stock breeding is the most

The Food Controller's Advice
anadian tarmess nave dono won in the past few years: fidanclally we mean. Geen general all sections of the world not devastated by war. Ther frankiy admike it. But they have not been They franky adme their positton is not such as to unduly, tavorsd and tor the almoet insulting atutude afford an excused Controller Thomson daring the adopted by rood contefore the Live stock Contercourse of an address before tye Mr. Thomson te re ence held at said:
ported to have said:
"The farmer should atop complaining about the
the farmer shoul the higher cost of labor. Let price of feed andigher conts at once, and go on him pay these businese because the percentage developing the these costs is not nearly so high of incraas incense in price he hes obtained since the war. He is coining money, and the greatar the war. He his output the greater, naturally, will he makes hils."
be his profis." as this are exceedingly ill adStatements such as the impression already sufvised. They strengthen the minds of city people that ficiently implanted in the mich at the expense of the the farmers are getting riunity. They tend to widen other olasoss of already too wide, between city and the breach, aiready to statements are not true. ountry. Moreover, such stalemproportionately with Farm returns have not commodities and labor. the prices of other come have been realizing repreextra returns that what higher wages for the regular sent merely somwich they have put in, and, for the hours of habor whe history of the industry, some pay inst time in the overtime work of the farmer and nent also for the overtime work of thent is not as his family. That this rate of paym indicated by high as prevala the trekking people attractive would Beem to be waser have bee acarcity of hougos in every cenfully proven oy the scarcity of men in every tre of industry and farmer cannot compete with the rural district. The farmer cannell informed farmer cittes for habor andent of a city rate of wages to knows that the payn the farm would immediately secure extra help ou the the farmer employer. No reduce the net prohowingly employed more labor business ever yot and in passing judgment than it could use at a prods carping criticism, we have on the Food Controllersatives- ofther Food Control. our choice of two allar understand the fundamental ler Thomson does not understa he has no apprecia: prinolples of good busiata, of farm management. thon of the practical pruviver.

The Speculator Must Go

1HE sentiment agatnat apeculation in fate land is growing stronger, particuiariy is The factor
speculation in agricultaral land. The speculation in agricutaral the fore is the neces that is forcing the prob for returned soldiers, good sity of securing land for returned aold the govern lands such as the mpocustors in this eonaection British Colambin ment has not in this connection. The sunset pre has a particulariy onmoun prob by speculation t vince has been more Now, however, the provincia any other in Canada. Now setive campalgn to ope authorities are starting an sotive areas to logilimate setilers, up speculative areas
 finest climates undor fortile is Canads. There are, perhaps, the mont fordie in cana the provincl enough good agricuttural limits to support a Bopmation Columbla is the least turally, however, Bricimi Cohanida Bpecalators, veloped of any sectrontennosi in highi places in tit cause of laxity and rottennosis corner of a large past, have been able sad accessible land. portion of the good sadees for auch land as can s artificially high prices for auch hand as cal purchased.
Standstill. by which the province hopes to com
The plan by whe speculators Provincial Minister of Lands. Pattello, Provincia Minist vaennt agrleultural tello announces that sad the owners required to are being appraised sud them refuee to sell at the appra them for sale. they will be raquired to do nettiement value, they will ber raguired ill be subjoct to 'a In detault of which thery win when will, ini time, peoome burdensome tax, which will, impellod elther to use the lands, they will be compet
turn them to the go
who will use them.
The best feature of thas plan is the provialo The best feature of thas plan Laxation. Properly landa for settlemen cient to free fale lim of fis taxes, both provinclal columbia raisom unimproved land values municipa, from an oupertax on the larger holdings haps, a supertax olties and country would dle land of both eities und In iddition, avallable for productive uas. racts that were gotten from the goverimen racts that were gotcon beljeved to represent fraud, and thess are beuld be brought back into public domain. The very fact that the gover public domsin. moving it all, however, is an indication growing eentiment in favor of making the use growing sentiment in iavor ofition

## Support the Show Ring

THe competition of the show ring has its thrilis and fasolnations for every man who be believe that every good breeder
stock. We at some tlme or other, intertained a hope that bas, at somehomoday, he woild be a successful siow an. Few over realise their ambition an. greatest factor militating againat realization the common bellef that a man must have a car while of show stock before it is really worth his white of attend the larger fairs. That thls belief is comimon is unfortunate. Heally, there well is more comimon vatue and more publingty, as well is mof ertiafaction to the breeder himaelf, in showing tew real good animals than there is in showing whole atring with medtocre indiviauas ia
The Holaboln elasees at the lapt Ca tional were an excellent example of this. greateent showing of Holntefing ever seen in There were 278 entrles and 23 exhibitors. T repreeents an sverage of twelve animals por exhli tor. A good proportion of the exhibitors did not haid half this number. Beveral had only hali this numion, the smaller exhibitors, the Holatela clanass would have been some of their bent individuals. Mr. No of Ontario County, for Instance, had just With one of thene, the two-year-old Princ Abbekert, he was first is a strong two Abbek ark, he very introng competitor champlonship. An even more striking the ldes was afforded by the National it Columbus, Ohfo. The erand champlon bull, Johanna Bonheur Champlon 2nd, bull, Johanas exhibited by Chertnut Bros., of K antmal exhibite one entry fitted in tdes! sho had their with him the greateat sward ent. With thelr one entry they accompli than exhit
ndividusis,
The show ing is an educator, and It moet by it swe thome who compete. Evell if th new exhibltor wins nothing, he will learn much 0 it will belp him at another time. An exhibitor whil showed for many years with poer sucoess at in tells un that he never upent a dollar in fiting and showisg his cattle, even when be til not, get a dollar of prise money, And now, will conslder whit we will de en the show clrcuit of $15 i l$
le land is the fructor the neces. ters, good he govern-
Columbla Columbia
sunset pro ation than
provinela provincia
go to opes ers, Th alley land There is Agrict ie least salators,
ces in tim a large a arge
The rest at can
$\mathrm{g}-\mathrm{a}$ 位ost.

## Ring

 good breeder ned a hope that ntton. Perhape at realization is have a car lost worth his while his bellet is 80 were is more ad f, in showing a als in the lineup of Canadian Nur this. it was exhilbitors. This aimals per exhibl thorspaly niblto been deprived of
Mr. Noel Marshall d Just two entries Id Prince Bonliver fwo-year old boud
tor for the senilat riking illustration ttional Dairy Shoz
champlon Holatela 2nd, was the ont s! of kow shated ast fard on the contir accomplished mort and those who ptis npete. Even if the
iil learn much thas An exhibitor whi or auocess at fint oven when be dil in not too early ter not too early
uhow circuil of $15 i l$

Dairy Matters of National Importance Dealt With at Ottawa
but withont looking up the milk r $\mathbf{8 . 1 \%} ; 1.632,3.2 \% ; 1,035,3.3 \% ; 1.288$ $3.4 \% ; 595,3.5 \% ; 305,3.6 \% ;-185,3.7 \%$;
$211,3.8 \% ; 78,8.9 \% ; 1004 \% ; 26$, $211,3.8 \% ; 73,8.8 \% ; 1004 \% ; 26$, 4.1\%; $41,4.2 \% ; 12,4.3 \% ; 10,4.4 \%$;
$7,4.6 \% ; 6,4.6 \% ; 4,4.7 \% ; 1,4.80 \%$ $7,4.6 \% ; 6,4.6 \% ; 4,4.7 \% ; 1,4.8 \%$
3, $5 \%$. He clalmed that to pay for mil by welght under the conditions revealod by the foregolng figures was manifeatly very unfust. The motlon carried practleally unanimously. Good Sires Needed.
It was moved by Geo. H. Barr, Ot tawa, that,-"Whereas the greatest need of the daitry industry in Canada production of milk, and as the great est factor in the economle production of milk is the cow that can produce large quantitles of matk and fat, it natarally follows that the greatest problem confronting the dairymen of Canada to-dey fo how to ellminate the unproftable or low producing cows from the dsify herds.
"It is generally admitted that the sire is the most important factor in buliding up a dairy herd and also that better results can be obtained by uslig a properly bred pure bred alre than by, using a grade. Two regret. table featnres about using pure bred sires are that in many cases it is impossible for purchasers to get any retable information regarding the mill producing quallties of the dams of the animale offered for sale; and that too nany dairymen apparently do not reavee the imporiance or the value of knowing something sbout the millk producing qualities of the sire's an" ${ }^{2} \mathrm{Be}$ it
Dominion Dalry Confolved that this Dominion Dairy Conference regrets the fact that many breeders of pare bred dairy stock do not keep records cow and are therefore unable by each cow and are therefore unable or un wred dairy cattle purchasers of pure bred dairy cattle with this most valuable information, with the result that farmers often purchase pure bred dairy sires expecting to lmprove the herds, but fail to gualyties of their the anfmals are bred from because produclng stock. producing stock.
speclal effort be made by the that a Sehools, Datry Inatructors, Dalry men's Conventions and other, Dairy avenues to place before the milt pro avenues to place before the milk proboyligg pure bred dairy sires from only the breeders who can shom from liable records of the milk and tat preduced by the dams of the animats 0 . fored for sale."
Carried.
In supporting the foregolng resolution Mr. Barr stated that figures obtalned by the Dominon Dairy Division showed thit in a certain dafry district whers a considerable number of the farmers stopped using grade bulls and bought pure bred bulls at greater cost

## W, D, HOARD.

is with deep sorraw that we announce the death of W. D. Hoard, senier editor and founder of Hoard's Dalryman. Ex-gov. ernor Hoard of Wisconsin was for many years one of the strongest Influences for botter dairying on the continent. On the platform and in the press he never missed an opportunity for exalting the dalry business, or pumping more enthusiasm Into dairy farming. On the Moard's Dairyman farm he practised as he preached and conducted a farm that ls a model of lts kind. He has finlahed hls work and
the record that he leaves behind the record that he leaves behind him of tremendous effort in the
service of others, is one that is service of others, is one that is
soldom duplleatod.
cords of the dams, the production of milk in the district had declined. Thls wulls been from dams have case had the bulls been from dams having good re-

## ords. M.

sults that had described the good re: suits that had been obtained in Brit ish Columbla from the cow testing five per cent
the province now are the bulla in ty one breeder had recommended that no cows should becommended that could not reach be registered that standard of production.

Market Investigations
It was moved by K. G. MacKay, sec that-"Wherens Love, and carried try in Canada has developedy indusan extent that there will be to such surplus of butter avallable for export in the fmmediate future, and in export that a product may be axport in order will meet with favor in forelen which kets and there command the highent market prices; therefore, highest solved that this conference of Dominlon dairymen ask the Dominfon Gov. ernment to appoint a commission composed of butter experts to investi. gate the requirements of varlous export markets and report their findinge and recommendations at the earllest possible date
Speaking in support of this resoly tion Mr . Love sald that most of our information about the demands of forelgn markets, has come through the produce trade. Questions of moisture content, grades and salt mean dollars and cents to the producers. Certain markets demand pro-
ferent qualities in ferent qualities in their butter than
others. An Investigation others. An Investigation by experts on these points should be beneficial.
Dalry Commissioner Ruddick nolnt Dairy Commissioner Ruddick nolnt ed out that he had visited the Old
Country several times to Investigat Country several times to Investigate
theas martere had agents who renort from time to time on market oonditions from time to quirements. Some of these agents, he pointed out. are not dalry erperts.

## Ronemetan sotater

On mote ow P semben wec onded by Jas. Winter, It was resolv. ed that, - Whereas the war debt of Canada can best he pald off by de-
veloping its natural resources, veloping its natural resources, par-
ticularly as having ticularly as having reference to the of the great and increasing wherens the for dairy prodncts and anceaning demand for dairy products, and whereas the
Datry Indastry is badly Dairy Indastry is badly eripnled for want of suitable labor, therefore be
it resolved that this Conference mem. It resolved that this Conference memorlalize the Geveroment, now that peace is nractlcatly declared, to reall soldfers in any way connent possible the dalry industry, which connected with the dalry industry, which Includes promilk distributors, and others. milk distributors, and others, that
they may return to their respective they may return to their respective secunations and so be ready when noxt season opens for a blg output of milk

> Taking Milk 8amples.
onded by moved by P. Pallesen, secsolved, that in Atonehouse, and re solved, that in fature the samples of vided Into three equal pertlon be diproperty sealed equal portions, each the vendor, one to bo handed to municinality, and the thist to by the for testing by an independent anthorl ty should occaslon require it." (Car ried.)
The Conference was brought to a elose by the adoption of a unanimons resolntion expressing the thankry The delegates to Dairy Commissioner Ruddick, Mr. Geo. H. Barr, and other members of the Dairy Commissioner's ataff for calling the conference and for thetr valuable asslstance in makthe the gatherfng the success it had proved.


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Vancouver

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sound, strong horses for next season' time to do this is NOW, next season's work. The know of tor the purpose is

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HE message of Christmas is love,-God s.
mas is love, -our love for one another

## No Room in the Inn

> By Mary Barro HE day before Christmas alway

Ifound Mrs. Marshall, to use her Each year she vowed that never again would she undertake any fustive comparation than coled by the close of the preceding pleted by the chese
week, but each year her eager mind week, but each year her or fascinbetraged ber into the carrying out of
ating littie plans, the ating
which was apt to run into the last
whe Which of December 24th. This year was proving no exception, and started ing packed the for scheol, she was harrying through the morning work, tmpatient to taike that atill awalted her.
"Christmas comes so late in the weok thls year that t did think rd be ready for it." she sald to her hasband their scalling bath and hung them on a nail behind the stove, "but 1 do bellieve I'm more rushed than ever
thl time. There ought to be $a$ few extra days for farmers' wives sand wiched into each week somehow."

You ought to begin earlier or else not try to do so much, restill With easy masculine
Marshall shut her lips tight and with Marshall shut her lips explain. How
diriculty forebore to ent dificulty forebore could she have her Christmas preparaShe had begun her Chrstwas antlized every tions weeks beforg doubt Ben was spare moment No not to have under-
rimht, she ought note taken so much. but It was too late to
perhaps the talk about that now, trouble lay in the
very root of the fact that she had berun early. betore had walted untll the week known Christinas, sould accomplish very little and she would have in as she had done, early in the fall. as soon as threshing was over. ed to her that
than she could reasonably hope to find time for. But there never was any time, any spare time. Take week for example. By proder gifts for her home folks, back East, the week before and sent them off in the mandThls week she had counted own home ing out her work Monday had been Christmas. But Monday had wash day and in the afternoon she had froned until she was ready to drop so as to have a she had fintshon Tuesday. Tuesday she and after dinner had molded butter, and packed eggs, and dressed chickens awd. turkeys for the customers in fown. When the children came home from school in the late siternoon, they brought the pleasing information that Nellie Hunter was sick and that lulu had been chosen to take her place in the tableau at the Christmas enter tainment, and must wear a white dress and have her hair in curis. on Wednesday, besides going over the house each room "a lije sad a promfise," she had hunted Lula's white fos," she had huneak, let down the
fross out of the trunk
fem, and wabled and froned it. And
now. this was Thursday, the day be cookies to bake, doughnuts to fry, a cookes to fanish for Bessie, a doll to dress for Lulu, and some ornaments many of theirs had been broken last many of theirs had bot bought any new ones because she had read in a mag. ones because sio lot of charming ones that of a could easily make at home. that you could easight any candy for Ane she hadren's stockings because she had planned to make a dozen differ had planned ho emade candies. And one to to the week's mending and she knew there

## he had taken down the receiver, she

 heard. Yes? Why, hello! Good morning. That's ine. Famity well, 1 hope? No. the roads aren't so up here in the drifted considerable up here in the bench hills, of course. Down on the benca 1 suppose It's blown off quite a bil Yes. No, you can get through alm. right. Yes, that was quite in storm. Tell you, you'd better turn in at my west gate-that coulee by wison's always drifts pretty bad. Yes. You turn in there at my eorner and gate's through on that rlige. Yes, the gates. just across from rack; I took the No. You'lt see my crack; this mornkids up to school that way my house ing. You come right past my house and then on through all right. Goodyourbye."
"It's Syd Westbrook," he sald to his wife as he hung up the receiver. He bringing his wife and baby home chil morning and he 'phoned trom North' to ask about the roads. Hes a goo deal of a tenderfoot, and then pausstarted out of the door the knob.
ed with his hand on to ask them to "You wouldn't Fiop here till tomorrow. woilate it. It's a pretty long drive for a three weeks' kid and its mother, and their house will 11kely be cold when they get there."
Mrs. Marshall was trimming pie crust from the edges of the tins with a practised hand, but she paused to
upon her husband her tedtgnant gaze.

## 4 <br> THE GIFT. <br> 

"Ask them to stop here until to-morrow? Well, I guess not, with all I have to do and tomorrow Christmas. It lan't two mlles from our house theirs, and if he's got any gumpl and he's got a fire all ready to the and how long will it take to get the house warm?" And she turned back to her pastry board as her husband left the pasm
"The Idea," her thoughts ran on: "it that wasn't just like a man." And he knew the only place she could put a guest was in the parlor bedroom and that the Christmas tree was there, walting for her to trim It It was quite out of the question and the Weatbrooks of all people.

Sydney and Grace Weatbrook were young married people who had mored into the nelghborhood a little more than a year ago. Both were college graduates and were vaguely rumored graduate "all kinds of money." As a to heve sact, it was an ancle of syd. matter of hach large family of his own.' che had all the weallh of the conwection, and Sydney himself, by the nection, ahad bought his tarm, some machinery, and $a$ fow hend of good machinery, had dome some necescary
fencing and building, had no very large part of his patrimony left. Grace's family were caltivated, well to-do people of the sort who tive well and each year spend about all of their income, sometimes even efitti more. That Grace should the helght or's wife seemed they were more than of absurdity with sydney for his half impatient with sydney and for enthusiasm over agricuiture sas for conmunicating what lure had led the Weatbrooks to Invest their money and Wettle down to ranching in the foothili country it would be hard (o say country, it was the coraskrative Perhaps it the land. Perhaps the chriter of that particular pamphies had been a trifle more enthuslantic, a shade more convincing than the a shase of all the other booster literawree over which they had pored for ture and weeks before their deciation days ande. It may have been the plewas mades of the really beautiful scenery -taken, of course, in the summertime -with views of the splendid grain fields of "one of the most fertile val. felas of the entire Northwest," and glimpses of sparkling mountalis glreams "the homes of myriads of streambow trout." Perhaps in thelr rainbow trout, secret souls there burned the Con' ${ }^{-1}$ ry missionary Commission urged upon Life Commissle of intelligence and high idesin the taking up of farm life as a form of social service?

For some reason the Westbrooks had not "hit it off" very well in the neighborhood. Perhaps a too flamboyant notice in the county newapaper of their first arrival was partiy co blame for this. The editor was a college acquaintance of Sydney's and when he met him at the couaty seing and learned the reason of hls being there his pleasure at coming seross a bit of the old life so unexpectedy took shape in a glowing paragraph in his paper in which he dwelt, particu larly, upon the benefit conierreaz upon the community by young people such endowments coming to in the dis. The men felt for Sydney all the dis trust of the Westerner for the man from the East, of the old-timer the new-comer, of the experienced farmer for the book farmer, and tho women seemed never to get aly where with Grace. The land foined the Westbrook's to far corner, but the houses were tor nelghborly running back and forth. Mrs. Marshall had gone her husband, is fr duty boend, to call upon them soon after their arrival it the nelghborhood, and while the stayed out of doors and inapected wis stock, she had tried to visit with
Grace. But Grace's Iiving room with Grace. But Grace's living room
its Art Bquare, Its Minslon furniture, its tinted walls with thelr p graphe of Mona Lisa and Michael A gelo's Moses and Rodin's Pensetry was as allen to Fanny Marihall's eyed, accustomed to a rag carpet and ch ful-hued wall paper, as could well be, and she felt ill at eane in the unfamtliar surroundings, and Grace neemed to her stiff and unsocial. She did bot dream that Grace whis not well day, and miserably homestek sequence, and altogether the vlalt was far from belng a success. Grace han never returned the visit, and this Mri. Marshall secretly resented had met a few times after that it church or sewing circle, but there had been no growing friendliseis, no zeighborly gossiping over the 'phone, nothing to make either seem to the other more than in utter strangel And untll the county paper had ark nounced early In December the biri at the hospltal in town, of a son $\mathrm{Mr}_{\mathrm{M}}$ sind Mrs. Sydeny Westbrook, Mrh Marshall had not known that hat nelghbor had left home.

So when her husband suggested on this buslest of busy days that she ank the Westbrooks to stop over sight, the had felt that nothisg could bo nore unreasonable.

The Westbrooks, of all people," sle (Continued on page 32.)

## The Upward Look

## Glad Tidings

Behold 1 bring you good tudings great joy, which shall be to all people Saviour which is. Christ the Lord a Saviour which is , Christ the Lord. Lake 2: 10, 11 .

## Sages leave your contemplations,

 Seek the visions beam afar!have ceat Desire of nations,
Come and worship!
Worship Christ the new James Montgomery

IHAVE read the story somewhere art when Daniel Webster heard The read Chalmers' great sermon on reason and his the telescope" his reacon and his falth were shaken. ed, who created inine being, he reasonof worlds, each revolvingered systems round a central revolving in its orbit the least of the planets and concern Himself with our betty cares? But the great preacher dellvered another sermon, in which be dwelt on the wonders of the microscope, and show ed that in the rolled-up, withered loat of winter, securely wrapped and protected from the cold, was a miniature world of life ready to awaken nt the orst break of spring. Then the treat statesman concluded that if God could socare for the little insects that glit. ler in the sun and protect them dur. ing their long winter sleep He would not forget immortal souls; and so his talth returned to hm .
How much God ciared for humanity,
this Christmas sease other tells. Whason more than any other tells. Who can measure the "manifest in the the Lord of Glory, "manifest in the flesh." as the Babe of Bethlehem to stoop and assume our human form and become partaker of our nature? No wonder the heavenly loot on that far sway night sang "Tidings of great joy." The day for which creation had waited had at last dawnod. "Glory to God in the Highest, and on earth peace, goodwill toward men." This was the most wonderfol song ever heard by mortal ears, and these the most foyful tidings ever proelaimed to the fallen world.
Joy is the prevaling note of the Christmas season. Good news always creates joy, and the greatest bulletin that night whencr published was on of the birt when the angelic hort sang
bith of the Saviour in Beth.ta
cempuris Jucea, and acrobs the weary still floats of $\sin$. war and bloodshed Joy to the world the peace and joy Let carth world the Lord is com Let earth receive her King And heavent prepare Him room. And heaven and nature sing
day this Criste in our dear land to to hold Christmas season may seem familiar face and loy. They will miss a of the will voice and the touch of the vanished hand at the Christma of the Oh! stricken hearte look up. Chrie. mas hath its message and its glad tidings of great joy for you. Has He led your dear ones on? Then all is led with them, and He has not forgotlen yon: and the same Jesus who coten as the Babe of Both ehem two came and years ago is watiting now to come thto your heart. bringing with Him wondrous joy. comfort and with Him Ship with you and be your guest at the Christmas table.
He comes sweet influence to impart, While He cious willing guest: Wherein to fest one humble heart Hear what rest.
stand at the door and knoch $\quad$ Behold 1 man hear my voice and knock. If any 1 will come in to him open the door him and he with me" Oh sup with condescension. who "Oh, wondrous It has been sald that it is $C$ lhere it Day that holds time togetherstmas was to this dar all the eether. as it looked forward and to carly world the later world looks bee same day true as far as it moes, but the This is whlch we look backward to foy with our Saviour's birth is not greater than the joy with which we look forward to His return, when we shall see Him of "Peace on earth the angel's song wards men" shall at last goorwis toplete fulfilment and war and comshed shall yex the nations bloodbut peace and righteousness more, cover all the earth. Their ancie
And the whole world fing. nd the whole world give back the
song Which now the angels sing.
This was the day that Isalah, stand phecy saw, mountain peaks of pro and the the day wien the wolr and nothing should dwell together in the holy mhend hurt nor destroy is the boly mountain of the Lord glorions hopg of this day that is tho of the Chrie the church, the hope worid Christian, and the hope of the world.
This is part of the glad tidings

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## BRINGING IN THE CASH

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FARM AND DAIRT
reat foy that Christmas brings to us, great joy that Christmas brings sume gethor, adding a Hittle mill if neces Jesus" whose coming we celebrate in Tis happy Christmas season is comthis happy Carism and great glory to ing again in power ang kingdom, and ser up an everiasee as the Babe of Bethlehem shall have the government Bethlehem shail have "and His name upoa er Wonderful, Counsel. shan be mighty God, the everlasting Father, the Prince of Peace."
Beyond the war-olouds and the reddened ways
I see the promise of the Coming Days? I see kis sun arise, new charged with grace
Earth's tears to dry and all her woes efface!
Who waits His time shall surely see The triumph of His constancy. The coming of His Perfect Day shall sweep
away;

Faith, replumed for nobler filght. And Hore aglow with radlance bright. And Hore agiow loveliness bedight, Shall greet the morning $\underset{-}{\operatorname{light}}$. H.

## COOK'S CORNER

Economical Christmas Dishes F we are planning to have something extra and to extravagant, it rill be necessary to substitute some ot the old reliable Christmas dishes with something "Juat as good. Be low we give a
line of recipes:

Stuffing For Fowl
Boll and mash enough potatoes to almost stuff the towl, adding but a small quantity of bread. Season with salt and pepper, one small onion chopped, one tablespoon butter and some chopped celery.

Mook Pigeons.
Mince finely together halt a pound of lean-beef and the same amount of of lean-beef and through a meat choppork by putting
per twice: fitten out with a rolling per twice, ind into four equal portions
pln. divide in and spread each portion with forceand spat; roll each up tightly and form meat; roh eape of a pigeon; use plece Into the shape
of potatoes to form the wings and leg. Lay in a baking pan, and add legs. Lay in a beck: baste frequently Serve with currant felly.

Forcemeat
Boil one onion; drain, and chop finely; mix with it one cupful of bread crumbs half a teaspoonful of sage, pepper and salt,

## one egs, Mince Pio (Meatiess)

Mince Ple (Meatics in water Cook hair a until soft; drain, a raisins, half a cupa cupfur of aet, half a cupful of honey. ful of currancos of chopped orange, a two temon peel, one tablespoonful of ifttie temon peel, one tabiospful of mixbutter, and mix well. Line a ple pan ed splee; mix well
with pastry and fill with the mixture. With pasiry ando panto and press the Cover with ether. Brush over with edges together. Brusi with sugar white of and bake.

Roast Goose (Imiltation)
Parbell one pound of liver, then Ifce it into long thin pleces. Put a arice of mashed potatoes in a roasting pan, cover with slices of liver, then pan, coteifing, and again more liver and stuffing. Keep the layers in shape and stumble a goose. Cover all with to resemble a goose. a thick layer ten minutes with fat.

Christmas Cake (Eggless).
Sift together two cuptuls of four and two tablespoonfuls of baking powder into a mixing bowl; add one teaspoonful of ground ginger and a little nutmes; rub in half a cuptul of butter or shortening; add half a cuptul of reeded raisins, half a cuptul of car


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Thank

Omen." "P when the
ating on ating on nas rea! though is homes wl observed we could same who
our previs the homes in the fig
meant lon heartache, joyousness This yea
goodwill a awful seas errors. ngs more keynote of han excess nas is the

One cup corn syrup, one tablespoon Onegar and a little water. Boff until it forms a ball when tried in cotd water. Then pour thls over one cup of halved salted peanuts and siir of halved saiced peantil the mixture beover the fire brown shade. Take off and pour on plates to harden.
and pour on plates Taffy.
Two cups light brown sugar, quarter cup molasses, two water, sevenviaegar, two tableapl, anarter cup buteighths temapoon salt, Bill first ter, two keaspoonstll when tried in five ingredients until, when tried cold water, mixture becomes an and When nearly done, add but and just before turning ou to pan ad vanilla. Cool and mark to polares.

Frult Candy.
One pound stoned detes, one pound ges, one pound seeded ralsins, one pound walnuts. Mix above thoroush ou, put through meat chopper. Spria te molding bosrd with truit sugar Roll misture, ent in squares and ron each squars in frult sugar.

Favors Hot Schooi Lunch commenting on our article on Nhe Rural Hot Lunch," Wheh appeas $\mathrm{Me}^{\prime \prime}$ has the following to eay regarding hot school lunches:
"The rural schools, especialiy from this time forth and on through the cold weather, need some syatem of giving the children at lesst a warm drink. One of our teschers an unquallout one winter and it was an very first fed success. I taink is that having argument in its favor force the chil a cup of hot cocos wil tore to eat dren to take the proper time to bat. Children, as a rule, are in wuch "dry hurry to get at their play, iunch" is disposed of in the quickest way possible. They are as likely as not to "eat as they run, very oken throwing crusts away because tak if too much time to chew them. But If they have a hot drink they are bound to Ilnger long enough to at least cbew their food, and even though they do folt it about immediately after, l'a one better than bolting it and lesving the stomach to do all the work.
of course, to a long way ness. It doesn tell what may you know, are offert they com here's wishing Home Club and and Dairy a

Music - The $C^{\text {OMEONE }}$ write the The great mu masle as "the
mankind by wh made equally in on the other har Cerent nations a muste on the The ideals, amb the race are rel tourtom
and cultured eit

## HOME CLUB

Thankfulness-Our Christmas Keynote
$O^{\circ}$ UR Cariscuas thia year will sure.
is savor more of what originalily intemded to savor ot. viz: "Peace on earth, goodwill to men." During the pasi four years, when there was everything predomin we had earth but peace and goodwill. We had almost forgottien what Christ mas reaily shouid feel llike. And hough in our homes, especialiy the nomes where there wore chiliareh, we observed it to a certain extent, stili we couid not carry It out with the saur whoie-heartedness that marked the nomes that did not hars. Few were in the ighting dine, have someone meant lonelingess and in Christmas meant
heartache, rathers than longing and joyruache, rather than the gladsome
joynness that it hitherto giadlemen joyousneas that it hitherto spelled.
This year we will feel the peace goodwill as we could not during the antulu season of war and fitaring attending the
terrors. But ings more appropriately it our feel keynote of our Christmas season be
that of humble thankfualness, rathere than exceess of joy and hularity. Carris it is right that it should bof all, an ever we are, wherever we live and in whatsoever station of He we find our selves, we will celebrate Christmas in some way. It marks the greatest step forward in the history of humanity been going on steadily for that ha -the change from coldness year selfishness and class feeling to a conception of the solidarity of the humarr race, and the bond of sympathy and fellow-feeling that should unite it. are apt to forget this. Existence is atill a straggla for the great majority of people. But on one day of the year it is well to forget the struggle and to live for 24 hours at least, with a kindiler feeling for everyone and with greater self-forgetfulness.
It is no foolish habit to make Christmas gifts (unless carried on in excess of our meaus). Even if we don't like those we receive, and can ill afford those we make-the giving and re-
celving are well worth while. celving are well worth while. The gift constitutes one definite act of unselishness. Not the less good gift we can bestow is that of good wishes-just merely good wishes!

A funny Christmas it would be Without a wish from me to thee;
Without a wish from thee to $m e$, Without a wish from thee to me,

Of course, wishes alone cannot mo a long way toward starting happt hess It doesn't cost snything to scat ter good wishes-and you never can tell what may come of them. Wishes, you know, are very much like birdsoften they come home to roost. So, Home Club and every reader of Farm and Dairy a very, very happy Christ-
mas.-"JUST ME."

Music-The Universal Language COMEONE has said, "Let me but Write the songs of a nation and care not who makes their laws The great musician Liszt defined music as "the univeraal language of mankind, by which human feelings are made equally intelligible to all, whille on the other hand, It offers to the dieferont nations a universal language." Cartain it is that the influence of masle on the national life is great. The ideals, ambitions and culture of the race are reflected in its musica! trpression, from the savage with his tom-tom to the most highly civilized and cultured citizens. "The strength ot the British people to-day," said a

## T The

that for the past 800 yue to the fact est music has been' made and offered in praise of the King of kings and While it is
of music on the natlonal the Influence pronounced, it is equally ife is very music in the bome creates true that fal refining influence creates a wonder. bers. A song, hymn upon the memmental selection hym, or an instrustrings and fills us withes the heartout and live more nobly desire to go the home brings an air. Music in ness and companionship of cheerfulitself to congenlal assop that lends general uplifting tone. If there is one tone
other where music more than anplace it is In the farm car fill a large many elty homes whouse. There are untouched for weeks are the plano is cause there are so many a time, beto take up the attentioner things young people spend the majority of their evenings outside of the home On the farm, however, there are not so many activities to call the youns poople elsewhere, and many delightplano after supper spent around the at course, in order to enjoy music. must be able to play. Ef the family
who has child all, however, shonldion for masie at portunity if at all pose given an opa little musfeal training, as money in. vested in suc̀h training, as money in well spent There is another point which is the case fo one is it not too often cal end of the home life is left musiFoung folks. Father and mother may hard day's work buing after their gather the chlldren around the pland be fust as reanlonally, would this not be fust as restful as sitting down to Do we sing enough? I cendency to leave all our there not a making us public gatherings insing for life be quite of it around home? Would would sing as grey and heavy if we pleasure to hear mother singing is a she goes about her work, and father and the young people hear her
singing, they are whistle they are much more ilkely to claimed that the new work. It is in Washington, D. new Navy building with an actus, D.C., was speeded up work of $\$ 1,800$ gain in transportation Work of $\$ 1,800$ just because the men
sung at work. Singing one a batter outlinging at work gives one a batter outlook on life and keepa one's brain clear for sound thinking. place which musi to reallze the large place which music should fill, in order fluence may enjoy the refluing influence that makes for good fellow ship and cheerfulness in the home and which meney the higher things of life which money cannot buy.

THE EARTH HAS GROWN OLD earth has grown old with it burhe heart of the jewel burns young: And its soul fill of musie breake tor When the song of the angeis is sung. it is coming, old earth, it is coming to On the snowflakes that cover thy sod And the white, Christ-Child fall gentle And the volce of the Christ-Child tell That mankind are the chlldren of God.


When the silivery
have pealed,
mankind
God.

[^0]
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## CHRISTMAS P TALKS <br> 藘壁

Origin of the Christmas
By Marion Dallas．
T HE Christmas tree is not quite so old as Christmas，though legends
of the use of the fir tree as a
ages．
There are several stories of how the tree as we now know it began．The most beautiful of and St．Winifred was an English knight，who left Wessex in the eigherman forests and der through the German Christianity to preach the gospel en．One bright win－ all who would lassen．One through a fo ter night he was fth his few followers． when he came upon a group of men． worshippers of Thor，the god of thunder．They had gathered together under a great oak pagan belief． according to their pagan belief．com upon the scene than he rushed ward．rescued the innocent little vic－ tim．and．with mighty blows．chopped down the＂Thunder－oak．Winifred discovered great oak the back of it，standing green and erect．a young fir tire．
those prom this night this little tree shall be your holy tree．It is the wilt of of peace，
it．It is the sign of endless 11 fe，for
It points 10 Its leaves are ever green．It points Heaven．and shall
of the Christmas tree was not univer－ sal till 1444．A tree was then set un d In the middle of a pavemith other green leaves．From this use house finally taken bark into the oust decorated with candies，glistened and enhanced its brightness．
enhanced its brightness．Winifred to the children this Christmas when are
tree．

A Ruthenian Christmas $W^{8}$ meta W probably think that Christmas ways celebrated on December Christmas Ruthenlanst however．keep a people of on January fth．of whom there Russian origin，of whom the Ru colony in Western Canad the reform en glans have not andencestors did a long time ago．The Russian calendar th now 13 days behind that of the thetis the Christ an world；hence Christmas falsity of the Ruthenlans be lens to the．Russian orthodox church For 40 days before Christmas，or they Nativity as they call the festival，time observe a strict fast．During this time they use no milk，eggs，meat，butter or cheese．They eat fish，however，ex， when only bread and vegetables are when
Christmas festivities last for three Christmas festivities Eve a midnight days．On held in the church．There service is held in the people stand are gout the service，the men at the trout and the women in the rear．Op front and the women in thinly，settled country districts ten in thinly settled country district
to attend the services that all cannot et in the building at one time．Then bonfires are built outside and then ing to shippers take their the long service the service．When the long service is over，the people break their fast Christmas is a family day among the Ruthen＇ans，just as it is with us．At er a few hours＇sleep．people gathe at houses of friends for the Christmas celebration．Ruthenian marry your and it is no unusual to be represent－ ed at these family gatherings．There is always plenty of food，consisting of boiled fowl，roast work，various ore
 cheese and soups，but no pastry sing cakes．After dinner the me ll com－ paniment of the balalaika or three stringed harp．One pretty customs is the singing of Christmas carnal tel groups of little boys．These little tel lows go from house to
Christmas Five，singing carols before Christmas Five，singing carols with the earl door，and are rewarded they put init of a few copperistmas collection for the poor．

The Legend of the Mistletoe
HE mistletoe，plays quite an fm portant part during the
mas season，but many of as do know just how mistletoe custom originated．Scandinavians claim that they were the originators，but there is an English legend which dates bact
to an vel earlier tate．
According to the English legend， Chem，an ancient Druid high priest， helm，an a great temple in the forest． where the taught young men to be where priests．So popular did this come priests． temple become that half the young men of the countryside were leaving men of the countrysople and becoming their homes and people and great need Druid priests．Then in camps to bunt of the young men fish and to plant，and．above all，
and fish here were 50 many that they de han young men left，that they de chided something must be an ancient witch and asked her help．Her advice was： ＂Pick yonder mistletoe that grows adze of the forest round about ire temple of Chem and the fores there all around and about well hidden until the young men，coming forth from the forest each nigh inter the food to the temple，ard ．They will mistletoe yon yous you．whereupon do you scream right lustily and the young men shall be yours．， The young maid mistletoe on res vice and hut the edge of the fret Then，standing under it，the young men felt impelled to kiss the maidens who stepped forth to greet them．The who stepped instructed．screamed lustily and Chem and other of the old Druid priest rushed forth．fearing their young men were being murder－ their young men were old Druid e saw ed．whir men embracing the maid their young men them away，for they ans they dove among them who
had aught to do with women．

FARM AND DAIRY

And so through the peculiar in fluence of the mistletoe the maddens－ won back the young men；but the caus－ tom of hanging up mistletoe was kept up and later，after the birth of Christ and the introduction of Christianity， the custom
mas festivities

## No Room in the Inn

## （Continued from page 28 ．）

ejaculated angrily，and went on with her pies．And then，just as she was stooping to put the pies in the oven． the seemed to bear the words，inn． was no room for them in the inn
She shut the oven door with a bang She shut the oven door with aments．
and then stood a few momindow thoughtfully gazing out of the window at the familiar again beginning to sift slow is tow she she the end of the back porch and rang the bell that hung fere in the parlor back to light was in the kitchen bedroom．She was again，getting potashand appeared in net when her summons．
answer to her summer
answer to her summons．inquiringly；
11．Fanny？ten thinking about the West－ brooks＂she said，＂guess yon them to stay，＂heartily，＂and
ter get thigh＂ ter get them to stay．
＂All right．＂he said heartily，＂and
＂An hands are better thar
hands are better than earful how much
Well．It was wonder Well．It was limed that morning and what a good time they had doing it． Ben cut out cookies and Fried dough nuts and bragged．Man fashion，of the wonderful cookint the had do bachelor he was homesteading in harry and nerv－ days．And Fanny，her worry her like a garment and she flew around and set Garment and superintended Ben and the tabs and of kinds of fudge and made a of animal crackers for the feed a lot of animal sewed the but－ Christmse tree and sewed the even tons on Freda Bessie＇s kImono before cid a little on Westbrook＇s pang round－ they saw the of the woods at a guar－ ing the corner of and when they came ter after twelve．And when she and Ben up even with the house，she the stop both ran our and one glance at the pale ping over and young mother made her lace of that she ought not to go a step knew that shay and the look of utter farther that day，Westbrook＇s face relief on blush as she realized how made her had failed in simple neigh burliness．
Once inside the parlor bedroom，she
Once inside the parlor bedroom th． helped un baby and said to Grace：
died up baby and said ＂Now，Mra．Westbrook，you＇re going
tight straight to bed，and in a few fight straight to bed，and in a few
minutes I＇lt bring you something hot
 all the sleep he wants，Ill look after him while you rest．

Grace was too tired to resist，and baby fed and made comfortable，soon went to sleep again，while his mother raised herself from the pillow her host－ sip the cup of hot chocolate sank back ens brought her and then sank
into delicious，dreamless sleep．
＂I cant begin to thank you，Mrs Marshall，，said Mr．Winner，and as he they had finished dinner，and as spoke there was a ding over to the house his eyes．＇m going as e are and to ge now to see how things are and folk everything all ready to take mare cot home tomorrow，and stay there to venient for you．
night fast as
＂Stay there tonight，by yourself， ＂Stay there tonight，Mrs．Marshall Christmas entire sincerity．＂Why，no deed．It＇s perfectly convenient to you here and
anything else
And then when Sydney had dr off．Ben came in and washed dishes while she dressed Luth＇s
and finished Bessie＇s kimono． and finished Busies Grace appeared three ching color in her cheeks， charming color in perfectly rested declaring she was in her life．
and never a lieauty of a tree in the bedroom，＂she salt
tree＂Yes，＂said Mrs．Marshall．
＂Yes，＂said it out into the parlor，
of your way this evening，and I wi trim it while Ben and
at the entertainment in my way Grace．＂but aren＇t you going

## entertainment＂＂

＂No．I guess not，＂said Mri
hall slowly．She did want to
Freddy say his piece and see
the tableall．＂No．
stay home and trim the hack
．＂Would you care－would you
Would you care－woud it and you go Sydney and me－rimed inst love to to the schoolhouse ${ }^{\text {sen }}$ mind
Mrs．Marshall thought of her entry adore of ornaments－she hadn＇t had time to make any but the iced animal． crackers and hesitated
ald at once：very tleket Mr ＂Why，that＇s the very it wont make West brook．
you too tired．
＂Oh，no．＂said Grace gaily TII make sydney do
just he heal drove an are
Sydney drove un presently and with Marshall went out they did the chores his team and then they came in．$n 15$ ogether and Meanwhile，Grace ha found a number of things to to tor found
；
 ．合
and
to drink，and if Mr．Baby has not had

## 1

mother
tron ha
been been
baby
＂Is $\stackrel{\text { His }}{\text { His }}$ to keep Marshall
per，＂twa his Ufo， loge，and farm twelve
chap． tone that greasing understan reached mont，and cosy so th Freddy al remember beautifully tableatt，at the other Grace rose and in a Mra．Mars！ ＂I Just roe and se ald when t and the do ＂Beautify gratifier it y prettier the
had crime ＇You don＇ to me to ha as it were．
cate little ＂Oh，I had suit case，a box of choc to invent so too，just be some Christ too late to tr youngsters，t this minute ＂Went，Just
and bsen admired to even his Iren had come home from the chilasen wild with dellight it finding baby established in the house. "Is ho ours, Mother? Did S
Claus bring him?" asked Hittle Lulu. to keep," sald to love, but not ours has only lent her mother

Santa as only lent him to us."
Marshall "as throok tells me," sald M per, "that the men came in to suphits life, except while on a farm all lege, and that he has work at col farm every summer for the on twelve yeare. I thought he was a city chap. And his wite knew from his tone that he and his guest wers progressing as rapidiy towards mutual inderstanding as were she and Grace It was not so very late when they reached home after the entertain. cosy, ovey so they sat for a little, talking Freddy almontig, and telling how reday almost forgot his plece but remembered It just in time, and how ableau, and how did her part in the ableau, and how well Bessle and all Grace rone big girls sang. Presently and in a few moment the bedroom Mrs. Marshall moments summoned Mrs. Marshall through the crack of "I just
Just wanted you to look at the tree and see whether you like It," she
sald when they were both in sald when they were both in the room "Beautiful," whlspered
shall. It was surprising Mrs. Mar prettier the tree looked haw much prettier the tree looked than if she
had trimmed it herself

> "You don't know what
$t 0$ me to have it all done,- by it is as it were. And what are all these
cute itttle bags? cute iittle hags ?"
sult case, and Sydney bought in my box of chocolates in town and i big to invent some way to put them had the tree. We got a box from home, the tree. We got a box from home,
too, fust before we left town, with some Christmas records in it, with too late to try them to-night?" It's getting pretty late
youngsters, they ought to be in my this minute but we might be in bed Well, fust one then to-nieht, the rest to-morrow," sald Grace. So presently Fisfe Baker's lovel tones filled their Ittle parlor, and they all went to bed with "Silent Night
Holy Night," rineing in thelr Holy Night," ringing in thelr Night And somehow the thought of the lit Ue babe asleen in the parlor bedroom their hearts and gave a tender signi flance to the new friendshin that was taking root there.
Mfi. Marshall's everything is," was that Christmas last waking thoupht how near there came to bein. 'no room for them In the ina.'"-Farm,
Stock and Home. ck and Home.

## Value of Good Views

A neronr trom the wheosatin Station gives the followisg Inter cating story which demonstrates tarm. farmer is southe found it necessary to more to in who er elfmate, was very desirous of sell lig his farm. A buyer came to the farm one day and tooked fis over to hls needs and thought it welt suited fumlly to tho farm sish to bring his permanent home. Howeke it his they came to close the deal, the when or aad the buyer differed by the farmA fow days later the by $\$ 2,000$. Atood across the ror the barn, which wis struck by llohtning the house, to the ground. The ling and burned and the bain was a serer of the sale fumer, and it was with blow to the that he changed wis with relactance of to stay on the farm plans and decldSome days later
to the farm to ses the buyer returned ef would not consee whether the farmhet upon talking the his former offer, letter told hilm that he had deelded to

FARM AND DAIRY
rebuild his barn and paint his farm, buildings and and paint his farm the stipulated prices he could get Just as the price.
house, he sald, "My, but leaving the magnificent view you have from is a front porch. I hadn't noticed from this How we!! the view ts fram it before. two elms. How blue the laked by the distant hills must be twenty. The away." "Yes, that miles the farmer. "It a fine view," replied

## house site. They iphowas about the valiue of your tarm the cash

## Removing Kinks From Kitchen Work <br> work beneftes thens woman's

## "W

 it is kitchen is our workshop, and wife on the farm while for every houseto have as many conveniences as portsible in that sible in that workshop. There are
many home many bome-made labor savers which might be installed fa our kitchens Without any great outlay. We will mention a few of them in this article.

Folding Ironing Board.
and yet how many is no small task, who have not a convenlent there are board. A board supported ironing chairs is often used or fust on two chairs is often used or just the or-

whisch folds low for comfort. A board not in use is out of the way when while. The diagram herience wort his device, which is arewith explain d. It is an important imply construc the board placed at a convenien helght for the user. Whe convenient Cor ironing, the base When in position board of the wall. Whe on the base. the board is folded up against the wall and held in place with a button wal some kind.

## A Dish Drainer.

Perhaps no time spent in house work is more begrudged by the houseand wiping of dishes to the washing and Wiping of dishes. As thassis is a a doy, anything be done three times Ilghten the task should will help to lighten the task should be welcomed by all of us. We understand dish

## 

518 up. This really does not seem largo investment when one considery What a boon it should prove to the
housewife. But those not see our way clear us who do such a contrivance may still list in our labor considerably by the ughten dish drainer, such as the une of a shown. It can be made by one here ordiaary good-sized biscult using an racks may be made with poft . The or No. 14 wire. Ly using a patr of proper shape for forming into the These fit on to the edge of the racks. hoid the dlahes ont of the a mana and compartment for knives water. The spoons may be made wity porks and Ung, or by punchlog hole poaltry nettom of a tin can. Ag holes in the botwashed they are ateor the dishes are scalded with het Fater, in the racks, clenn and Iftroses.
"I didn't realise tharn gone." off the beautiful that the bara cut or. They tall view." sald the viatbetore separating awhille longer but agreed to pay the the buyer had ed price for the farmer his atipulaThis incident shom
to the saleability of thew views add sides, views when the farin. Become distinctive when well framed be bome. Preserve the vew the farm


Blocks for Raising Tables. usually too tow for and sinks are when the hounewife working surfaces Working surfaces are often respons ible for tired backa and roupons shoulders, because of and rounded stooping and the strain the undue and shoulders. The trin on the arms be raised to a comfortable table can the use of blocks of wood. height by are shown herewith, one belno typei of wood with a socket into whe block table leg fits necurely, and which the a block of wood with motal the other screws or nalla for fastening on to the
table leg.

A Unique Dinner Wagon.
Throughout the nummer and in some cases all the year round the

meal is eaten in the dining room. This
entails a great housewite in the prepapp for the meal. We recently noted a dencrip tion of a step saver in one of oipUnited States saver in one of our was in the form of an improvised dinner wagon. It was mado from a sides of the carriarriage. The reed corner posts fitted were cut off, four on and the top was Andeboarda put shelf. The whole whished with a oak staining whole was finfshed with page shows the finlahed pration on thls a contrivance of thed prodnet. On may be placed on this kind, the food may be placed on the top tray and the not happen to Even if a person does rlage the idea mave an old baby carrage the idea may offer a nuagestion
to the "handy" mar. for working out man around the house for working out some such scheme. A Cold Box.
Unless one has a refrigerator or lce box of some kind, endlest trips to the

(33)
cellar with tood is a necasity. In
cool weather, however, $a$ cold sox would be found to be ailt cold box ence. An ordinary quite a conventused. The box is fitted to box can be of one of the kitchen to the outside dows. A north kitchen or pantry winocation. The window sill the coolest by a shelf, which is sill is extended wooden brackets. The supported by on the window sill and cold box rests shett and is fastened to extended casing by screws or nalls near whdow and bottom of each end of the top During warm weather of the box. is not in use it may be when the box sired. The hor should removed if deroot to shed the raln have a sloping tilation are made in Holes for venscreened. Ratsing the the end and access to the cold by the diagram. By this arrhown by the light from the upper halgement window only the upper half of the would need to be avaliable, so this

To My Plum-Pudding

$T$HERE was a time, O sweet, at-
tractive sdible, When-on your welcome annual appearance,
With tireless energy and zest incred. ible,
made of you a most, astounding
No thourhe
No thoughts deterred of fruit and nuts to follow-
When I perceived you, crowned
with holly with holly sprig-
tackled you till I could scarcely as, In fact

Then came period when wh.
came a period when with caudious glances, tions,
chances unaccustomed care the chances
of sundry pains, digestive pertur
still did I lo
your magio, your magio,
stil) hailed your odorous advent with a cheer tragic
It was, I made excuse, but once a
year,
To-day, as then, 1 offer you the bla-
For gracing every feast of this falr season:
But as for eating you, I will not risk
or anything, old chap-and with isood reason.
when, all resolve orant merehe the kitchen's fragrant merchandise
me dreaminan, you will set me dreaming-
old times' sake, I might have-
fust one slicel


- Belected.
the rinstog water bling is put into
houtiohold ammonis. adding a littlo

FARM AND DAIRY

When cloud-banks blot the sky dull grey, or whistling winds make outdoors disagreeable, how cheery and exhilarating are bright lights and sparkling fires ;

And in these soul-trying days, how welcome is the cheery brightness-the soothing caress-the soul-satisfying message-of the music you love.

So this Christmas you need music more than ever-good music, that brings the spirit of chrisic of

## The NEW EDISON <br> "The Phonograph with a Soul"

This wonderful instrument brings the beautiful world of music into your home-Re-Creations of art of the world's greatest artists. does not merely imitate-itactuall ear cannot distinguish utter fidelity that the human ear The New Edison.
between the living artist and The between the living

The true spirit of Christmas
New Edison. Let it sing its message of hope The New Edison. in your home this year.
and fauth and
Mas wer send gue a complimentary, copy of our mvical May wer send magesime "Along Broadway"
"agazime "Along Broatuas"
THOMAS A. EDISON, Inc.,
ORANGE, N. J.

## TWEED Steel Cheese Vats <br> (Patented)

Our long delayed shipment of


Tin has at laat arrived. While it lasts we can supply you it lasts we can with our steei Cheese promptly with our stect Cheese and Vacs. An from England for at least six mouths, fast as we make them, hour vats now. We are bhipping them out, as last as blame us if yot the wise ones who know the th situation. to the wise ones who know from now and can't got it. At money. order s vat three monthas none to offer for love or money. they are golng out w't even wait to ask prices.
Send your order, don't even DO IT NOWI
The Steel Trough \& Machine Co., Ltd. TWEED, ONTARIO

No business was ever so great or powerful that it oould buy all the good advertising space and so get all the good results. There's plenty of chance for every good starter.

## Pgutray

## An Egg Ration Contest

THEEIghth International Egg Laying Contest held at Victoria, $B$. C., Is now off to ${ }^{\text {a }}$ good start with 40 pens entered; 21 of the light With to penseties. 20 of which are Weight variecies, and one pen of Motthed Anconas and 19 peas of the Saavy weight varieties, inciading Wyanweight varise, and Reds (six birds to
dottes, Rocks, ane from attes, Rocks, of the entries are from British Columbla but there are also pens entered from Oregon, New Mexico and Alberta. The contest ration fed this year is as follows:
Scratch food - Equal parts by weight of oats, bariey, cracked corn, weight of Dry and wet mash-Oats and wheat.
(ground) 40 lbs; bran, ${ }^{22}$ ths: (ground) ${ }^{40}$, bsis seot scrap, 15 lbs. shorts, 22 ibs.; boor ; total, 100 lbs. Charcoas, Wet mash is fed Monday, WednesWet and Saturdsy mornings. The wet day ah ted at each meal welghs (dry): mash fed at welaht hreeds, 18 lbs.; Class 2 , heavy welght breeds, 18 lbs., Class moistened whe med chard, ad. ub.

## Cooperative Storing of Eggs

WV ${ }^{\text {HY should }}$ not farmers store their eggs in summer when the prices are low and sell them again in winter when prices are high? Many are already doing so. The Poaltry Department of the Nova Scotls Aerloultural Collese has ad vanced the programme another form The Department is assisting the farmers of the province in the cooperaive gathering and storing of eggs daring gatae nenson of plentifal supply. DurIng the months of April, May and ing tune, the eggs are gathered and June, in tanks with water glass and stored insposed of during the season of are dispose the months of November. December and January.

By this means the Department has aeen to heip farmers to obtain a been abie for their eggs and to sup beiter price for theiret at a time when ply eggs to the martiet ata the season eggs are scarct 1817 and 1918, Mr. J. P. Landry, of 1917 and 1918, Multry Department at manager of estimates that over the N.S.A.C., estimate handied in ${ }^{15}, 000$ dozen ergs whe the farmers of this manner. were able to do in cooperNova Scotia the department, independatton With the departations and egs ent farmers organizald be able to circles everywhere, intiative. Such a do on their own ind to be carefully venture wou in advance and perhape planned out in adinee small scale at experimented with on a serclal venture frst Any new ce before it may be requires experience before scale-s. $\mathbf{C}$. taun
w.

Turkeys, Geese and Ducks

TURKEYS, geese and ducks ahould

$I$be more generally raised. They furnish the cheapeat meat, and duced, considering labor andice. generally sell for a high price. Turkeys greatly ald in combatian insect pests, as gran in conserving army worms, and aiso in conserve The the scattered graina of tae the farm best breeds of tarkeys for the rarm gere Mammoth Bronze, Bourbon Red and White Holland. As the Bronst are the heavielt, they are the yous popular with turkey ralsers. A youk tom with three or four eariy-hateating tom woung hens makes a good breeding pen for the beginner.
Geese will help to get the maximum
Geese from low, marahy lands. They returns from low, mar of vegetation not
teed on many forms
ased by othar atook. Their tat he two leading very valuable. The two fimbden. breeds are Touiouseese have bees Young Toulouse 28 pounds each by made to average mating, one gander December 20 . fur geese gives best roll with three They do not mature unt sults. They do old, but will breed about three years id. The same breedwhen two years old for elght or ten ers may be kepl
years.
Ducks grow the most rapldily of all arm poultry, and furnish a desirable; rariety in the fsmily food supspare保 W To Pelin and Roven, or called Heade" they are commonis cal sis They will welyh from five one pounds in ten weeks if well foo. mature drake is mated with about
ducks for best success. Breeding stock of curkined durins and ducks shoald be ober for beat re November thts time cholce birds tise sulta. Ah before being put on ase be bought bel. N.

Advice of 40 Years Ago is indeed intereating to know, th these times of changes and improve these dmes that the advice glven sor 40 years ago was generally very bet been ble, and much of it hat day. Here changed even at the
are some samples:
After all sald and done, in regard fattening fowls, iter food for whether there is any weet corn meal this purpose than during the day, no Feef it frequently dur imes, beginaing less than four or aving and giving the early in cae mar. posit ch as the towis ble Give only as much as it raw. will eat wih a not ground 100
with a liftle water.
"The droppings of the hen roost are the the best fertilizers that ac amongst the farm. They are fully cumulate os the Peruylan Guano. Be aqual to the best ing too powerful to be we proporion thruit he composed soll or muck to of two parts of good thus prepared one of the dropplagit insaluable tot It will be found alacilly strawberies any crop, but espeche alk the farmet
 who peryty his fo handles, wagons, trees, fences, plow handies, wasond etc., subjecting them to acciang their disease, and of course wast if would valuable droppligg, whether to wout to not be a-prontable house? Thisk build a comfortable hen housure"
the matter over at your hens that wero
We don't believe in hens enat were. atched after April; ,irem middie of ing plenty of eggs from the following October during the monthat ts surels When eggs are high. period when arlu strong advice for a period when arb ficlal incubation was practioally us known.
"We are not particular as to breed. except that we want large, lively hens We change cocks every year and look for good-sized smart feilows. paragraph would be contradietod the offered at the present day, whe medlum-sized hens are adis andis when changing male blood apnoal might mean ralnation.
"We love our hans, keep their hounes clean, and save their dropplasy hounes clean, asertiliser on the tarm"

The writer has aiways cautions agiona to start in a samall way and 40 It is always best to begit go slow. Anm rannd of the ladder ant at the bottom the toe Men whe carefully elimb to the top. Ne se the begin and go fa that succeed. It mut ones who generaliy suecanage severil seem easy enough to manage soven hundred hens, and so it is for a mas of experience, but the beginner man not lose stght of the tact that he his much to learn. He must, likemity connult his capital, and under no att cumstances/ should fall to lay mido certain amount for workides purpom -Michael K. Boyer.

# ONTARI 

RECENT railroad construction has made accessible a vast
region of natural weailt in in and health await thousands in Sustenance will be given to miltions, slorious future.
This great province presents greater possibilities to the any other portion of Canada.

## Natural Wealth

oss tario is rich in timber and waterpowers, with its limit apidela of untouched forest and numero wateralls and -

Of Ontario's 230 million acres of land only 131 h million acres are under cultivation. More of land only $131 / 2$ million very finest arable land lie waiting tor 20 million acres of the
The following statistica will he for the plough:
enormous possibilitites of "Canada's Bannest as showing the Assessed Value
Annual Production
Uncultivated Farm Land
$\$ 1,900,000,000$
Avaliable Timber ...... 1,000,000,000 Available Pulpwood ........
Undeveloped Water Powers $20,000,000$ acres $19,000,000,000$ feet
300,0000000 cords 1,$00 ; 000 \mathrm{cords}$
$4,000,000$ H.P.

## Success is Sure

Tales of individual success in the Provinee literast like romance, Not one or two not of Ontario sound fiterally hundreds of mean have gone on to a farm in, but does the miner who makes a fortune from the earth as in this And whiner who makes a "lucky strike" earth as truly as And why should this not be so? Fiverytion
the tiller of the soil. The climate is warm summer days and healthful winter weather beautiful Autumn being at all extreme. Spring opens weather, neither
Then, the solly protracted until late in the year early and Then, the soll is rich, productive, in the year sponsive.

The wealth many farmers accumulate ia not earned by the the contrary, with proper through excessive overwork. On the contrary, with proper knowledge and care, hacked On most bountiful return iss, Ontario farming land will yield a most bountiful return for the time, money and labor invested.

## Free Literature

about this splendid agricultural country may be had for the carefully-considered reply. Adrif receive an authoritative, reply. Address as below for prompt

## Northern Ontario

Northern Ontario's Famous Clay Belt stretches west and Trunk Pa the Ottawa River, along either side of the Grand
 fario or the West in a Pettler can ride from the big cities of own door. This is something new if he wishes, almost to his Note that this fertilething new in pioneer life.
The climate is ideal for perfect heatth degree south of Winnipeg. and invigorating in winter. The land is well waterer.
with merchantable timber.

## Agricultural Products

Millions of acres of the finest agricultural land comprise the hat certatn hard.
It
ated land lies out to know that a great stretch of uncult vut the encourage invitingly before the prospective uncultiasked, "Has the are the reasults?" soil been practically tested" may be justly all the districts. The answer is that settlers have so, what lation.

Information re Land Settlement and Opportunities for returned Buildings, Toronto. WOULD YOU LIKE US TO TELL YOU MORE ABOUT NORTHERN ONTARIO?

Our literature descriptive of this great country may be had fee on application
G. H. FERGUSON,

Minituter of Lands, Forests and Mines
Write:-H. A. MACDONNELI
Director of Colonization


The First Creamery in the Temiskaming Distriot of New Ontario.
The First Creamery in tard started operations in Auguat, 1917. In Its frat The creamery at New. Liskeard started on 62 to
yenr the number of patrons increased from po butter.
this has been tried out and so far as

## A New Ontario Creamery

FAOTORY dairying is off to a good F. start in New Ontarlo. The goyernment creamery at New this keard, which is Illustrated on this page, commenced operato with 52 August. The start was made wid deal patrons. This year, after a good dea of work and organizing, there are 189 patrons sending cream, and from No vember 1st, 1917, to Oct. 31 st , 1918, at most 95,000 lbs. of butter have been manufactured and $\$ 35,000$ has for distributed among the larmers comcream. As much has been accons $n$ lished in the first year's operations. as the manarement expected This comniligh in three years at the farmers would seem to prove that the to the of the district are wide aw market af nnobrtunitles that a dairy market as fords.
fords.
The creamery is due to fill an in creasingly important place in the agr. culture of the New Liskeard which is one of the finest grazing dis tricts in Ontario and well adapted the dalrying. Mr. A. Mactachan, is of the creamery, is enthes mannser of the creamery, is en possilastic over the country and developbiltiles and to heln on dairy cow ment expects to organize several

## A Factory Herd Bull

J. A. Williams, Ontario Co., Ont.

$T$HERE are many instances in

Get This Blood-
 ROM, moth in 82,000 son of the 850 ,

BLOOMFIELD, ont.
clari.nce malloay

## FOR $\$ 130.00 \mathrm{CASH}$

 Thin is the last young sire wo have to oner ate over 100 lbs. per day, including May Echo Byiva, Nam, dum's sister and urrand-dam, have records of over Chesteryile. whose tiko in 7 days. His sire was head of the big diliston herd and of 2.314 lis His dam has a 26 ib , butter recora wis milk and 98.23 pounds turter in behind hilm. He is ready for lignt service. COUGHLIN BROS.,


## Excelsior Farms

"Buy the best and breed them better" is my motto. That is why I bought Lakeview bulls that were direct descendants of Canadian champion cows to head my herd. The senior sire is a descendant of Lakeview Rattler (page 49), 37.54 lbs . butter, 724 lss . milk. My junior sire is a son of Lakeview Lestrange (page 48), 38.06 lbs. butter, 741 lbs . milk. When in need of a high class bull, write Excelsior Farms.
JOHN WARNER, Proprietor, CAYUGA, ONT.
can learn it is giving splendid sav isfaction. The patrons arvice of the a nominal fee lor to maintain and bull, fust sumicie in good shape. The keep the animal is very similar to method employed the Canadian Govthat employed by the culls to breed. erament when loamas in the centre of ers' clubs. Some toll is to serve, 13 the district the butis He receives appointed as caretils trouble and any a stated fee for his trouble farnish expense incurred. All feed is furnish ed him by the factory authorities The cheesemaker has full control of the bull.

It seems to me that such a plan as this might be adopted to good advantage in many sections where cheese factories are located. The ta fluence of such a sire will be pro nounced and noted in the increase of nouncedk flow of the herds he sires, and in the quality of the animals pro and inced. In this way the recelpts of duced the factorles should be mar milk at therlally increased in the following terlally ficreasears. No doubt, too four or five years. No such a plan would serve to attract such a plan other factories to the one patrons of other bred dairy sire. maintaining a pure bred above, there In the case mentioned no financial have, up to patrons are charged a returns. The par, which goes toward very nominal fee, waying off the orig maintaining andice of the bull.

WM. SCOBEL'S SALE

$\overbrace{}^{\mathrm{N}}$N the ad. of Mr . Wm. Scobers sale on page 53 of this week s
issue, the time the sale will issue, the is given at/ $1 \mathrm{p} . \mathrm{m}$. Just on going to press Mr. Scobeb advises us that the time has been changed to $10 \mathrm{a} . \mathrm{m}$. Look up his ad. and note particulars of the sale. good bull would be used it onere were avaltabled I have found that perI have visited 1 only one or two real haps there were oaly one large disgood sires to serve any patrons of trict. As a resuit many pates were cheese factories or inferior quality. I using sires of very inferior qualide could belfeve that this the cheese factorles be remedied if supported a pure and creameries supported use of their bred dairy sire for the use of where patrons. I know of one case where

## Where Fitting is Half the Battle <br> manger out good and clean, (Continued from page 4.)

 is ready to have her ration, that she a notch or two. We find it invaluable in our testing work to make careful study of each animal so as a likestain just what her likes and dis likes are in regard to the concentrated feeds and then to give her what she Whes. Otten a cow will ctean up her feed better if one of the concen trates which she likes best is put on top of her feed and she can eat that first without mussine her other thod Or if you find she likes the roots or Cows, like human beings, put on top. Cows, like human beings, vary in regard to their tastes, and each animal to have her make the best record One cow which we the best record. more and better if we gave would eat concentrate separate instea her each ing them together. Another of mix. tested would respond better to her feed if we gave her the grain ration first and then in half an hour or so gave her her roots and silage. If the tion it should immediately entire raed from her manger and not removher to muss over. In our own prac tlee of feeding we feed the prainroots and sllage four times per day and the hay three times; the latter being omitted at the midnight millk. lag.The grain rations which we Hike best and seem to derive the best results from are the same as are used on many other farms including the
Pine Grove Stock Farm of FImm, Plne Grove Stock Farm of Elma, N.Y.
We try to stay as close to these ra We try to stay as close to these ra-
tions as possible although, as stated before, we must although, as stated taste of the cow.

## Ration No. 1

Two hundred lbs, bran, 200 lbs , distilers dried grains, 125 lbs, ground seed meal, 80 lbs, oil meal, 10 lbs soed meal, 80 lbs, oil meal, 10 lbs.
salt, 15 lbs . charcoal. alt, 15 lbs . charcoal.

## Ration No. 2.

One hundred lbs, bran, 100 lbs. ground oats, 100 ths. homfny, 100 lbs . of meal, 50 lbs . cottonseed meal, 10 bs salt, 15 lbs, charcoal.
Personally I have derived the best results from No. 1 ration, although in many cases you will find that the cow Will refuse elther the distillers' gralns or the gluten.
In my opinion mangels or sugar beets are invaluable to the man who is testing, and in many instances From 20 to 30 lbs or sllase may be fed, depending upon the likes of the cow and the character of the silage.

Feeds Popular With Others.
While attending Cornell University and studying under Prof. Savage I
highest cows in all the breeds durine Some 50 they had made their record Some 50 lettern were sent out and recelved some 20 replies as you wil phaseg of testing, as well as ofher phases of work, some men are not in secrets give to the publie their fiet secrets of nuecess. The table pub lished herewith goes to show the ve. suits of my findiggs and if you study used in all casen will find that bran was used in all cases and that greund onfo Oil meal, in nearly all the ratlons meal wers sluten feed and cottonseed meal were also favorites with ite
In caring for a cow on tent the feed touch with his times be is close muoh as to hother her op, but not so excltement. In ther of cause undue very patient and looks, one hisis to be details as well as the bler the small only fair and square io obes. It in give her the best chance the cow to a good record, so we must nes- for that every condition mbit wen to il favorable to her likings. Ons min in be regular with his milidets onsuit an A.R.O. test. It is not gnod prat tice to change milkers during prae or to have one man milk her a tent three times during the day and of other man the other millifars in only one man does the millifing the cow is on test she will berame at tached to him and more roadly
down her mills, down her mills, wheress, if shis is forced to put up with two milkers, we cannot expect the best rasulty with her under these changing canditionis The condition of the cow, eapieclally the condlition of the howels, stiontif it all times be elosely watched, and if canse should disturbances ocrur, thin cause should immediately be sopitht
out.

## -

## The Test Barn

It is always well to hold an hame its the test barn which proper temperaliure in 60 degrees. The test beiween 45 and ways contain The test harn shoultf of and plenty of slenty of dry pises alr lightly blenket the cowa durfor cald weather and any drafte or dirant cold rents of alr should to or diraet cuif. not to chill the cow. The teat so hat should be kept as quitet as posalble and no undre nolaes or diaturbances phould be allowed.
I like the plan
cleaning the stan beat of imincilatel) milking. giving the cot the mornitis bedding. a thorough argond clean then let her alone unill grooming and Ing. We feed our test cows int milhfore we milk them and lat linit lie while-we are doing the milking. This I belleve, tends to draw tha atientian, of the cow away from what youllof dolng and she will sllow hep fullh in always reely. The miliser should always be sure to strip out the ulder

of the oow very carofully atter each
milling and atre Thita ilttle extra trouble will surely. pay in the end.

## Current Notes

Announcement is made from Ottaw that IW. J. Black has resigned his posithon as Commissloner of Agriculture to become Chairman of the Soldiers' Settlement Board. On the Board he takes the place vacated by Mr. C. F Howland of Winnipeg, and the chango means that an agriculturist is now Mssociated with the work of the Board Mr. Black is a graduate of the Ontardo Agricultural College and has served as edltor of The Farmer's Advocate of Winnipeg. Deputy Minister of Agri. culture for Manitoba and was for 10 ears president of the Manitoha Agricultural College.

Sidney C. Johnston, at one time vegetable expert for the Ontario Depariment of Agriculture and later director of the Ontario Covarnment Motion Picture Bureall, passed away In Toronto on Friday Nov. 22nd. Appendictis followed by complications, was the cause of his death. Heart
felt sorrow will be felt at this news by the hundreis wto knew "gid' at college and by the many frienis 28 years old made since. : He was fust 28 years old.

With the Idea of capturing the proposed International Live Stock hiended by Mesars. Gearge a depatation Georko Pepper, representing the ive tock Interests of Canada, Messrs the Erhibition and C. A. B. Brown of the Erbibition, proposed to the Toronto Controllers that the city erect at a cost of $\$ 500,000$ a live stoct: arena for winter stock shows at the
Vrhibition grounds, on the live Vihibition grounds, on the live stock Thterests agreelng to pay $\$ 800.000$ of the costs, the Provinclal Government $\mathrm{f}_{10,000 \text {, and the Federal Government }}$ $\$ 10,000$ annually as prize money. Was asked that the eity submit the
matier to the tratiter to the reople at the next eleclion, in the form of a by-law to ralse the money. Finance Commissioner Hradnhaw objected and the matter
wha referred to hlm for further in Wha referred
lentigatlon.

Many a good Scotch story is told by Sir Henry Oliver. One is in regard to a certain beadle who had to Alow visitors over the remains of an ald abbey "somewhere beyond the
Tween." He had Tweed. He had on one occasion performed this service for a lady Who, on leaving him at the church. yard Gates, merely rewarded him
with thanks. "Weel, my leddy," he remarked, When ye gang hame, it ye fin' oot maun recolleet that your purso, ye not here.

FARM AND DAIRY

35 HEAD

35 HEAD Pure Bred HOLSTEINS

AT

Courtland, Ont., on December 18th, 1918
The offering will consibt of thirty.five head- 9 males, 26 temalese. Quite a number of these cows are fired by Canada's Pontac Korndyke, The young stock to be sold are of 102 A.R.O daughters, 46 proven sons son of Pontiac Korndyke, Bire or 102 , 38 .h. cow, first cow to produce He ts stre of the first 37. and sire of King of the Pontacs, who sold 1,000 los. tat in one year, and sire of kids Dutehland Sir Hengervetd for $\$ 15,000$. Some RM dangbters.
Yor
Maplecrott, 20 R.O. M. daughters.
. TERMS-Cash, write for catalogue.

Courtland, Ont.
HIRAM REAGH
Sunnyside Stock Farm Holsteins
$\begin{aligned} & \text { have bulst from one mond } \\ & \text { out of } \\ & \text { and not hem. }\end{aligned}$ JOHN M. MONTLE, Prop. Sunnyside Stock Farm STANSTEAD, QUE.
$\qquad$ FORS IERC Est FARM grens remintered Holswin- - Froetson in xo room. prices xume seil guic

## CLOVER BAR STOCK FARM OFFERS- <br> CLOVER BAR STOCK FARM OF danis, stred by a son of

 FranciadHis 2 Nearest Dams Average $38.82 \overline{\text { amm, aver. }}$


[^1]A 32.74 lb . Bull for Sale or Exchange on account of relationship to my helfers 1 would ike beautifully marked nine monthe old bull tor one about same age, he if you have something and right in
better
151/2 TORONTO ST.
TORONTO
T. JENKINS,

## GREENFIELD HOLSTEINS



 of milk on two mibe
Fontiacs.
Price
WM. STEINACKER
R.R. No.
s,
bringulite
sta

STRATFORD, ONT.

## CHOICE OFFERINGS

of the BIG SALE-DUNNVILLE, DECEMBER 11 OUST FOUR HEAD, not omficially tested, but good individuals and just FOUR HEAD,
carrying the best bioothe Catalogue. In their pedigrees are such noted Look them up in the Catalogue. . In tehland Colantha Sir Mona, King animals as Sir Admiral Ormsty, segis and others of the see them at the sale.
tamous
Canfield, Ontario
FRANK RICKER

## AT THE DUNNVILLE SALE <br> On WEDNESDAY, DECEMBER 11th

One cow enough for any show ring, and ONE MATURE COMMIRAL WALKER PIETERTJE grand daughter of A BME of SR ADMIRAL ORM8BY, daugher EITed bHTERS-of Lakeview Dutchland Hengervela, a sou of Dutchland EII Mona. FOUR DAUGHTERS ots of KING SEGIS.
is out of a grand-daugnter There are no official records, but This is a world's record in every pedigree
Were 8 a WREN STRINGER
CANBORO, ONT.

Watering Cows? w. C. Shearer, Oxford Co., Ont. THERE is almost as much in T watering almosi as much in them when it comes to getting profitable flow of milk. We had always been in the habit of turning our cows out to water in the barnyara Two years ago in the winter season We began taking the chill off the water and giving the cows a drink moruing and night in the stable. At noon aink cows were turned out and could driunt as much as they liked. The amoun they drank in the stable, however, imo creased until they were cakigst. or buckets each morning ander per cow as high as 100 lbs. of water
per day. They drank correspondingly per of the cold water when turned less
out.
out. The results were immediately seen
The same in the milk production. On the same in the mismerly the cows began to feed as
give more milk, and the increase was give more mik, and the extra labor in-
sufficient to make the suffice time proftably spent. Where
volved volved the are not watered continuousi)
the cow the cows are
with water bowls or a trough in tront of them we the chill off their drinkpays to take the water in the stable morning and night.
noted agriculturist was travelIng through one of one evanstates on a lecture tour. lecture, he approached ' a grizzled farmer wher the intention of starung crop con sation on the betterment of the agrt
ditions. ditions. cultarist
The farmer regarded him doubtfully for a moment and then sala abruptly, "You can't learn me nothin'. r've done wore
already."-Exchange.


FOR SALE, Our Herd Sire
King of the Tensens King of the Tensens
Hil Dam and Seris Dam verye 4

 becint weiqh rive al age ary in very wy. P.
tore atended pediarce.

## Lynn River Stock Farm

## Sunnybrook Farms

 HOLSTEIN BULLS at the right price and with exives or official record,
ready for heavy service.

JOSEPH KILGOUR
Eglinton, P.O. North Toronto
SEED CORN Wheonsin and White Cap Very
cholce, 83.00 per bubbel of 70 ibe on cob: basa tree. Caen wit

WA
ville

## ingavilie

## Seed Corn

No. 1 Quality. Wiiconin No. 7. W.G. Y.D. ready for thipment $\$ 3.50$ for 72 lbs . W. A. BARNETT Harrow, Ont.

## ONLY ONE =

Thint's what I am consigning in she is a mature cow 'recently She is a mature cow reat sogd
froctiened and ahe in a or at the sale.
W. H. Harvey - Canfield, Ont

FOR SALE AND WANI ABYERTISIKC HREE CENTS A WORD, CASH WITH ORDER CHEESE FACTORY FOR SALE about to tons-whey ons faotory.
nection. A good paying ham County. For particulars, w
40, Farm and Dairy. Peterboro' FARM WANTED.-Wanted FARM WANTED. Wo two or
farm near Toronto, for purchasing
 full part, location, character of sorm and
wantings to box 336 , Farm
bulldingen Peterboro, Ont.
$\frac{\text { Peterboro, Ont. }}{\text { HISTORY WANTED-Hirtory o }}$ Oounty of Peterbonoueh. Apply,
consiklon and coit, to A . White,
 federation We sold Fathers Apples in
"How Whey would "How We son otherwise they,
ronto" When ores in orchard. rotted uncer trees, experience.
valubte "seline", exp CANAD,
 better, mond rey refunded Raral Caneda. Toronto. CREAMERY WANTED-W purchase a cre of buiblues for
 27. Farm and Dairy. Peterboro

CHEAPER THAN A WHIP CHOBETTER FOR YOUR HQRSES
A horse with bruised, galled and chafed neck or shoulders can't earn
his feed. Whipping only, increases
 The pad made with our
Th PW ATE CHMENT
 Consists of wire staple with felt washer. It gives hook a firmer hold and prevents
puling off, even though fabric is weak-
 terially lengthened. This of the croate
provient aince
we STUFFED COLLAR PADS Pilled wilt our Speeial Cosisponite Stuffine
are better than other Kinds. They are sofh, are betier than other kise, and ang guarates
 THIRTY-SEYEN YEARS MAKING PADS Lopkfor the Fell Wachar SOLD BY DEALERS EVERYWHERE


## HOLSTEINS A GREAT DAIRY BREED



ALAMITY SNOW MECHTHILDE 2nd, 26707

Three.year-old champion in the Record of Pefol, 26707
 days, 32.70 ऐps. butter from 672.4 the, recills for seven

## A Great Breed

Owners and breeders of HolsteinFriesian cattle base their claims for the superiority of the breed over all other dalry breeds mainly on the following points: First, that the Holstein-Friesian Is a large, strong vigorous cow, full of energy and abounding in vitality. Second, that tier physical organization and digestive capacity is such that she is able to turn to the best of advantage the roughage of the farm, converting the same into merchantable products. Third, that she yields
large quantities of most excellent large quantities of most excellent
milk, fit for any and all uses and especially well fitted for shipping purposes. Fourth, that heredity is 30 firmly established through her long lineage that she is able to perpetuate herself through the production of strong healthy calves. Fifth, that, when for any reason ber usefulness in the dairy is at an end, she fattens readily and
makes excellent beef.


Senior and Girand Champlon at the Canadian National and London Exhl.

## Holsteins

## Hold All Championships

 Carnation King Sylvia,... $1066,000,00$
World's Record for Butter, One YearWorlda Recorn for Butter, One Year-
Duchess Skylark Ormmby 1506.36 lbs.
Worldn Reco World $s$ Record for Mulk, One Year-
Lattacke Vale Cornucopia 31246.5 . World's Revord for Butter, Seven Segls Payne Johanna.....50.68 Ibs. Worlds necord for Mill, Seven DaysMay Echo Syin Year- Recard for Butter, One Lady Pletle Cannry's Jewel Canadian Record for Malk, One Year-
Zarilda Clothide Zarlida Clothlide 3rd DeKol IF YOU CAN'T BUY A HERD, BUY A HEIFER

Information from the Holstein Friesian Association.
Prestident,
DR.S.F. TOLMIE, M. Secretary,
Victaris, B.C. W.A.CLEMONS,
Victoris, B.C.
St. George, Ont.


LADY PIETJE CANARY'S JEWEL, 17314.
Under official test for the whole year as a junior three-year
larsest mill, 24.1493 record of any cow of any breen in Canar-ole she made 11 $32.81 \mathrm{ibs} ., 1$ day record, mille, 100.6 mikk, 671.9 lbs, butter


POSCH QUEEN WAYNE, 12190
Champion mature cow in the yearly Record of Performance tes with $1,121.25$ ibs, butter from 25,085 lis. milk. Record for two sue

SEVERAL MORE BREEDERS OF Brown Swiss Cattle

$\Longrightarrow I N$ CANADA

Any energetic Dairyman who has not already chosen his favorite Breed would do well to purchase a small herd, trio or pair of

## BROWN SWISS

and commence breeding them at once, -in order to reap his reward with the rest of us.
The demand for BROWN SWISS STOCK is greater than the production, making quick sales at good prices.

Any one wishing to know more about these cattle, and to get in touch with reliable breeders should write to
RALPH H. LIBBY,

## STANSTEAD, QUE.

## Sunnyside Jerseys



## I AM OFFERING

, young stock of both seeses, from imported and Canadian bred stock. For further particulars write:
M. Grant Thompson

Bloomfield, Ontario

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}
$\qquad$

 we have WGe \&re pleased (wo showldge.
JAMES BAGG \&

THE WOODVIEW \&ARM JERSEYS
LONDON, ONT. Jno. Pringle, Prop.

CANADA'S MOST BEAUTIFUL JERSEY
Herd headed by imported Champlon Rower, Winner of flrat prize with five of his daughters on the Jeland of Jersey, in 1914, mecond in 1916, asd again fint inslyes, ready are now offering for sale some very chotoe bat caivea, of per-
 and heifers, Priced r
shogw our work cows.
-YORKSHIRE HOQS OF EEST WINNING STRAINS. Cholce stock for sale, all ages. sows bred and resa type and breeding. Nearly all Cholce stock for sale, Good growthy fellows of gooding E. C. White Leghorn
sexes from suckers
uprieties Turkeys, Geese, Ducks, Chitckens. 100 yearlis sexes from suck
varijetis Turkeys,
Write for prices.
Write for pr
T. A. KING

## Proposed Farmers' National Platform

(Continued from paso 14.)
Contrinued urged to reinstate such men in the former positions wherever possible. (f) That vocational training should be confined to those who witted for thefr service have become former occupations. (g) That provision should be made for insurance at the public expense of unpensioned men who have risks come undesirable
while in the service.
(h) That facilities should be provided at the public expense that won enable returned soldiers to tralning or farming lands when by tified to do so. experience they are qualid Capital.

Relation of Labor and Capital.
(i) We recognize the very serlous problem contronting labor in urban industry resulting from the cessations, of war, and we urge that every meana, economically feasible and practicable should be used by Federal, Froveying and municipal authorities in relieving unemployment in the cities and towton and further recommend the adoption of the principle of cooperation as the gulding spirit in the future relations gulween employer and employees-between Capltal and Labor.
(ween Land settlement scheme based on a regulating influence in the selling price of land. Owners of idle areas price of he obliged to file a selifis
should be price on their lands, that price also to be regarded as an assensable value for purposes of taxation.
(8) Extension of cooperative agencles in agriculture to cover the whale cles in of marketing. including arrange field of whth consumers' socleties tor the supplying of foodstuffs at the est rates and with the minimum mlddleman handling.

Public Ownership of Utilities.
(9) Public ownershif and control of rallway, water and aerial transportation, telephone, telegraph and express systems, all projects in the of relopment of natural
the coal mining industry,
(10) To bring about a greater meas(10) To bring about a greaternent, we ure of democracy immediate repeal of recommend the immediate rect; the disthe War Time Election Act; continuance of the practice of Canada. ring titles upon citizens Senate, and the reform of the reder the growth of Immediate check upon in Counicil, and government by order in comicilitus Increased responsibimity of all leglala members of Pariamention of the tion; the complete aboilion of pution of patronage system: the pubicatitures, all contributions and electlon camboth before and after electios campaigns: the removel of press cenase, ship upon the restoration of of the and the immediate rentoration of torth rights of free speech; the seting forical by daily newspapers and periodical publications of the facts of their repre. ership and control; proporsenal meassentation: the establishment of meas uras of direct legislation throumh the inttiative, referendum and recail, ana the opening of seats in Pariam men. women on the same terms as
Political Action.

That this council recommends to the provinclal associations that they take actlon in whatever manner they deem ndvisable to secure the nomination and election of candidates at the next federal election who will endorse and support the platform adopted by this Council.
War Veterans' Deputation.
deputation from the Winnipes branch of the Great War Veterans, consisting of its president, R. B, Maxwell, and Matar and each of the M.P. Was received, and each ofdress two gentlemen was made addresses the Council. They als and alms of setting forth the Great War Veterans, namaiy, fue securing of the heat and most jusi secatment of all returned men, in the interests of both Canada and of themselves, Including all necessary eare of the wounded and those suffering
disab. lity as the reatit of their ser vice: both apeakers made it pigin that the tirgenlred veterans are devoting earmat thought to all the problems of demobilization end of the re-absorption inte the eivilian ife of the country of the men who have returned and thase who are atill to retura from the war. They gave emphatic expred sion to the strong denire of the Grea War Veterans to cooperate toward solving Canadian natlonal problems with a nole view to justice for all a the furtherance of the pubile weifar The members of the Councll follow ed both speakars with close attention and marked interest. Later the Cou cll devoted much time to the con sideration of the problems touched ou by Mr. Maxwell and Major Andrew The Comnell also Ilstened frief addreas by Prof. Wi F. Osborn of the Univerafty of Manitobas, in a vocacy of the project of a Nationa vocacy of of bitucation.
The merlts of the Boy Bcout move ment were set forth to the Council in ment wern set fornest ndiress by Hugh D. Mac an earnest hade Manitoba Bay Sconta executive.
Potato Flour and Hemp Flbre.
A depaiation reprifenting the Wes ern Cansals Development Bureau the Winaipeg Board of Trade was r celved, and Its apokesmen, Mess Vere Brown and lacut-Col. Grassi explained that they invited the operation of the Canadian Council Agrlerliure in undertaking an investi gation of the practicability of intro ducing inta Weetern Cansda two new induatries, namely, the manufacture of potato flour, and the manutacture of fibre trom hemp, with a view to thid making of binder twine and of other ammosities. The deputation was accommodities. by Messra, Douthit and companed froy the United States, who Gave esplanation in regard to the p gove explanaino fidustries, which will be deait with later in The dulde. The memwhis of the Couneli were invited bers of the cous Wisnipes Board of Trade, and at the luncheon these pro posed new induatrien were further dis posed aew indasead made with potal flour was aerved.
The delegates pronent at the Counmeetligg wers as follows: From ell meeting We, Hurnaby, Jefferson M. Doheriy, Malton; J. J. Morrisod M, Doheriy, Maiton; J. IL. W. Wood,
Toronto. From Alberta, H. Toronto. Vrom Aiberta, H. P. Haked Caritairh,
Ponoks: Tiee Sheppard, Bdmonton: C Ponoks; kice.Jones, Galgary; J. W. Leldy, Rivesones, Catgary MeLellan, Purpie Bprings. From Saskatchewan, Hoa, Bprings. Mrom Baskatchewan, Musel!
George Langiey, Legina; J. B, Musel George Langiey, Legina;
man, Regina; A. ©. Hawkes, Percival; man, Regina; A, G. Rawhen, L. Rooise,
J. R. Payster, Tantallon; J. J. B. Payster, Tantailon; Jastriew; J.
Togos R. M. Johnston, Eastrom Man.
 F. Teld, M.P. P Orcada. Fromipes; $J_{1}$
toba, Hon. T. A. Srerar, Winn toba, Hon. T, A, Srerar, Peter Wright,
L. Brown, Pliot Mound; Peter L. Brown, Pliot Mound; Feter Wrgu, Myrtle: W, R. Wood, Winnipeg; Jad
Kennedy, Winnipes: J. R. Murny, Kennedy, Winnipes; J. R. Nurna, Kennedy; Norman P, LamberL Winolper. (Seeretary); ©. F. Chipmon pes. (Beereiary), Healy, Winnipe:
Winalpes: W, J,

## Company Notes

E are gila to be abie to ite

"Wform our secretaries." ager of the Unlted Farmers' Cooper. ative Company, fmited, Chat wehave made arrasements, whereby we have made arrangementations on tack are able to make quotationis grain in carlots and in es than is of. quote a mach higher price thata plessed lered locaily. We woatatons by wirt any time to affer application.
ofi
"Owing to government rullug wo awns offer goverament set price tor wheat, but are in the market for any that may be offered. We see reasen why we should not do a larpe reasos why of business to the advatase of the elubin."
Mr. Powell estimates that tis

December 5, 1918,
spread in elevator prices and U.F.O. prices will be from three to seven cents a bushel, depending on competition at local points. The company Is offering for immediate delivery a fuantity of sugar beet meal. This at $\$ 45$ per ton f.o.b. shipping point. but the Canadian Government placed Un embargo on this article and the U.F. Co. is able to offer it at \$36, f.o.b. Chatham, Ont, At this price it is constderable cheaper food than bran,
but must not be used as an exclusive grain ration, as it is extremely laxa-
tive. tive.
$\qquad$
The U.F.O. Financial Statement $T$ UE financial statement of the year ending and expendture for the follows:
In considering this statement it must be remembered that all dues are this year pald in advance and
that all expenses of the Annual Con that all expenses of the Annual Con-
vention have to be met out of thio seemingly large surplus.
Cash on hand Assets. in


The Thoroughbred in Warfare C APT. JAMES M. BROWN, attery in France, writes as follows thoroughbred and his condisct in the great war:
"After being veterinary officer for tached to the field artillery the whole period. I can affirm that there ting-bred half ber cent of trotInit of the Royal Field Artillery, and as regards the French and Italian
artilleries. Certainly and tion of the British Field Artillery
IF INTERESTED IN AYRSHIRES
THE
HEMMINGFORD AYRSHIIRE BREEDERS' CLUB
IS PREPARED TO FURNISH


THE BEST IN THE BREED. FOUNDATION STOCK FOR CHOICE DAIRY HERDS.


ANYTHING YOU NEED
FROM A SINGLE INDIVIDUAL
TO CARLOAD LOTS

THE COW WE NEED
We have winners at the Ottawa Dairy Show and their offspring. If you want anything in Ayrshires, give us a call, or write our Secretary or President. Visitors gladly received and a square deal guaranteed

PRESIDENT:
8. A. CLELAND,
-Hemmingford, Que.
R. T. BROWNLEE, $\left.\begin{array}{l}\text { THOS. A. STEWART, } \\ \text { N. O. STEWART, }\end{array}\right\}$ Hemmingford.
W. T. HAYES, Hemmingford. DONALD WATT, Lacolle, Que.

FRED A. SWEET, Hemmingford, Que.

## Springburn Stock Farm

 high class ayrshires IMPORTED AND CANADIAN BRED Herd Sire Lessnessock Golden Love Imp., Grand Champion Ottawa and First Aged Bull National Dairy Show, 1918. Formerly herd sire at Auchenbrain.Maple Leaf Jean was the highest scoring cow for both conformation and production at the National Dairy Show, 1918 in Junior A. R. Class.
THIS is the KIND we are BREEDING from at SPRINGBURN

## GILBERT McMILLAN <br> HUNTINGDON, QUE.




AYRSHIRES
If you want Ayrshires
PALMEA BROTHERS
$\qquad$
 A. HENDERSON

 young bulls. Call or write
SANDILAND BROTHERS SPRUCEHURST AYRSHIRES
Yorkshires and Oxford'Downs.
 four per cent and betcer. Their sire as throe-vear-aid. His grand
record is 13210 ths. mik, 565 lis. fat above sire.
10 giso reord
10 gualified progeny, R.O.P. Also five grand bancy (imp.),
No. 1 Dam, Netherton Queen Nanct No. 2, A grand-son of $\$ 75$ each. The other three are
LEITCH AND SON
 Two bull calves, rising 8 months, from R.O.F. dams, Alwo hoikers and heifer calves for sale. Herd stred by springank seoll Canadian champlon throe-year-old,
W. LEEMING $\quad$ R. R. NO. 3

GLANFORD STATION, ONT. w. LeEmina

INGLEWOOD AYRSHIRES CHESTER WHITE SWINE
 good por to zour good judgment, up to 16098 ms . milk, 680 libs, fat
 2-year-old " ${ }^{\text {Special Offering }}$ Special Offering Bull calf, 7 months of ape A good individual, nicely colored, whose
A
milk, 461 mbs , fat, including only ope four nearest
mature record.
. the bett foundation stock procurable. Write for Priess. WILSON McPHERSON \& SONS

ST. ANNS, ONTARIO

## Southern Counties

 represented in this sale. Twelve richly-bred young bulls and 38 females, many of them due to freshen about sale time. This is the district from which the great producing Ayrshires are coming. JEAN ARMOUR, LADY JANE, and SCOTCH THISTLE were all bred in this district. Attend the Sate THISTLE were all the good ones. No by-bidding or biddingin at our sales.Write the secretary for a catalogue, and Sales Mgr.,
F. H. HARRIS, President, MOUNT ELGIN, ONT. MOORE \& DEAN,

Auctioneers


 in the sale, including a hair-sister io Champlon, froteh Thletie.

## Ayrshires

-and Clydesdales

Imported and Canadian Bred

## Burnside

N AYRSHIRES, we can supply your wants in either sex, importea
or Canadian bred. This stock will be from ning up to $17,000 \mathrm{ibs}$. milk in R. O. P., and by that land Masterplece, who is an R. O. P. sire in Scotland. Canada and the United States. We intend importing next spring, and would carefully orders entrusted to us.


IN CLYDEsDALES, we have been taking a leading position at the big fairs, having been heavy winners in all ages and both sexes. We have now some excellent filtes and young colts by our great

Harley Holm White Rosie 3rd, 1st prize at ar
Chapmanton Henney, 1st and gr. champion Ormstown. Toronto, and Otta wa and National Dairy Show.
Carloton Baroness, 3rd prize, aged cow, Toronto.
Winners-1st, 2nd and 3rd at Toronto; 1st, 2nd and 5th at Ottawa; and 1st, 2nd and 6th at Columbur
R. R. NESS \& SONS - HOWICK, QUE.
herefore, creamery n In June un 8. J. Thom experience small quan is cash rety more took 1 cream they along afcely the businea the output fure a ama fnvestod in needed imy larger volum plant is pro in the provi of butter wi sides this, lee cream needs of the ounaing tow With mod ment and se facturing ond and keeping
high awande rovincial as ats, Kelow mones dd entries. The future re engaged lesire to go bi tact, taey a hay belfeve, order to reep necessary to : the marfintum are bast anite Nowhere 挂 t feeds, do bett distriot. Prov the proper sto numbers ench fog their har uses, find m

One of the good cows in the consignment of Mr. T. Wilcox to the Niagara Breeders' sale at Dunnville. Look up his

Which he got but a very amalt price, and return home with such necessitieq is butter, eggs, bacon. and a lew cans of condensed mills under the seat of his rig. and perhaps a bale of hay to feed to his work horse. Conditionk such as these could not go' on much longer, and the farmer begau to seratch hls head and wonder if he hadn't made a serions mistake in 1 e coming married to a one-crop system Should he not slso engage in some should line of asrlculture which would other line of asricuitady incame the give him a more shis could best be ac year aroun by keeping IVe stock complished by ould assure him a good Thla at least would assapitles, much ss share of his homesupp, and posithly milk. eggs and bacon, inarketed. have a surplas to time sasist in keepwould at the gamility of his iand, and ing up the fertility of atl the year also give him employ Kolowna. with fts round. The Cicy of Kelowas, would several thousand inhabitants, wantury afford a market of IVve stock product, importing very ish Columbia was importiady marheavily in such proded for many yeara ket should be insured for many years to come.
Business Men Interested in Creamery.
In alt progressive farming com In all progresy eow had played a vefy fumportant role in bringing about improved conditions, and it was aurely
patrons, Thls was encouraging. But how was the capital for the necessary bullding and equipment to be ralsed to foney was indeed scarce and hard sultable An estimate of the coat made by an energetic committee, assisted by members of th. Provincial Dairy Division, A buffding could be leased at a low rental, and at a small outlay conld be convertel into a suitable could be convertelant would cost in creamary. The plant would cost in the nelghborhood of $\$ 1,600$, and in order to rabse this amount it block of clded to put on the mariket at $\$ 50$ per 35 shares of capltal stook at $\$ 50$, Ahare, to be paid in instaiments, ar rangements being made with the bank to take care of the unpaid than whom Upon Mike Hereron, than whom there was no more enthuilastic dadr main in the Oicanagan, fell the which he afbility of selling the stock, which fually accomplivhed by reason of als unbounded enthuslasm and faith the project. It $m w-t$ be mentioned alse. that the orovislonal board of d rectors were men of the right type and willing and eager to spend thit timie for the good of the community Mr. W. G. Benson, as secretary, ver generously undertook the task of or ganization without remuneration for the first year.

A Slow Start-Then Suceess. With sufflelent money in hand,
therefore, to make a modest start the In June under the mansgrinest early S. J. Thomas, a man of many years experience in creamery work, At first eream came frim very slowly and in smas quantities, However, as soon as cash returns began to come in many more took heart and added what little cream they produced. Things want the businees in this way and gradually the oasineas grew to a point where sure aiput was aufficiently large to inigrested in profit. This fn turn was needed In sdditional equipment and larger yolume of bunts to meet the plant is probehty the m . To-day the plant is probably the most up-to-date In the province, and the yearly output ides this, toe crasm, quite a large quantity of needs of the city of Thetored for the needs of the City of Kelowna and surrWith modern
With modern pasteurizing equipment and scientific methods of manufacturing only butter of the finest kind and keeping quality is produced. Very high awards have been secured in both provincial and Alberta competitions. 1918. Kelowna Exhibition in Juno, 1918, Kelowna got Into the prizs money in a class comprising some 150 The future
trict fo assured. Most in this dia. are engaged in the business tars wh are engaged in the business have no desire to go back to the old conditiona. plans for greater things in thehensive plans for greater things In the future order to keep np wighty, so, that in order to ksep up. with the game it is necessary to make every acre produce the marimum of those crops which are best auited for milk production.
Nowhere in the country does alfalf. Nowhere in the country does alfalla and corn, the two greatest of afl dairy distriot. Proviston fa falng Kelowns the proper storage of theng mado for sllos are springing of these feeds, and numbers emoh year up in increasing fig their farns puttlas are enlarg. hog their barne, putting up milk houses, and making many other im-
make for more economy and efficlency in handifigg thelr business.
The improvement of the dairy herda tion in community is receiving attenbring the manner that will assuredly 1916 several car kind of results. In ing cows were lots of heavy productrict and quicke brought into the dis of the creamery disposed of to patrons the the creamery. Many goed sires, producing cows, exceptionally high into the community, been brought well the community, cooperatively as from these are and the progeny show the wise now beginning to During the summer auoh a policy. year the Kelowns Hol of the present Association was formand win Breeders' to establish as formed with the aim centre. Quite a Holstein breeding pure-bred females number of very fine from leading brecdere purchased and dieatilbnted brecders at the coast bers of the assoclation various memspace of three or foar years this the space of three or foar years this comcreamerlas in British one of the best through the British Columbla, and nmong its members of cooperation more prosperombers this district has more prosperous homes and contented
farmers.

## Silage as a Feed

CORN sillage of itselt is not a comfor farm a weil balanced ration young cathle, stock. in the case of or cut hay, it will mo wed. with chaft winter ration it wave very well as a the eat wheat itraw aseen young catmixed wheat straw with avidity when the winter in very and come through In feeding dairy good condition. In feeding dairy cows, alfalta tupplement, whe logical roughage with graln feeds, use supplementing trates as bran, shorts such concenor cottonseed meal, all of cake meal rich in protein. Oats, barley or are are not the best barley or corn corn ensilage.-J. H. Q. IN HALL'S FEED BARN, DEC. 11th, AT 12.30 SHARP
There will be offered 43 head of registered Holsteins taken from the best herds of the Niagara Peninsula. Ahe sale will be held in a comfortable building with good seating capacity and electric lighting. All animals will be guaranteed. Railway station only one minute's walk from sale stable.

> John Moote, Canboro.
> Warren Stringer, Dunnville.
> J. Dyer, st. Catharines.

William Harvey, Canboro. AUCTIONEERS,
Brank Montan, Syracuse, N.Y. Wm. Mequillen, Dunnville, Ont.

CONSIGNORS. wech Hagar, Welland. W. C. Houck, Black Creek
Frank Ricker, Canboro.
8. A. Best, Canfield. Sales Secretary - W. L. Houck. CLERKS.
E. K. Hampion. David Elliott, st. Catharines.

Train
rives at
11
For Catalogues send to W. L. HOUCK, STEVENSVILLE, RR at smithville.
Depots only 1 minute walk from., H., B. an

## PINE RIDGE STOCK FARM

Will consign A 24 LB. COW in the Niagara Peninsula Sale at Dunnville

Wednesday, December 11th.
A total of
Females and
LIZZIE PIETERTJE DEKOLA real cholee one, who has millked 76 lbs . per day in two
millings milkings on grass, and who has given 24 ibs , butter in 7 ditions. She is easily conditions, Sbe is easily good EVERGREEN REX -
A well developed individual, capacious udder. She hand ir.two-year-old record of a 11 of her this is no indication abily.
ousar auchess-
A ine two-yearold that has when fully of breeding, and make a good one
whose sire cows are bred to our herd sire Prince of the Jemiles, Wennle Bonerges ir of Lulu Keyes, 38 lbs . in 7 days. His dam is old, with first calf. Ste beirig a 20 ibs. in 7 days as a two-yearCrmsty, who, until recently, was the only of Jennie Bonerges over 800 lbs . butter in five consecutive years, and having also
T. WILCOX

Smithville, Ont

FRED SEGIS WALKERriew Calamity aon of Centredam was first prize winner whose Dairy test at Guelph. She nilked oves 60 lbs , per day esting 4\% as a two-year-old as a daughter of King
 aill record of $22,000 \mathrm{lbs}$. butter. I year and $1,000 \mathrm{lhs}$ : will be test dam of this bull aning lested at next fresh. creditable record make a creditable record. <br> \title{
Second Annual Consignment Sale
} <br> \title{
Second Annual Consignment Sale
} DUN

## Farm

Stanchio
IF the calres a 1 laed them by thed. When the: Hed. When the, cet part of the got part of to
Very simple sta structed to preve insure the equal
$\qquad$ 4 Mn

eed. To preve reed. To preve
weking one anot uept til the stane kept ther feeding.
Ifter feeding.
A call stanchion A calf stanchion
of cheap or scrap illy 36 to 40 fnct flly 36 to 40 inct lourdinoh space fo
design for a pra dbown in the diag

A Four-H
 good fourho
horsese walking abry that wil give go
broes and one whil
olandle juat kwo poxes and one whal
co, Ont. juit kwo
co. Ont
The diagram he purborse hiteh

berever four-horse otly used. The lin wily used. The lin
The teatm can be a ore torsmin, if they the the addition and from the bit of tof on the hames of Wrifte measuremen
wnot be given. Th site of the hors nats is only one Sire are those who feed Living. ston old process,

OIL CAKE MEAL

With little exercise, a Sire specially needs Oil Cake.

## Farm Appliances

Stanchions for Calves.
F the calres are kept together in farge pen, it is very difficult to leed them by hand unless they are ptien is spitied, and the larger calve fot part of the smaller ones' shar Very simple stanchilons may se con structed to prevent losses of mill coninsure the equal distribution of the

thed. To prevent the calves from sucking one another, they should be kept in ohe stanctions for some time atter feeding.
A call stanchion may be constructed of cheap or serap humber. It is usuflly 36 to 40 inches high, and has a four-inch space for the calf's head. A
design for a practical stanchion is design for a practical stanchion is
bown in the diagram herewlth. bown in the diagram herewlth. he health, $f$ the Herd ed Living.

MEAL

Sire specially

## ake.

## A Four-Horse Hitch

W
 toreo waiking abroest It want a pitch

The diagram herewth illustrates a urthorse hitch which is popular

lerever four-horse teams are com-
oaly used. The lines used for a two one team can be adjusted to handle or homes, If they are good and long. the the addition of four straps to ach from the bit of one horse to the \%o the hames of the horse next it. anot be given. Thls will vary with 2 she of the horses and with the bis of each Individual teamster. tils is only one of many h
preference with whine find greater Its popularlty would seem to tnd but that this one is at least as good as ethers.-F. E. E.

## A Bucket Rack

Ieracket feeding calves, we are gen. We can stand to two alternatives. while the calf gobbles hold the bucket which involves a waste of its contents, can set the bucket down time, or we calt go to it, with about a 50 let the chance that the bucket w 50 per cent and the conterits wasted before meal is well started. Recently the vistting one of the many sood farmers in Eastern Ontario, an dairy of Farm and Dafry notlaced a very con venlent rack whlch comes into use at feeding time. The diagram herewith illustrates the principle. The calves are tied up in stanchlons at calves time as calves always should be In the manger in front of the stanchions, a rack as long as the call pen is drop, ped in , fitting against cleats put there for the purpose. The cross pleces of fit in nicely. The a feed bucket to fit in nicely. The bucket cannot be overturned, no time is lost and when the feeding time is over, the rack is

above the stanchions until needed

Power From Farm Car

SFarm and Dairy read an article in power uses of the farm car. Your article discussed only the commercial power attachments, which may be pur chased for power development. Two the sam years ago I read an article on the same subject in a farm paper pub ilshed in the State of lowa, where was then living. This attachment dif elsewhere anything I have ever seen elsewhere and it has the advantage of send yomade. The drawing which principle vor herewith illustrates the In this very completely.
outdoors and the power is located outdoors and the pulleys, on whlch the walls in pit are mounted on brick most in a pit dug for the purpose. In most cases, however, the power is re, quarm inside the building and in most that there equipped with power I find pulleys is one general shaft with prinding and belt attachments for water and fupt, pulping roots, pumplng chine or crunning the milking magest that it separator. Lwould sug. have the pulleys would be very casy to run extendings on whlch the wheels foor with the slightly above the barn to the pulleys main shafting attached der the folieys running along fust uncould construet Any ingenlots farmer power plant without expert assistance.


[^2]\}
THE HOME OF RICHARDSON'S HOLSTEINS


Pailadin Beets of niverulde, one of the good on
kind that we dovelop and offer for the
low, milk as a junlor foyd offer for the public. 23 the Tiverside herd, the Revin=

## Riverside Holsteins

have been dolng moed work at
home, but what is of sitil importance they have been coing still better work in other herdang all over Canada, where they have
 bs, butter JOILANNA OF MVERSIDE, whio has over R.O.P.
 Moralis cown in both h.o.m. and R.O.P. And many ame are prepared to to aha ande place to buy Holsteina. In the past. quaily of stock, both male and tecalle, as wo havaan the

 J. W. RICHARDSON

Caledonia, Ont.

## A Rising Herd

Wo woil hove aut iosilanige no tome nothing for sate at present. Howeve


A Sample of Our Foundation. Her dam and Sire' Dam Avernge $29,63 \mathrm{ibs}$, in 7 days
JUST A WORD ABOUT OUR FEMALES that will fredon in the next counge of manthe A funlor 4 -year-ola whit

 that save 91 this, to ono day, $A 24-1 \mathrm{~b}$ datishter. of a $23-\mathrm{bs}$. milk and
 Sorry we aselb, now, South oxtord with pot a sirg to tell you about, but we are down there in
thine lens thati it thai butier and one olose by, wo haven't wised anyWatch for our future ads. Ponelol 100 bm, malk in 7 days.
J. B. Hanmer

Norwich, Ont.

## A Frank Talk to Live Stock Breeders

Extracts From an Address by C. A. Stannard

## RIDGEDALE HOLSTEINS



## World's-Record Heifer

Lakeview Dutchland Colantha Rose, highest producing 2 -year old with 1 st calf, 31.71 lbs . butter in 7 days. We have the good ones, both male and female.

Let Your Wants Be Made Known RIDGEDALE STOCK FARM FREEMAN (RR. 2) ONTARIO
no man that needs to bo

THBRE is no man that reedit io for
 der of pure-bred live stook. Mils
 whole burners sincelmitorward, honorpends on mess methods. No man can able gasinee pure bred live stock bust. last in the pure breach ing oed defrauds ness chat char, willing your breed.
 ing stock, if there rif. active buyer's atanimal, call the prospective worse, treat tention to the na you would like to be your customer as
tran ted it your positions were retreated
versed.
Versed prompt in answering your corseBe prompt in answering sending the sponden for your live stock to the parpapers In my time I have bought a chaser. many pure-bred cattle and 1 begood many pure per cent if not ninety lleve seventy-hve per in have bought per cent of that dilatory about sending from have been papers. I have had to the registration papers three or four
write some of them the Write some I would get a reply, times before had to write and steleothers I have hew I have had to go graph, and some would hardly believe and see, and you tell you how many men are careless about their breeding men are carelessly careless, but I be-
records; not only records; not only care dishonest with lieve some of them are associations. themselves and Cherelessness.

Pure Carelessness.
develops when you have sold This develops when you have comes a cow to someone and a callus calf, and conflicts with the prev lows and and the secretary calls you down cow says that it is impossible months. This to have two calves carelessness. You comes from pure car down the date at have neglected to set down the dit came. Two or thees the time the call came. Two or tare months later you that the calf was guess at the date that the call wat
have missed it, and the result is a conflict of calves and you are called down by the secretary, huminatogaybe maybe asked for to record this call youth the time went by in which you until the to nominal fee, and then could record penalty you dated it to avoid the you came to record ahead, and when forgot about the the next cate and you were caught previous thing being occasioned by the whole carelessness. If you will neglect and carelessness. just heed this mokes. "Do it now.
For fifteen years I served on the For fifteen years of the American board of directors Breeders' Association, Hereford Cattle Breed ed idea of how and I got a very goode ss in their remany men were care not so many men cords. There dishonest, and when their that were was called to It and they attention was ear it was that the resaw how tor be kept absolutely cor cords should feet, they readily acqus of the aasocla. feeling that the sing on them vanished.
Hon were imposing I wish there was something I could I wish there was someth every man say or do to impress the breeding of that is engaged in the Importance of purebred live stock, themes in your re promptness and accurations are lars cords. that you keep a hired man that enough that your kep ord, I would ate looks after your record, use this in my gest in dally report. business. Every man keeping track of my herdsman or man keeping trick of the records on my place, hands me a report for each day, showing the breeding record of cattle that may calves dropped, the disease from whee have died if he knows, and tiny other they ding that may have happened per training to the live stock, and what he
(Concluded on page 52.)

## CANADA'S COMING SIRE

## A Grand Pedigree

 His Dam: Lakeview Lestrange, 741 lbs. milk and 38 lbs . butter in 7 days. His sire: Dutchland Colantha Sir Mona, who has produced more Champion Manchters than any other bull in the daughters than any other to Dutchland world, and is a brother 22,750 lbs, milk and 858 Colantha Vale,lbs. butter at 2
years.

CHAMPION \$ISTERS.
Lakeview Dutchland Artis, Canadian Lakeviow Dutchiaw, 43.06 lbs butter Champion mature cow, 43.06
and 654 lbs . milk in 7 days. 34.65 lbs . Lakeview Dutchland Qu ed
butter and 708.5 lbs . milk. Calamity Rose, Lakeview Dutchland Calamity Rose, world's champion two-year-old $\mathbf{c a l}, 71.71 \mathrm{lbs}$, butter and 510.4 lbs milk.

His 38 lb . Dam
 $\pm$


Lakeview johanna lestrange. whee dam and bister average 40.56 bol . In ?
days, to with the of his full brodays, the only

BULL IN THE WORLD those frat even slaters hold nine Cannalian mope first oven elistords Every generation in hs e pedigree contains Canadian all world os recorder for my service.

Already I have stated come of che best Already I have curing the poet week the
 cent calamity Poser, with 26,48 ib s iotoria
and 1,041 tbs. butter in year, and via ns, and and 1,041 rios, put her butter in even days, and Alice Tensen Canary, with 30.32 rose, We oar and 625 bs. milk in sever
at ill take on a dow mors.
ot hl take on a LAKEVIEW JOHANNA The above photo is a splendid individual. cold day, and does
was taken on a dark,
wis was taken on ing instioe. His first cali is
A. J. TAMBLYN,

Cedardale Stock Farm

## From Every Angle

His Bromerar:-Lakeview Dutchland His Bromickr:-Lakeview show bull of
Hengerveld ind, the unbeaten America.
The dam /s sisters, Lakeview Queen 3 rd,
2-year-old in eight Canallan Champion 2 -year-old in eight months division, going dry between the two Lakeview Calamity Countess, 32,46 than Lakeview Calamity Countess, $\mathbf{~ b u t t e r ~ a n d ~ L a k e v i e w ~ q u e e n ~} 3$ with 30.16 Ha. is GRAND stree, Celantha Johanna Lad, who has produced more cows with over 600 lbs. mai and is even with Pontiac Kornayke in mimer of $30-\mathrm{lb}$, daughters. He la closely related to segis oven days Johanna, wortd'e Also sarcastic Lad, grand 50.68 lbs , out ter, the st. Louis Exhibition, and whose progeny holds more world as records than any other sire. Also ham ever held Johanna, the ends from one day to one year al word's records

His 43 lb . Sister


Lakeylew Dutchtand Arts, 43.05 Bbs. butter in Lakeylew Dutchland Artist,
even days Canadian ohyumpion . ORONO, ONT.

H
grand-daughter of this same bull. Lakeview Queen 2nd is another daughter of his, 30.16 lbs . butter, and Lakeview Queen 3rd, another daughter, is the Canadian champion senior 2-year-old 8 months after calving. There are a great many more good ones and a lot of young heifers still to be heard from. <br> \section*{Oh-Boy-Look-} <br> \section*{Oh-Boy-Look-}

DUTCHLAND COLANTHA SIR MONA---E was the next sire, and look what his daughters are doing. And they are only beginning. Lakeview Dutchland Artis, Can, champion mature cow, milk 654.0 lbs , butter 43.06 lbs . She fs also Can. champion senior 3 -year-old, milk 567.9 lbs ., and butter 34.66 . Another Lakeview Dutchland Queen, Canadian champlon three-quarter cowmilk 705.6 lbs, butter 34.65 lbs . Still another one, Lakevlew Dutchland Colantha Rose, Is. Canadian and world's highest producing 3 -year-old, with first calf-milk 496 lbs., butter 31.71 lbs ,, and he is the only bull In the world who has 27 sisters giving over 600 lbs , millk, and 20 sisters With over $30^{\circ} 16$ bi. butter in 7 days, and three sisters and two daughtera have held world's records. His grand-dam is the only cow in the world who has held all world's records from one day to a year. He is
being kept for service to a limited number of approved cows. Full particulari on appleation. Good young herd-headers always on hand.


DUTCHLAND COLANTHA SIR MONA
SENIOR HERD SIRE

Whether you with us looklng over our splendid herd. The farm is on the cement highway to spend a few hours and is easily reached by road or rall. The latch-string ts always out higway-Toronto-Hamilton-

## LAKEVIEW STOCK FARM - BRONTE, ONT.

Dec̀ember
type of the 9. At wha cows
Repllen breedere rep dairy bred to startea to portant poin of a light a
ratton'durtn the influene ing upon th cow when $n$ subject the and the res covering elg ed.

In our exp
ers, all reg the Holstel breeds.
weights, mea for each anim og periods of these anim mitt and grain ration
from birth to other group and hay but bey calved. stble rate and lance of gr while the of nore than The result howed the $m$ einvy ratton parative size

6 ma .
Helgl
41.
6 mo
12 mo
10
18 mo
24 mo.
8 mo .
Mature
A liberal gr d a much me he irst two $x$ beral ration are. The IIfh or but contint he difference artlally but oung is then ome laftuence almal when ambtned, it sith early cal
mere obtafned mere obtained
If you want to eristry recor toffer, of cour ery liberally of then really and wil rive a hen three yea the more libera

We III
 all bour butcher.
butl known ather juat
of a real ${ }^{0} 0$ We to
teating. Write
Currie
trpe of the cow when mature ? 9. At what age, or the average, do size? of your herd reach their full Repl Replies were obtained from 301 breeders representing the four leading darted to test somie of the most im. portant points, especially the influence of a light as compared with a heavy ration durtig the growing perfod and the Influence of the age at first calving upon the milking qualities of the cow when mature. In discuasing the subject the opinions of the breeders and the results of our investigations covering eight years will be mentioned.

## Fat Calves or Thin?

In our experiments we used 42 heifers, all registered, and representing the Holstein, Jersey and Ayrshire breeds. Complete records of feed weights, measurements of growth and records of mftt production were kept for each animal until at least two milk. log perlods were complete. One-hale of these animals were raised on wholemilk and given in addition as heavy in grain ration as they would consume. from birth to coming into milk. The other group of 21 were fed akim-milk and hay bit no grain at all untll after they calved. By this means the one group was grown at the fastest possible rate and made as fat as an abundance of grain would make thom, while the other group was never in more than moderate condition and growth was slow.
The results of our experiments showed the most marked effect of the heavy ration was a much more rapld growth. The following shows the com-
parative size of Holstelns at Intervals: Holoteins. Age
Welght grain Weight

Helght Weight | Age | $\begin{array}{c}\text { With grain } \\ \text { Helght Weight }\end{array} \begin{array}{c}\text { Without } \\ \text { Helght Weight }\end{array}$ |
| :---: | :---: |
| 41.1 |  | $\begin{array}{rrrrr}6 \mathrm{mo} & 41.1 & 428 & 38.6 & 317 \\ 18 \mathrm{mo} & 46.8 & 654 & 48.2 & 432 \\ 18 \mathrm{mo} & 49.6 & 912 & 45.7 & 598 \\ 24 \mathrm{mo} & 51.2 & 1.110 & 48.4 & 731 \\ 36 \mathrm{mo} . & 52.6 & \ldots . & 50.4 & \cdots . . \\ \text { Mature } & 53.4 & 1.260 & 52.1 & 1150\end{array}$ $\begin{array}{lllll} & 56 \mathrm{mo} & 52.6 & \ldots & 50.4 \\ \text { Mature } & 53.4 & 1,260 & 52.1 & 1,150\end{array}$ od a much more rapid growth during the first two years eapectally, but this liberal ration resulted in developing animals somowhat larger when mature. The light fed animals graw slowor but continued growing longer, so the difference between the groups was partinlly but never entirely made up. The Hberality of the ration when young is then clearly a tactor having some lafluence upon the size of the animal when mature, especlally if comblned, as will be mentioned later vith early calving. The same results Eere obtained with the other breeds. If you want to make a good advanced repistry record with a two-year-old helfer, of course, you must feed her very liberally up to that time, and she It then really as old in development and will give about as much milk as a haifer raised on a ration of roughage

whes three years old. In other words. shen three years old. In other words, the more liberal the ration during the
krowing period, the earition the snimal reaches manturity.
work is that cows reet neted fo our work is that cows reach thely full height and skeleton growth from twe In three yeare before they are maturs In weight. A Holstein cow grows but ittle in skeleton after four yests inf wone after five years, Sle gains in weight up to about soven years and at times even longer. A Jariey haf nearly her full akeleton growth at $\$ 6$ months, but may grow a litte in to four years, while she inereases in weight up to six years and possibly
longer. longer.
oxpressed by confrmed the opinton expressed by the breeders consulied regarding the influence of the Ifberal growth and the final site the rate of crowth and the final site reached. Age of Calving.
One-half of our 42 animale calved at an age which would be cafled early for the breed, about 24 months for Holsteins, 22 months for Jerseys. The other group ealved at an average ago of three years.
Influencing the alzal of of daing is factor Contrary to commen of dairy cows nancy does not retar opinion, pres the animal elther in welably growith of the animal elther in welght or slevele ton, but producing milis exeris a both in skeleton in checking growih Jerseys calving at an walght. Letght fed ed an average height of tis she show. 30 months, and others of 48.5 Inchen at tion but calviag at 36 mone name raat the same age 49.1 Inches in height The difference in weight in helight more pronounced. Anight whs even an early age never reach the sifing ilit would if calving a year the fine they most pronounced results with The ence to size may be brought shose by a combination of a light ration during the growlng period and rasion during A heifer underalzod from a poor rallog, and calving at a very early ame, fasi, most certain to remain underuized The combination most favornble for developing the largest animal is of
heavy ration when young and int calving. The better houng and late ity the more pronounced the affact As a result of these combtnattons wewere able to develop one Jersey that was 53.4 inches in hoight and walghed 1,122 pounds when mature, whife atiother was only 47.3 Inehes in helgh and welghed 720 pounds at maturly. A rathon extremelyent taught til that a ration extremely low in proteln may retard the growth in a helfer in tha same manner. That is to say if the growing animal is given os very low protein ration for a long time an ull dersized antmal is to be expectad There fa little danger of a heifer fut the ration from a low mineral matter in the ration and none if a legume hay in fed.

Are Large Cows Deslrable? Having discussed some of the factors influencing the size of animals it may be well next to ralse the question an

## 40 <br> BREEDERS!

 HEADVery High Class HOLSTEIN CATTLE


## Elmaple Holsteins---

No. $1 \rightarrow$ moor oide wol nouna sires of menit.
Count Segis Welk grown, three-fourths white. Sire-A son of A half sister of May Eeho Syivia, the world's Clampion.
No. 2-S moe old, straight as a line, dark in color. Sire-King Segi
 three-year-old deughter of Count Segis Walker Pietertje. Dann or the above, with one exception, test-
ed for four renerations. Priced right. Writ tor wervelum.

J. E. Huff \& Son, R. R. 1 Bloomfield, Ont.

CHOICE OFFERINGS

FROM A CHOICE HERD THREE HOLSTEIN BULLS

## FIT FOR SERVICE

## From our Herd sire HILLCREST RAUWERD Vale

Who is by a son of SIR ADMIRAL ORMSBY, the Sire of JENNY BONERGES ORMSBY, who made over 30 lbs. in 7 days for 5 years in succession.

His sire's dam is Rauwerd Count Dekol Lady Pauline, Butter in 7 days, 30.47, Milk 721.6, Butter in 30 days 126. Butter in one year A.R.O. 1113, Milk 2900, dam of a $34-\mathrm{lb}$. 3 years old.

His dam is Hillcrest Pontiac Vale. Butter in 7 days 29. Milk 530 , Milk one year 22785, butter oue year 986 .

Two of the bulls offered are great grandsons, and one a grandson of Mercena Calamity Posch 26,448 lbs. of Milk, 1041 lbs, of butter in one year R.O.P. and over $60,000 \mathrm{lbs}$. of Milk three years in succession in R.O.P. Also one bull a grandson of above cow sired by Content Paul Korndyke, born Mar. 10, 1917.

We are also offering for SERVICE, the above mentioned Herd sire HILLCREST RAUWERD DEKOL.

WRITE US FOR PARTICULARS

## W. FRED FALLIS, R.R. 3 - MILLBR00K








WILLOW GROVE FARM--Drumbo, Ont. on Tues., December 10th, 1918, at 1 p.m. sharp


 oid Included also will be
 yearling heltera.

5 young bulls ( 3 ft for service).
 2ntat King Lyons Henervelid:
 a.T.R). Pansengers returned. Aceommodation for ail from Ont.

Write for eatalogue to R. B. FRY, H. BOLLERT,
MOORE 4 DEAN,
. BoLEERT, Kgr., Kitchener, Ont.

## $\$ 300$ buys

Ave-year-old cow due in Merch to a mon of May Bocho Pince, the aire of a an.68 ib. Ar-three-year-oid, and a bronter old granddaughter of Prince. ored to a grand son of hag Apple Korndyke 8 th, out or a
for $\$ 3.000$. We b For further particulars write.
R.R. No. 5 ,
for sale.
PETERBORO, Ontario
HARRY I. SEYMOUR, R.R. No. B,

## Holsteins For Sale

## 




 histaot in Carmice For Particutare and Prios, Apply

JARVIS, ONT.
cow to economical milk production and whether we want a large cow or at small one. Is a large animir desirablef In generai, taose keeptage pre. to produce datry producla or for the fer a cow medium to large ther ame breed. Most breeders have preference but some, especially do not breeding the smaller breeds, favor an animal large for the breed and otten look with more favor upon the smaller types. The cows fat have made the largest milk, and fat records have without exception Prof large snimals for their oreed highest Woll has also shown that cows that are production is found with cows they belarge for the breed tions are that the long. The indications are tititles of stimulation to give large quanely indemilk may be Inherited entirely cow pendent of size. An undion to give millk with a great stimulation to to digest is limited by her capacity with a larger feed and cannot compete the stimulacow that has ilk to a high degree and tion to give mik handle the feed necessary for high production.
A Talk to Live Stock Breeders (Continued from page 48.)
worked at that day.
Several Itmes in $m y$ experlence Seven of herdsmen that quit, or wave heard of taking the breeding Were dischar them and refusing to derecords with them anver until they liver them to the wher him on his inade settlement with last spring a terms for them. Just last the telebreeder called the up over had disphone and stated that that he had charged his herdsman the breeding recgone away and taken the demanding a ords with him and was demanarn of thousand dollars for the to know of these records, and wanted all could do me what he could do, Al consult his was to advise him started his new lawyer and when he started ais report herdsman in to adopt the aailosity, I system. To satifs herdsman finally
ame back to town tor scest reason or ther, they has him arrested and the oreeder compromised, making a settio ment with him and paying some little money for his record. acdi-have had a lawyer's fee to pay, or this known of several cases simitar of the In my experience as a director of then Hereford Association, some to the occasioned

## Milk Prices at Ottawa

 ILK producers in the pttawa district are demanding an in crease of aix cents per gallon In the price of their milk, a jump from 29 cents to 35 cents. The milk dealers have agreed to pay this figure, as it have agreed to pay or go without their was a case of do singly the retall price supply, Accordity was increased from of milk is the cents to 13 cents. Consumer 11 cents to raised the usual agitation, the Canada Foised Board took action, and are now Food Board took action the Fair Price conducting, appointed by the Committee of Ottawa. an Investigation Councll of ote millk prices. The dairy companie have been asked by the Minister haver to delay action until an Invent gatlon has been made.
All of the experts called before the committee, Including Mr. E. S. Arch bald, Dominion Animal Husbandma and Mr. Geo. H. Barr. Chief and Malry Branch, testifled that preser Danditions fulty fustified the increi conditions by the producers. Mr. demanded by the prob the. Producer J. Scoble, manager ond W. F. Bell. Dalry Company, millk producer, who Britannia Bay, was a competior inted by Farm and Competition condacted also advanced Dairy some years aso, also that the in facts and iggures crease was justinvestigation for the conducted the inves that producers committee, regretwad in greater numhad not come forward in greater issue The investigation was closed.

## (rut

## Your Opportunity

## No. 1-KING KORNDYKE SYLVIA

Born April 7th, 1918.
He is well grown, light and handsomely colored and a good individual.

His Sire being from a son of King Segis, that has a 40 lb . daughter and a 40 lb . and 37 lbs . grand daughter, and Pontiac Clothilde de Kol 2nd 37 lbs . The Sire's Dam S. C. Mignone 33 lbs .

His Dam Helena Sylvia Posch, Butter 27.41 lbs., Milk 800 lbs. Milk in one day 116.4 lbs . She has $621 / 2 \%$ same blood as May Echo Sylvia - "Nuff ced.


## To Buy a Sire that will rank as one of the Greatest Sires in Canada

 because he is backed by the greatest producing families
## No. 2-SIR KORNDYKE SYLVIA

Born April 24th, 1918.
He is well grown, half white, nicely marked, straight top line, deep bodied, the sort they all like.

His Sire being from a son of King Segis who has 830 lb . daughters including Mabsl Segis Ko The sire's dam a 3 times 30 lb . cow.

His Dam Plus Sylvia Burkeyje, Butter and 10 days of age under unfavorabie cheres Kegis Walker is a brother of May Echo Syluis Burkeyje 26.67 lbs . with $4.6 \%$
34 lbs . Her Dam is Black Plus 34 lbs. Her Da fat at 4 years.

AMES Be CANAD

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 Minhenarigold (i4t.66 pound butter). the aunt whone yearly teat den Financial

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binancial king four timed Ho tracen Ave times, to Inerest tixest to Finance
Blue Belle five times. With thes and of breeading there can with this strangth in the Edgeley herd ts. mrongest producdng blood some of the
Houly centering around that canada



ROOT AND FODDER CROPS THE Pominion Buroa


Fall wheat ant As compared wit The area ostimand Fall Plowing. wheat for 1 totitmatod to bo mown to tail ooo hown last your par cront loas than trybed eustmato tor sse,000 berres, thi the roturn matio cho for in June has. 1 upon



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 aro for Manitoba 54 , as ag igainst 40 lat SPECIAL ENCOURAOEMENT TO PU PPECIAL ENCOURAGEMENT TO PUR
CHASERS OF REGISTERED E who contermplate and Datry,-Farmers keep in mind the spring's sowing should
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SPRINGBROOK FARM SOLD. S Plangibiook Farm, the home of the Catato to to the exercuat, oras recenty been estate to Me. C. H. Janzen, a florist in
the elty of Kitchener. Mrs. Hallman will the eity of Kitchener. Mrs. Hallman win
remove to Kitchener to Mive. Mr. Janzen
obtalns posesalon on Fol obtains possesalon on Fob. 15 next, but
does not plan to move to the farm tor year or two, employing a manager in the
meantime, The farm will bee operated as
a dairy and hlgh grade stock

DAIRY
Smmeal Consignment Sale OF

## Males $_{5}^{5}$ HLGTEINS 50 to be held by the

Brant District Holstein Breeders

## Brantford, Ont. on DEC. 18, 1918

At Hunt \& Coltor's Livery Barn at 1 P. M.
The Brant District Holstein breeders are endeavoring to make signors are offering some of their best the best yet, as the concows fresh or due to freshen about satock, comprising about 33 another a 17 lb .2 yeam-old, whose sire time, one a 23 lb . cow, cow. Among the bulls is a grand young show ber to the 50 lb . nearest damg average over 30 lbs and all show bull, whose three day. These are only a fair sample of all over 100 lbs . of milk per TERMS.-cash or one fair sample of stock offered.
 For Catalogues write
N. P, SAGER, Secretary, st. George, Ont.

COL, WELBY ALMAS,
Auctioneer.

PAUL HENGERVELD BURKE HERD SIRE

## HIS SEVEN NEAREST DAMS

Average over $\mathbf{2 0 , 0 0 0} \mathrm{lbs}$. milk in one year.
His Sister gave over 800 lbs . milk in 7 days. Yearly production is the basis of profitable dairyin On profitable dairying rests the ultimate success of any herd. Therefore, pin your faith to the long-distance test. PRESENT OFFERINGS
4 young Bulls from the above long-distance herd sire and from tested cows.
WRITE FOR' PARTICULARS
F. J. McCALPIN

BLOOMFIELD, ONT.

## Absolute Dispersion <br> 32 Head of

nire of the grat breediss nire seiv
lrince fian, fermeriy owned by at

## Buy This Fellow

You couldn't ask for a much nicer young chap-clean, straight, the right color and choice breeding. Born Aprit 11, 1918 . nearly ready for service. Also cows and heifers bred to our Herd Sire, Sir Echo Segis Netherland (29437). Also a few grade cows freshening in FebruNetherland
ary--priced to sell.
Woodward Jackson - Franklin Centre, Que.

\section*{Mountain View Farm

## IN HOLSTEINS <br> pfers <br> pfers <br> e. Brome and Valleyneld. His


IN CHESTER WHITES
prize senlor boars and Arst junlor boar at Boarb-The frat and Exhibition The older ones are from old stock hord who was twice grand champion at, They are atl chosee stock and wil be champlon sow at
priced at ensy value.

For further particulars write
M. W. MILLER, Mountain View Farm, Brome Centre, Que.

ORCHARDLEIGH HOLSTEINS


Midnight Gem Dekol, the gint oow in the herd. Dam of
she
(idnieht Comet Dekol and two others in the herd.



SPLENDID RECORD
W. years five representatives trom our herd During the part fow years winter fualor Their winm Miantigh

 Our Junior sire is badom in 7 dive 32.88 ibs. milis, 690.8 ina


 seven days. 18,7e0 libs. milk, SEE OUR OFFRING IN THE

WOODSTOCK
OXFORD COUNTY BREEDERS' SALE
TUESDAY, DECEMBER time, whose three nearent A two-year-over heifer due at mike in R.O.P. A choice antmal, well marked and perraint, from a For private sale, a few cholce young the breeding of our herst
 King yeeman ormesy, Breedere wlahing to seeure the
AS. G. CURRIE \& SON,
y yNGERSOLL. ONTARIO

THE NIAGARA Molitin breederie of the Niakith $\square$ Penimula are once more iaviting Peninsula aro once moration ming

 going out in the ovening This wiff give coimers an opportunity to get whero in
plenty of time, and to get away the the
pity plenty of timee and being hurried Dunit
 Will be taken froen Phe Houkl win Yave several head, Waren scringer, is son-
sikning pight, head, Frank Recker is put, thos th four head, and Wm. H Harvey is putuns in one. in fow cholice ones, in-

 amodious buildents which will bo suppled wih comfortable eating and electric lighte. The auction.
aera $w 11$ be B. Y . Kelly, of Syracuas
 Join Moote, of Camboro, is annes maile, One and W. K. Houck, R. A. No. A, stevens-
ville. ti secretary. Catclogues are now ville
ready.

## THE "E XCELSIOR" HERD AT

 long, but he has started right in the arret place ho reallzed that the bull whe
a lof more than halr the herd $\rightarrow 0$ the
 view farm of of Lakeview Ratter 2nd, the fnuest son of Lakeview Rattiler tho 196 champlon mature cow for both the seven days, and for the 30 days, elyht
monthe after calving. in her seven diy

 anthe Johanna Lad with lis dis
daughters and 54 cons. daughters and choloe females in the War:
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 3 yr. form, making her Canadlan dialy. plon. The soo of Lestrange by Dutch.
and $\operatorname{sir}$ Mona io the Jr. herd aire
 was refused for this buli, but every of. fer is being turned down. From the
crose with bis preent femiles from the
the cros sire, Mr. Wamer can expeet somp cholece reeorda. More will be neurd
from this fine young herd as its females from th
devolop.
A BIG AYRSHIRE EVENT.

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 bred Kyminh res, held of 50 herer the of punplese
of the Southarn Countes of the, Southarn Counties Ayshire
Breeders' Club, of which John Yokoe.
 Decomber 19 th at the Dr. Rudd ailes
Dat
 acter of the stock to go under the ham.
mer on this oceation. There have been
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 any former of cholee quality stuff, Tis atock consigned th ath young and the
riehent producling strains of the breed reher producing in the sale, A lar to
are represented
proportion of tho consignment will young cows due to frethen atovit sial
time or acon after. A grand aelection of ${ }_{12}$ lime or ang bulis is included. These anis mala are all around ane year of age and
among them are some very chotice typay among them are somit are it to head the
 contributing nine head, meluding iwo very bigh class young buist bred typleal temales are some extra well bred uypaid
young cowt whleh he considers are equal young cow superior to naythos he has tover previounily consigned. We took for some of these oows to top the salk.
Mr. J. H. Forden, Beachille, ting in two good ueful appearing coyk one of them beins of daumter, of the
noted cow, Beanty of
neachvilie. whition
 sligning eilsht head of good youns atwif of excellent breeding, Vlenna, is eon, tributing five hend, and pernons to then
for mome valuable sddulons datry herds should take "good hook at is consiming Erae., Belmont, are putting MneVloar Broe. Belmont, are putcing in three head excedinsly cholco typleal gpeement and exceedingly cholco typica gpeemmen and
have both qualified in the record of per have both ©uainea nre both dauchtert of
formance. They
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## Coming Fall Sales

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 Rowe of Currios Crosaing. Wies cleverine hle Hegiatered Holitimh
GECEMBEA $17 T \mathrm{H}$. - Oxtord


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SPAEADING THE GOOD. BLOOD There are few Holatein hesds in cy as mank from whel


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# mPREMIER HOLSTEINS 

## 100-lb. Dams

The dams of the stres that have been and are used in our herd are mostly $100-\mathrm{lb}$. cows. The dam of King Sylvia Keyes made the even 100 lbs ., of Albina Josle King, she averaged 103.6 lbs , for seven days, of the Mighty Monagch, she nearly averaged the 100 its. for seven days. Combined with this very high milk flow is the pronounced 40 and $50-1 \mathrm{~b}$. blood. Absolutely ideal breeding is behind every animal that finds ${ }^{2}$ place in the Oak Park herd. If t is blood and breeding, type and conformation you are looking for, we have them in our berd.

## WE OFFER THE COMBINED BLOOD OF CANADA'S 2-40lb. COWS eVENTUALLY YOU WILL BUY here-WHY NOT NOW?

## IN THE RING

W$\mathrm{X}^{\text {E bad unparalleled success at the leading Cana- }}$ dian Exhibitions for a herd founded in 1914. Our males have been prominent winners of frst places, champions and grand champions. Our females have met with the same success. This stock is a selection from other competitor's herds combined with other typey stock of our own breeding. It is well to remember this when you contemplate the purchase of a good foundation cow or a good sire
to lead your herd.


50: the biont PRIDE-No. 17403 152 lbs. Milk in 1 Day

## AT THE PAIL

 $\mathrm{K} \mathrm{V}^{\mathrm{E}}$ have in our herd over 20 mature cows for a foundation, and each member produced from 80 to 104 lbs . of mitle per day with large 7 -day butter records, from a normal per cent of butter fat. not abnormal. It is our alm to breed and produce cows that will milk the 100 lbs , at freshening and hold a high flow of milk for the year. We will achleve our aim as the offelal records backlng our males and Temales strongly indicate great yearly work. Don't forget us when you are in need ofmates or females.

## 

Compliments


HELBON BEAUTY BONHEUR-No. 30294 Grand Champion Cow, and only One of Our Heavy Producers of the Season
H. H. BAILEY manager paris, ont., canada

VISITORS ALWAYS WELCOME

Farm can be Reached from Either Brantford or Paris by Electric Radial

L. HENGERVELD WAYNE-No. 12430 WATCH OUR ADS. IN THE FOLLOWING ISSUES OF THIS PAPER

## MARKET REVIEW AND FORECAST


#### Abstract

$T$ anonto, Dec. ${ }^{2 .-T h e}$ foed situation in the peapon, True Feod Dipision oor the          ernment foed is Divilot, ortawn. 





## MILL FEEDS.

 We ot Montried ha 868 to 570.
HAY AND STRAW.



POTATOES.
marker is $\operatorname{stin}$


 $\$ 1.60$ to $\begin{aligned} & \text { EGAS AND POULTRY. }\end{aligned}$







 thet the peak has heen reanhint in poul-
cry mocelpts One Wemern Ontarlo ship.




DAIRY PRODUCE.

Cheose is quoted to the trede an fol-








 heavy cettle Fore on male, brit there Was




Quotations:-




## Holstein News

RECORD MAKERS IN THE MAKING.
 Ef pror, vamo and Dakjo-t have.

## W

${ }_{A}{ }_{A}$ Hemaks. B. Experimental Farmi Non
 mature cows at the Vancouver Exhlif
tion in Auruat, She Was then mad
Champlon Holateln Female, and then Grand Champlon Dairy Fomale over bread. Spen la a fine type of Holsteal
and last April dropped a hafer eal
eired by Inke sylva Beetn Fosch, the
srandstive of the $\$ 106,000$ bull at the
 Ormaby
are looking for some pretty
from this cow in the future. Iess \$1 to ti on light to thin hogs


MR. LEMON'S HERD.

## 0

NE of the herds that has been oomneotion, whah yearly work, is the
of Wiber Lemion, of lyndon. On: herd of Wiber Lemon, of Lynden, On-
tarto. This has been due to the faet that
after he had ssecured a good long distanee

 the cow which has done more than eny-
thing ele to make fis finmous has
been thing elae to make hus ies who holds the
been Plus Pontiac Artis,
Canadian recod for yeerly produotion
 lemon is raishng every thine no can in
thle Eine of breding, and has now in
demondints of the dam of thil oow in hts herd.
some of the sires whleh have helped to
increase the yearly produotion of tis Increase the yearly production of Marig
herd have been mons of Evergreen Maroh
end Datay Pauline Plet entje. The former and Davey Pauline Pietertje. The former
of thene oows has 26,400 ibis mift anit
 heavy pro


 men eno the Frosian ena Daury sior horn
 Booneot ihn breher they hare nowt on Mrethnts they leave It boo muxch to
 boont our tavertice.-W. W. F .

## T

 Canadian Ayrshire Breeders Asuso- it
clation, how to hand. As hal it of entry encale of points, rules and remu-
fintions for Record of Performanee, a lint of the form names so far repistored and
pertleulars as to Record of Performance tata of the breed. It soems to be char-
acterisile of the literature of the Ayruline Broeders' Assoclation to be weil illurtratfion to the general rule.
 Now Romberther Teo




WILLOW GROVE HOLSTEINS.

butter each.
King's dam one of the beet grand
daughters of Tlay Apbetcerl (88.72) the
 Netheriand
tam of the Champlon
the state of Michlgan.
slatean heifers (pix milking) and one
young buti fit for heavy servlee of this young bull ht for heevy sorvlee of ths This buil in three years of conti



 see. of young animale for breeding and
nales and
individuality offrse by auction and youns breeders. looking for foundation
stock can do no better than sttend this stock
For a better ldea, of the clase of catlie on sale, write R B. Fry, Drum
No. 1 , Ontario, for a catalogue.

## ROYCROFT <br> THE HOME OF WORLD RECORD HOLSTEINS

## Our Herd

holds more world's records than any other herd in Canada and more than any herd of similar $30-\mathrm{lb}$. cows than any other mor In Canada and it thas producen the highest-priced femnale ever aold in Clanada, Het two Pie tertje, $\$ 13,750$, wordd's recor helfer. Our herd was started right. We, had the proper fe males to begin with and by the use of still better sires we have brousht ahout a stendy fmprovehent Our orod of young stuff now growing into maturity would Madden the heart of any Holby elther ane or the are sired our three herd slres, Pontlad Kornayke Het Loo, a son of Pontlac Korndyioe: King Sogis $\$ 50,000$ bull, and Ponth of the Het Loo, a grandson of May Eoho Syivia. The helfers way mo ahead and make still more world'e records at Roycrott.


The areatest mill producer the worll
das, 1521 SYLVIA 11385.



## Young Sires We Offer

Study the photes ofi this inge They repreant tie jage, combination. The eombination crofe" symenymere fitme "Hi records, the masis with world'e records, the worla over. Wbuld you like to get "sext" this combination Fous oan da on by romgomas a liayoroft sire. We ean her to tlot teag Hore, a browortde rooord Lemifer, frome the of our frand plat, foundation of ows. We can inive you a say and from one of our leot tao omalas, siatere uf Hat Loo Loo of the somethord thill, whose som sun give you a tan of Het we
 out at
sines of future sonada fo be the
 produetas worlás reotara females
today
 Come to Roycroft for Your Next Sire


HET LOO PIETERTJE, THE $\$ 12,750$ HEIFER.
sixty dayn, Record for seven days, 30.32 ths, butter from $59 \%$ and
milly thirty, days, 122.01 the butter 223.25 lbs, butter from . 4561.1 lbs from 2962.6 lbs milk: sixty days
kind we mik This heifer rapresent, cently for $\$ 4,000$ and 86,000 , respeotis. We sold two of rapresents And
 Canadian breeders have the privi.
lege of profting by our succeas W. L. Shaw
"Like Begets Like" Roycroft Stock Farm


## (1) "MAY <br> "MAY ECHO SYLVIA," the holder of six world's champion milk and butter, records, also smashed all previous "price records" for  the previous high record price. The owner of this wo. <br> of Avondale of this wonderful cow, Arthur C. Hardy, FEED FEED. II you want to, feeds and endorses SCHUMACCHER you want to increase your milk est results possible from your herd - if you want to increase your milk profitsults you possible from your herd -it

More choice cattle of ecolized scrubs.

Through the period of reconstruction at the conclusion of the Great War good live stock will be, as it always has been, the basis of profitable farming in Ontario. Farmers of this Province should continue to place their confidence in high-class beef cattle, heavy-producing dairy cows, sheep which are valuable for both mutton and wool, and
the long, lean bacon hog. To work the land to produce the feed for greater numbers of live stock more weighty, heavy draft horses will be required. Ontario Breeders will "carry on." The threshing machine stays longest on the farms which carry the heaviest stock, the granaries are better filled and the bank account of the farmer swells in proportion.

- Prices for all classes of good live stock are likely to remain high in comparison with prices of grain and feed. Any shortage in grain may be made up much more quickly than the world depletion of live stock can be repaired.


Prices of weighty draughters are'
ready for an upward trend. Good Prices of an upward trend. Good
ready for horses are scarce.
-I The Stock Breeder who stays with the business, breeds well, feeds well 'and culls carefully always reaps greatest ultimate profit. Through ups and downs the man who "sticks" prospers. The in-and-outer is usually out of pocket.

The live stock of Europe has been depleted by millions of head. Breeding stocks of the beef and dairy herds across the water have been slaughtered promiscuously. Sheep flocks and swine herds are at a low ebb. Already Europe is calling to America for breeding stock. Not only must European herds be built up but the population must be fed in the meanwhile and, particularly, thousands of our troops must continue to be
fed during the extensive period of demobilization. Particularly must we produce meat and wool for the people of Great Britain and her Allies. It will take years to make up the world's deficiency in live stock. Herds and flocks should be strengthened rather than dispersed. Ontario Breeders never had such an opportunity. Breed for quality in all live stock that Ontario may do her part in establishing Canadian Brands on the British and European Markets.

If you are in the Live Stock Business stay with it. If you are not in, get in at once. You can use the money and the world needs the meat,;milk and wool.
ONTARIO DEPARTMENT OF AGRICULTURE

People have learned to eat more lamb and mutton. Wool for clothing



[^0]:    When the oven is too hot, and there 8 danger of the bread burning on top, untll the oven cools down sufficiently.

[^1]:    YoU. Cows an

[^2]:    One Method of Harnossing a Car to Develop power.

