

## Building a Stack to Shed Water

## A Minute Deseription of an Art We Hove Lost. By John Counie

IN atacking grain the first requisite
is clean, dry ground, and under no Is clean, dry ground, and under no
cifreumstance should a stack be
AII Overland Cans
ara Equifiped With built on ailk of any kind. Level ground is proterable to sloping, for
there is always a tendency for a atack to settle down hill, when buift on un co settle dow
oven ground.
Begin the stack in the same manner as building a round shock, setting the up as possilise, treadualty as atraight ap.as posaibie, gradually allowing the batts of the shearee to slope outthould be suflletontly portelt row gratn eannot reach the ground and thus prevent any toes.
Round aticka are preterable to ricks, as, in case of rain, they are more easlly protected from injury while in course of erection, and it is much easier for the pitcher to place the sheaves close to the stacker on a round stack than on the rick A round atack should not be more than twonty foet in diameter and a ten-foot pole can be ased to get the size of
the foundation, or by walking around close to the butts of the sheneaves twenty steps, i yard esch, will be proctically twenty feet in diameter. Work on the Knees.
Stacking whould be done on the kneas, a plece ot old, heavy cloth bethe overalle and protect the skin. With the right size for the foundaBlon secured, buill the outside course, Keeping the butts of the sheaves even with those on the ground, and with this course complete lay a second course, the butts of the sheaves to the band of the outside course, all ahenves pressed closely together and
Armly packed by the welght of the Armby packed by the welght of the body on the knees.
Continue in like manner until the conter of the stack is reached, pack-
ing it full and jumping on the eheaves ing it full and Jumping on the sheaves With the feet to Insure a high center In the atack whes fully settled. A grain stack properly built should be like a sancer hiverted, highest in the center and the slope to the outalde Just as ateep as it can be made and
at the anme time provent the alieares at the anme time prevent the nieaves
from allpplag off the stack. In met from allpplag off the stack. In fact,
with a well-built stack, the outsids with a well-built stack, the outside
course of sheaves is only held in places of the thaide rows of sheaves and in threshing when the finner and in threshing when the inner
courses are removed, the outaide courses are removed, the outsice
course will at times silp and tall from the stack. This is a sure fndication of a well-bultit atack and should it rain continuously for a month a stack built in this mamner will shed water equal to the beat ahingle root.
After standing in the ehock the butts of sheeves are slanting, this condition the resint of the heads be ing preased tostecher, and in layligg stack the long site of the of the should be lafd towards the stacker, overlapping the short aide of the pre: ceding sheat, thas insuring an even surface on the outaide.

The Head of the stack.
When drawing in to make the head of the stack, the long side of the sheat should be placed down and the ahor side on top, which aids mate-
rially in giving a slant on the head rind assists in in shedding rain.
For rapld work by rain.
to prevent overstretching atacker and to prevent overstretching, much will depend upon the ability and skill of the pitcher, as a good pitcher. will toss every shenf so that the butt will 110 forward of the stacker, the band may be readlly grasped, latid in sheaf and the readily grasped, latd in place his knees presses, the sheat closely in
International Harvester Company of Canada, Limited WEST-Brandon BRANCH HOUSE

 his hen
place.
In atacking on a side hill after the foundation is laid, extra courses should be buift on the low side of the allow for settiling. Jave the, level to courses on the low sides should be fol-
stack as a binder.
No rule can be siven an number of axtre coarses repuited ground, cars upon the slope of the stack leaning some taken to keep the when fally setted it wift bo standily when fully setued it wilt be standin
practically plumb on the ground

Buige Not Generally Advieable.
While a alight buige in the body
a stack when property buitt give
somewhat artistle. appoarance to the
stack it is not ossental, and too oftion
It is a positive injury. With the
heart of the atack kopt full and well rounded as it should be, from start inian, there is always a teadeacy the often when there ti a mouth and and stack, the heart has been kept flat to prevent sllpplng. and wht the stack settles the heade of sheaves are elther on a level witit the butts, or perhaps tipping down. an Invitation for water to onter every time it rains. Wis the heart kepi fall and the sheaves packed cloep together there will be a tendence apread out, without any effort to mate a buige, or awell, in the body of the stack, and care muat be taken keep the outaide nearly plumb, wit only a little awell, otherwise the stack Wead whtch is absolualy a step head which is absolutely necoseary to insure a dry atack, during a heary, dashing rain.
The whole art of suecoss in stack ing is to keep the aheaves from ntar to inish, in as nearly an uprisht post tion from the outalde to center, as it in
poasible to hold them from poasible to hold them from silipiligy
off the stack altogether. It meas work to build a attack in this manas worle to build a stack in this inamaer and it is mech sesier to lay the
shenves loonely, keopling the thick aheaves loonely, keoping the stack
about level inatead of low on the side and hight in the middale, and this side and high in the middle, and this farmers fall to ancoced in building grmorn fall to ancoeed in building a whille it the work is properly yates water will not onter the stack whel fully settled. It is bettor to have steep head on the stacter and a lown body than to have os hilgh body and a fat head, but it is only by actual os gerience, that the helght of the boly can be determined.

## Medium Helght Preterable.

 Lis a medium height is proterable, as of a beer to pttch shosers to the tof men at the present these are to stand with proent ume who cai pitch a sheat orer their hend in mind manner that the stacker whend in sua ing the mtack can readily prasi lins The siect shatd be in Eraip 1 Ing on a Indder and the foet athend never be thruat into the feet ahould atack maling holes for waler of the ter.A good ralking down with a steel a fow rake from top to bottorn atter morning then ang and eariy in the sheaves are damp with the of thit dew will ald materially in shediding the heavieet ralafall.
This work will require a twente toot hadder on which to stand, the same as used in lanishing the stack, and if a few forkfuls of long, kreen grass aan be secured to top out the grack shenves will be saved equally as well as thone in the body of the stack, In the absencs of grass or hay hreak a couple of sheaves, place on top as in cappling a round fhock, and secure by hangers to prevent thes being blown off by a hoavy wind. Stacks built as hore indicated will turn water equal to a good root, and
if allowed to stand six weela of two If allowed to stand six weeks of two months before threahing the grail Will have gone through the swating process and be in far better condition
than if threshed from the ehook and chan if threshed from the thook and the sweating is done is the bia.

Trade Increases the
VOL. XXXVII

## An

NOW, what you atop you have better coy
ago? Have you do the production of your $4,500-1 \mathrm{~s}$. cow, do you rea minuly made the minute you the cost of of mill from 20 to 22 pe cow producing the small much roughage and requ care as the other cow,
grain cost are practicall I will tell you briefly w why I did it. I was force to decrease the cost of not tocrease the price fon $g^{5}$ out of the dairy busi syutam of farming-or to In the year 1898 my At his death I had not or tlons which had to be m went along amoothly. a good dalry herd at tha Hivg, and now and ther gase a little; but as the $p$
to advance, Inereasing th to advance, increasing th
hend and, as the price of herd and, as the price of
fin proportion, the margin at the end of the year 19 tory and tried to settle tr
bustness basias for the nex bustness basias for the nex
$\$ 300$ or $\$ 300$ short of end $\$ 200$ or $\$ 300$ short of end
I sarure you it was a seric I sarure you it was a serve oblisations hanging ade would change conditions. wrould change con
my head a little.
a head a littue.
After doing that, I said 16 cows. There are 16 m
coavert the products of convert the products of
frcome and a profis, if 1 fncome and a prons, if 1
market for the crops I gi can handle that more eco can handle that more sumes more economically sumes more ecoacmine." more efficient mach ter over carefully, I decid
then January I would open an January I wouid ow that I overy dairyman has. I tho some that were not as goo with each cow, and I am g what I found after a year what cow 1 owned at the produced $6,115 \mathrm{Ibs}$, of milk each, and her average test fuced 256.84 lbs . of butter butter for every 20.8 lbs. habor cost and feed cost th For the purpose of com one containing. the 8 best a cows. The 8 best cows in milk and 258 lbs . of 85 per cowe averaged 192 cans of tar; a difference of 58 lbs Sf cents a can would amou forence on the 8 cowa of I want to show you what atter ten years work. The
were a lesson to me. to study and find out what

## Counie

## Fly Spray for Dairies

## It Will Cost One Cent a Cow Per Day

## By. Prof. L. s. aILLETTE, lowa.

Cows may be sprayed twice a day at a total cost of less than one cent per animal By treating aile cows early in the day, just after the If riving inilking and again at noon, when they are brought into the barn for feeding sillage or soiling crops. Files may be brought under compiete abeyance. This practice allows the objectionable odor present in most mixtures to pass ofif before the ensuing mulking. and thereby eliminates one of the object. ns com-
monly urged against fly sprays, namely, this of taintmonly ur.
ing milk.
Flies cause considerable annoyance to datry cows uuring the summer, both by attacking the cow along the back and legs and also by preventing her feeding to her maximum capacity, so aecossary for economtstable is also apt to be a frequent canse of ins in the stable is also apt to be a frequent cause of inefficlent
milking or ezen of wasted milk. directly ani indirectly attributable to flies is diffleult to measure, depending as it does upon the tempera. ment of the cow, the amount of milk glven, the number of flles prevalent on the farm, and many other factors.

Tany different patent sprays are on the market, suite unsatisfactory in addition many of which aro quite unsatisfactory in addition to being expensive. more economical as well as more effective to malt up his own fly spray. Thls can be quickly and easily done, as has been demonstrated by the lowa Expertment station during extensive tests of different mixtures in the college herd. After trying out many different preparations during the past few years, the fach ane has proved most satisfactory when all pared spray that has been available: Four and onehalf quarts coal tar dip, four and one-half quarts fish oil, three quarts coal oil, three quarts whale ofl, and one and one-half quarts ofl of tar.
These ingredients are added to lukewarm soft water, In which 3 lbs, of laundry soap have been dis. solved, and the total brought up to 30 gallons by
sdding more soft water. This amount is sufficient adding more soft water. This amount is sufficient to spray forty cows twice dally for a period of ten
days. This spray serves to rid the cows of flles and

In operation farmers aro now buylng tractors of their OWn. One of the several tha: have been purchased in on the farm of Mr. John Simmons, who tives work Courtland. "This tractor is exceeding my erpecta tions" Mr. Simmons told an editor of Farm and Dat?y, "Tt is ra'ed for 10 herre-power on the drav har and 20 borne-power on the belt. It pnlls thres plows and can plow nearlr an acre an honr of course, we must have good level land to make thla speed. I am convinced that the tractor has come to stay, and that I' will to a large extent displace horses on farms of ever 100 scres ${ }^{\prime \prime}$ This spring Mr. Simmon
crop with the tractor. In the put in almost all of his necessary to carry more aorics to rush throug been spring work than are needed at any other time of the year. On his 200 acres Mr. Simmons disposed of three extra horges when he purchased his tractor, and during the spring he used horses on the grain drill only. He will continue to use horses for cutting hay and grain, but the tractor will be used for all of the heavy work. The sale of the extra horses went a long Way toward paying for the tractor, and because he did not have these horses, Mr. Simmons sold 300 bushels of oats that would otherwise have been fed. Along with the tractor he purchased a three-furrow plow, costing $\$ 200$, and a blg double 32 -disk harrow. Mr. Simmons son, Arthur, is engłneer-in-chief, and makes himself responsible for practicafly all of the tractor work on the farm. Arthur gave us an example of what tractor speed means. Last spring he was preparing an eight-acre field for corn. He plowed this field and erossed It twice with the double disk harrow in just $221 / 2$ hours. On fall plowed oat ground he has found that, tetting on at the right time, onee over with the double disk and the drags behind puts the land In shape for seeding. His estimate of fuel use is one gallon kerosene per acre for disking and three gallons per acre for plowing, although it will take more than this in hard ground.

## Annual Pastures are Coming

## Some Observations of the Past Month

A
FEW years ago annual pasture crops were prac tically unknown in Ontario outside of Governever, these reports. In the past two seasons, how ever, these annual mixtures have been tried in practically every district of the province, due largely to the propaganda of Mr. A. Leftch, of the Ontarlo Agricultural
College. Two factors College. Two factors aceount for the ready acceptance of
the annual pasture mixture. In the first mixture. Mr, Lelteh demonstrated on a large scale on the
farm at Guelph that the idea is practicable. In the second able, In the second were favorable to an acceptance of the annual pasture fdea made farmers desir ous as never before of mafntaining a of maintaining a thoady production
throughout the senson. The high cost of concentrates made grain feeding to grain
mainialn the flow unpopular, and at
does not cause the coats of the animals to become A very simple structed by making a portable cart from a half barrel and wheels, to which is added a spray pump and anzle. By using this cart twe a spray pump and nozzle, By using this cart two men can spray a herd ishor plus the ingredients used in the The cost of labor plus the ingredlents used in the spray will be practically a cent per cow daily, while the increased milker and maintenance of more sanitary cow and makes the investment an exceptionally conditions one the investment an exceptionally profitable

## Tractor Experience in Norfolk

## A Tractor Displaces Three Hores

Tof tractors operated by the Ontarlo Department much to popularize the tractor in Ontarlo done ery county where Government tractors have been
the same time the scarcity of labor made soiling on any large scale impracticabie. The annual pasture mixture, which cost little, and once in the ground represented no further labor on the part of the dairymen, seemed to fill the bill. Practically every district visited by the editors of Farm and Dairy this summer has at least some annual pasture.
Mr. A. C. Hallman, of Waterloo County, Ont., has just one acre of the annual mixture, covering a paddoci adjoining the barn yard. Mr. Hallman apparently used a little of all the seed he had on the place, cs In the paddock we detected oate, wheat, barley, vetches, rape, sweet clover, red clover, alfalfa and alaike. In this small paddock Mr. Hallman ran a dozen cows in the evening for a couple of weeks: 25 hogs have been in the paddock off and on, and seven calves have pastured it contlnuously since it was flrgt ready for feeding "I like this pasture mix. ture first rate," sald Mr. Hallman. "I am not feeding my brood sows anything at all except the pasture they get here, and they are looking well. It also hid a decidedly favorable effect on the mill flow even when


In Clover-And Sweet Clover at That, This sweet clover was seeded without a nurse crop the
nase week of May on a ploce of nondy finna that for seary
had not grown even a decent enop of weeds The Tast waek of May on a plece of nondy tana that fo
had not grown even a decent erop of weedu The
Was secured on July $16 t h$ when a wrowth of 12
Inehes had been made. The crop will bo Dat
the cows
evening?

A short time after we vilted Mr. Wilma Mr. C. E. Moors, Peterboro' Connty, a visit. Mr. Moory had ten cows pasturing on a two and one-halt acce field adjolning the stable. "I never had anything on the place give so much feed off the same acreage," remarked Mr. Moore: That little fleld had been seeded with wheat, oats and bariey, as recommended by Mr. Leltch, and, in addition, with alsike, rol clover, alfaifs, and timothy, the intention being to keep the field for permanent pasture. Blue grass, 1 Is expected, will work in of tself
These are only a couple of the many instances that we might quote. The annual pasture mixture is du9 to hold a permanent place in Ontario's agriculture.

## Fertilizing for Wheat

## Some Significant Figures From Illinois

THe State of Illinols is conducting the most er-
haustlve and most conclasive fertlition ment of any state or province in Americu This work is under the direction of Dr. Cyril S. Hopkins whose object it is to determine some system toms of crop management that will ensure manent fertility of the soll. Most of this wark belng conducted in demonstration fields thr the state. The farmers of each district buy the land and deed it to the state for experimental purposet There are 40 acres or more in each plot, with perimental barn and threshing outfit. ments, therefore, are on a good scale, and the respits have a very practieal bearing. Whe-t threshing has aiready begun on these experimental fields. The fol|
lowing table of ylelds is for the oblong field in Craw. ford County, Ilinois. The figures speak for themselves:

teits) ....

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## These records show that as an sveras

of whent wert fncrensed near an average the yleld by the organlo manures, about 18 bushels per acre fimestone and elght crishels in addition by phos phate. In permanent systems of soll Improvement with sround Hmestone, fine groind raw rock phe phate, and home-grown manures, the srerage viell was nearly 35 bushels per acra, or ahout four lime the yleld from untreated land, which of ifself proAtreed less than nithe bushets of wheat
"Why expend labor to farm 40 seros
amount of wheat may be srown on 10 aeros, "am Dr. Hoplins, who bellezes that the reanlt of his Continued on page 9.)

## On

A Short Sketch
Bred Brys W

T$o$ one who has $n$
there, the phra head this art whlch hes been adopt
Houcks in connection arm, may seem somev pleasure of riding on leasure of riaing on
rard which extends vard which extends
fore of the majestic rom Niagara Falls
turg. Just acruss the ourg, just acruss the
Buffalo, or who has h Buffal., or who ational privilege of st at Black Creek and en ospitality of the farm Deniroc, the
During the past few During the past few
Llenroc Holsteins h figuring quite promin
filal the boys have become fgures at Ontario sa and it is quite possibl mate acquaintance a mate done, and what is The farmer and an enthusi some as an American known in his home el greater extent of the,
dent of the H. O. Comp and as also having inte cerns, Whether to his bu in any other way than
business man. I do not business man, I do not his fields without seelng man. They would see
places the welfare of $h 1$ hls fellow-man. They wo short years, had acquire
matters which is astoun of Ontario farm conditio
pathiser with the presen pathiser with the presen

Llenroc Farm consists Is heavy Welland clay,
this run several strips o At the back of the farm
upon which are grown upon which are grown
There are 60 acres oi th!
0 wing to the fact tha plece by piece during a plece by piece durib to pre
been impossible operations and a definite
farm is so far impossil allowed to stay with any han is profitable. The the farm furthest remove There are two large bar arns as required during nclude the alfalfa in the as advisable, then plowed to the use of lime. Thls i out of all the crops. Two
is fertilizer each year, an vestment. Owing to the been unable to put in c kills out in the low spots.
blue grass, but the two


A Crsup O

TO one who has never been
there, the phrase which there, the phrase which
head this article, and heads this article, and Houcks in connection with their farm, may seem somewhat fanclful. But to one who has had the pleasure of riding on the Boulerard which extends along the shore of the majestic Niagara, from Niagara Falls to Bridgeburg. fust acruss the river from Buffalo, or who has had the additional privilege of stopping off at Black Creek and enjoylng the hospitality of the farm home at Llenroc, the term is a verv reel one Indeed.
During the past few years or so Llenroc Holsteins have been figuring quite prominently in official reports. Mr. Houck and the boys have become familiar figures at Ontario sale rings, and it is quite possible that to those who have not had the privilege of more infl mate acquaintance a short description of what has been done, and what is now taking place in connec tion with the farm, may be of some interest.

The Proprietor.
Though known to farmers of Ontario as a boother farmer and an enthusiastic stock man, possibly to some as an Amertcan business man, Mr. Houck is known in his home city of Buffalo, and over the greater extent of the, American Republic, as president of the H. O. Company, manufacturers of feeds, and as also having interests in other business concerns. Whether to his business confreres he is known in any other way than that of an honest, successful business man, I do not know, but I do know that no one could visit at his home and walk with him about his fields without seelng more than a mere business mati- They would see a man who, before all else, places the welfare of his family and the welfare of als fellow-man. They would find a man who, In a few short years, had acquired a knowledge of live stock matters which is astounding, who is a keen observer of Ontario farm conditions, and who is a strong sym. pathiser with the present farmers' movement.

## The Farm.

Llenroc Farm consists of 750 acres; about half of it Is heavy Welland clay, as level as a floor. Across this run several strips of fine loose loam, also level. At the back of the farm is a section of rolling land, upon which are grown splendid crops of alfalfa. There are 60 acres on this crop now on the farm. plece by plece during a period of seven been bought plece by piece during a period of seven years, it has operations and a definite rotation covering the whole operations and a definite rotation covering the whole farm is 80 far impossible. No fleld, however, is than Is profitable. The principal crops are longer corn, wheat, oats, The principal crops are alfalfa, the farm furthest removed from the is on the part of the farm furthest removed from the main buildings,
There are two large barns at this end of the farm. There are two large barns at this end of the farm. The aifalfa is stored there and is drawn to the main barns as reguired during the winter. They do not include the alfaifa in the rotation. It is left as long as advisable, then plowed up and re-seeded.
Mr. Houck lays his success in the growing of alfalfa but of all the crops. This is so, not only of the alfalfa, is fertilizer crops. Two or three carloads are used as fertilizer each year, and he considers it a good in-
vestment. Owing to the vestment. Owing to the fact that they have as yet fills out in the low spots. These spots, the alfalfa blue grass, but the two combined mats grow up with


A Crcup of the Buildings. The Main Dairy Barn May be Seen to the Right.

While oats is not a crop of Houcks, last $\begin{gathered}\text { ance with the }\end{gathered}$ 1,800 bushels. This is all fed on the farm. Included in the farm equipment is a in the farm grinder, with which they do all thelr own grinding. The do all are mixed with such commercial concentrates as oll commercia seed, gluten, etc of whic cottonsiderable quantities are bought. in order that a farm of thls size may be worked to full advantage with labor as scarce as it is now, it is necessary that the the best machinery is used, All cluding side dellivery rake, hay loader, and two-horse cultiva tors. The milk from the Holstein herd is separated and made into butter right on the farm, a small modern plant having been put in
for the purpose. The butter is
mixture. They usually leave the alfalfa about five years before plowing it up.
food production a large share in the patriotic daty of This year they have 70 scres. This ts the is grown. which is sold off the farm, and all the only crop clover and timothy is done with this seeding of timothy is seeded in the fall with the wheat and the clover added with the last wnow in the spind the when the frost is the last snow in the spring, or in the honeycomb stage. They claim that this meund is has given good satisfaction, and that that this method this way and by proper tillage a smalter quantity of seed per acre is neces. sary.
The hay is left two or three years, according to up for corn and is plowed summer fallow, thoush the latter plan though consfdered advisable except in case of shore exof labor to handle cleaning crop such as cleaning crop such as
corn or roots.
Forty Acres of Eureka Corn.
Speaking of corn, thle year's crop covers 40 acres. It is the Eureka varlety, and usually stands about 14 feet high. There are four large sllos on the farm, which are as a rule crammed to the roof. Mr. Houck says that this variety gives good satisfaction with


A Representative Female; Jemima Johanna Posch 29.30 Ibs . Butter and Over
100 Jbs. Milk in One Day. usually cut it in the milk stage.
Hay also is an important erop. 100 Ibs, Milk in One Day.

Ifve stock matters and other matters of general interest, I asked Mr. Houck it he had been a farmer In the past, and not, how was it that he had become interested. He said:
Well, it was this way. A few years ago the Idea when the a farm had never crossed my mind. But when the two oldest boys, Bill and Chris., finished high school, they wanted to take the agricultural said that cornell. This was a n.w idea to me, and I said that tefore they did so they must first get a taste of real farm life. Then they would be better able to decide whether they would like to follow farming as a permanent occupation."
Houck, "having often locality before," continued Mr Houck, "having often come out for a hollday and to do some fishing during the summer. So I bought a farm of 190 acres and secured a good farmer to work it. Then I sent the boys out to work for him. They were to get up at five o'clock and rough it, Just the same as the other farm help. They were to clean out hog pens, dig ditches, and io all the other dirty work, and if at the end of the summer they still wished to be farmers, all well and good; and if they did not, I would sell the farm even if at a loss. I consldered that the experiment would be worth while, for I wanted them to know right at the start what sort of a proposition they were up against. They went along all summer, and I never sald anything to the boys till You're not going to let those boys work at that dirty
(Continued on page 9.)

GUILD'S SUMMER SALE!

L. R. Guild, Box 76, Reeliweod, On
L. R. Gain, Dox 76, Ree ivosd, Oni

MalreVour Bitieàa Filotoreycle Yhe



CREAM WANTED
or better service and highe market prices, ship your cream
to us. Cans mupplied free to us. Cans supplied free
Watch this apace for prices Our price next week 46 c per lb . MUTUAL DAIRY AND

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100 acres, with Crops
Horses, Cous and Tools $\$ 2,500$



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130 Nasoau 5t, ivew York.
 ThREL CEMTS A WORD, CASH WITH ORDER SMMLL QUANTITY STATIONERY


FARM WANTED-I with to purchese o

 fuil hascripton, , price and t remivint divive WANTED Good atoady man, married
 FARM FOR SALE - hundreg are





## Peck, Kerr \& McElderry <br> Mristers, soicitors, ale, 415 Water St., Peterborough E. A. Feck P. D. Kerr V. J. Mellidery



Manitoba Poultry Notes

PROF. M. C. Herner, of the Man-
toba Agricultural College, report that during the months of March April, May and June, 24,800 eggs wer at in the incubators of the poultry
department. Of these 4,336 eggo were infertiment 11,530 chickens were hatchinfertile; 11,530 chickens were hatch-
ed, or a iltule more than one-hali of the ed, or a little more than one-haif of the
fertile eggs. These results might be fertule eggs. These results might be
considered very poor by many poultry raisers, but when the targe scale of raisers, but when cone large scale of
the hatching is considered, together of the eggs from the different breeds, of the eggs from the different breeds,
the results muat be taken as very good. the resu
indeed.

There has been an enormous demand Poultry Depariment tisposed ot The 4,000 of them and at that could supply only aboat 10 per cent of the demand. Baby clitcks can be shipped any distion within three days. They carry soon as dry and shipped incubator as The production of the college flock is at least 25 per cent higher this year than last. The cost of producing ths eggs, however, was also conaisiderably high, Oner Oe thousabd six hundred
higher were carried over the winter and
hens hens were carried over the winter and
thene have now been culled to 900 with further culling in view. One thousand pullets of thls season's hatching will bring the laying flock to 1,700 for the winter of 1918-19.

Guineas for Eggs and Came THE By F, M. Christiansen. $T^{\text {HE }} \begin{gathered}\text { common Guinea fowl will } \\ \text { drive awny rats by fte ery, }\end{gathered}$ Knowing well the ravages rodents we purchased some Guineas
for the farm. These birds are na tor the farm. These birds are na-
tives of East Africa and of a wild natives of East Africa and of a wild na-
ture, a little amaller than a hen and beautitully colored in white and black, while their cry of "keets," "keets," is romantic. They soon became wonted to the place and roamed the fields and wood lots.
Gutneas are quite hardy and the
hens are most prolific layers. I have hens are most prolific layers. I have
found neats securoly placed in the found neats securaly placed in the
woodiot containing 30 eggs. We al weyas allow thom to carry on natural tacubation, but there is no reason Why the eggs should not be gathered and hatched in an incubator, thus in. suring large tlocks of Guineas for thy
markets. They are quite popular as subatitutes for game blrds, since they proyide a supply of poultry for
the table in the interval that comes between the time game is out of season and that before chlckens arrive
at maturity. They are oftenest sole at maturity. They are oftenest sola
at the welght of a pound and letch good prices.
It is a delightful sight to see a yard with 25 or mere little toddlera rumning after her. The birds are of a wild nature, but ours come up each day to feed with the hens. They for-
age far afield. I have heard them in our fartherest fields! They eat an astonishing amount of weed seeds and plck up Inestimable quantities of
tnsects of various kinds and aro an insects of various kinds and are an asset to any farm for they glean is provided for them with secluded nest and some high roosts provided, and they are tod every day in these quarters, they will stay at their house and bring their young there. Once the ittie ones got thetr bearing they may be depended upon to look ont for themselves.
Oufned eggs are a ittue smaller than those of hens, but they are beautifal and of a good flavor and may cooking, in lleu of hens' egss, and
an wery good, and since Guineas lay mon hens and it requtres much leas food to maintain them on accouat
of their wanderlure, it is the part of of their wanderlugt, it is the part of
wisdom to include a few of these is wisdom to include a few of theme ia
your flocks. your flocks.
I was in the city for Easter and
my friends took me to church. We my friends took me to church. We
had just nicely got seated when a had just nicely got seated when a
woman and her husband and children came in and occupled the seat just ahead of us. The wowsan had on a large black velvet hat and lo! the simple and only ornament was a wilte band of overlapping Guinea feathers encircling the crown. It was nobby, suitable and becoming fust from its simplicity.
I cannot be certaln that Gufneas really scare away rats or if it is the cats that leeep them eleared off, but Guineas about. They, have the Guineas about. They, together with the doves that occupy a large dovecote in the gable of the barn, provide maily a dainty for the table at very

## THE FARM HORSE

Working Brood Mares in Pairs

ABROOD mare in harness makee extra work and bother for the
driver when nursing a foal time is lost dealing with the youngater and humoring the mare. Two mares together are better than one for the reason that the two foals are raised If caused by one alone. If two maras with foals are together that pair can be kept at work which leaves them handy for briaging to the barn in the middile of asch half day while the tonls are small. Some other team can be sent on the long trip that keeps the outfit away from home from morning until night. It is hard on a foal to have the mare gone-all day, and it in a tedious tasi to milk the mare out at noon.

If a man plans to raise one foal next year he might juat as well plan for two If he has another mare that he oan mares are kept thers mateut it. The mares that settle and produce foals may be worked together in pairs, threes or fours as the may require from time to time. Then the best man with foals may have charge of them. Handled in that way, the fcals make so little extra work that the field operations are not mppreciably disturbed. Generally among preveral men there is one who would prefer attending to the mares with foals because of the interest he would take in seeing the litile fellows thrive. monthe usual mucking period is five months during the busiest thme of the take rear. Toward weaning time the foals turned care of themseives very well it quent nursing is unnecessary. Counting up the cost of manarement for the whole time it is really almost noth ing if the mares are paired off with each other and given stabte and pad dock accommodations conrenlent for handling them and their foals.-Breeders' Gazette.

## His Luck

A YOUNG farmer in Eastern Cansas for present purpones) to hts ways complaining of hls hard luck with horses. On his farm of 150 seres be worlcs five horses. For the pest five years he has lost at least one horse each year, and it in a usual thing for htm to have a horse or two siek and out of commiasion. te is ax. pensive to have horses dotng nothing howradays, and it ts even more expen sive to have them dying for no appase ont reason whatever. His hard lack with horses is holding this young farmer back.
This same youns man has nelghbors whome hornes are slways fit and nudy for work. Thetr good luck with

> Very Valuable Farm Property

## BY TENDER

In the Matter of the Ertate of Robert B,
Whyte, of the Whyte, of the City of Ottawa, Retir.
ed Merchant, Deceased.



August 8, 1918.
borses if ase consint tarmer
It is just a matter sttention. A horse,
thrives when it is com who complatus of his never regarded his ho makers in the same wh
his dairy cows. They and miss attention. grain on hand they
was none around, matter for a few das pastures were goo stables. Minor allmen
alt attended to and if a $\mathbf{v}$ called at all it w
as good as dead. Horses are on an up
will be a long time b will be a long time b
any cheaper than they farm teams deserve mis sure to bring "bad luek

Pork Restrictions A A of pork reads as "The Canada Food moved temporarily the tion has been made
pork production and pors production and
forts in Canada and the and the Food Board's
to-day, provides that to-day, provides and any part of th
bacon and an places operating under Board licenses.
Fond maling this anno In making this anno
Food Board stated tha of conservation meas creased production, pork from thereased by $125,000,00$ annum, which is an in
per cent over a five per cerage.

## Field N

Silo Filling Gangs
 which the farmers have am interested in the th idea, but it is silo fillin
we need more in this marked Mr. John Sim
farm adjoins the village in Norfolls county.
men to flll our siloes
threeh our grain and threeh our grain and f
addition. We require altogether at silo filling would be glad to pay th
involved in the gang met involved in the gang met
if we could get the gan if we could get the gan,
mons' sflos were itnastr; cement sillo for winter $f$ cement sillo for winter
amaller stave structure mer months.
$W \mathrm{~V}^{\mathrm{HEN} \text { callipg on }} \begin{gathered}\mathrm{N} \text { dropped in to } \\ \text { bor. Mr. George }\end{gathered}$ lives a mile or two away Ryan ever slace he star his grade Holsteln cows tent at Guelph, always
a good share of prize mo ear capturing the sweep At the time of my vialt
milling eight grade cows millking eight grade cows
have paised for pure-br anywhere, and he expec ween $\$ 240$ and $\$ 950$ hese cows were sprin That one cow had been the previous fall, had
tween $\$ 240$ and $\$ 250$ w tween $\$ 240$ and $\$ 250$ wc
in the meantime, and wa
bornes is as consintent as the firat farmer's luck is bad. Why the differ-
ance? asce?
It is just a matter of good, regular ttentios when it fs comfortably housed and well and regalarly fed This man tho complains of his laek of luet has tho complatsed his horses as incom aever regarded his hordes as income is dairy cows. They have gotten hit his dairy cows, They have gotten hit and miss atteatton, if there was rain on around, oh well, it diln't as ner for few days. The dryest mastures were pood enotug for the astures when they were not in the tables. Minor ailments were never ttended to and if a veterinarian was called at all it was when a horse was as good as dead.
Horses are on an up market and it will be a long time before they are any cheaper than they are pow. The farm teams deserve the best of attention and hit and miss methods are sure to bring "bad luck."

## Pork Restrictions Removed

ACANADIAN Press despatch from Ottawa on July 31, cancelling of pork reads as follows
"The Canada Food Board has removed temporarily the restriction on the consumption of pork. Such aetlon has been made possible by the pork production and conservation efforts in Canada and the United States, and the Food Board's order, passed to-day, provides that pork, including bacon and any part of the carcass, may be served at any time in public eating places operating under Canada Food Board licenses.
Food making this announcement, the Food Board stated that as a result of conservation measures and inpork from the Dominion have been trereased by $125,000,000$ pounds per annum, which is an increase of 571 per cent over a fivevear pre-war sverage."

## Field Notes

By "Mac."

## Silo Filling Gangs Needed

 $\mathrm{T}^{\mathrm{N}}$ the dairy districts of south-weatern Ontario, the filling of the sflos which the farmers have to deal "I am interested in the threahing. idea, but it is silo filling gangs that we need more in this district ${ }^{\prime \prime}-\mathrm{re}$ marked Mr. John Simmons, whose farm adjoins the village of Courtiand In Norfolls county "It takes more men to fill our siloes than it does to breah our grain and five teams in addition. We require 15 to 17 men altogether at silo filling time and 1 would be glad to pay the extra price involved in the geng method of filling f we could get the gang." Mr. Simmons' silos were illustrated in a recent issue of Farm and Dairy; a large cement sillo for winter feeding and a maller stave structure for the sumner months.WHEN callivg on Mr, Simmons, 1 droppea in to 5 ee his neigh bor, Mr. George B, Ryan, who lives a mile or two away on the road to Tillsonburg. I have known Mr. Ryan ever since he started to enter his grade Holstein cows in the dairy test at Guelph, always carrying away a good share of prize money, and one year capturing the sweepstakes itself At the time of my visit Mr. Ryan wae milking eight grade cows which would have passed for pure-bred Holsteins milk cheque for expected that his tween $\$ 240$ and $\$ 250$. All but one these cows were spring but one of That one cow had been-milreshened. the previous fall, had produced between $\$ 240$ and $\$ 250$ worth of milk in the meantime, and was even then
giving more milk than any of the
freah cow. I find that dairymen with cows of the callibre of thuse owned by Mr. Ryan do not worry particularly about feed bills.

MR. Ryan, during my visit, which lasted only half an hour, gave value of a constant supply of of the before the cows in the stable. water winter Mr. Ryan's water bystem, Last was the case on hundreds of other farms in the Province, froze up and the tank itself ras damaged, so that it would holf only a little water in the bottom. For some weeks the cows were watered outside. When the most of them had freshened Mr. Ryan began to put a little water in the tank night and morning and the cows immediately began to come up on their mik. "There is no guestion but that concluded Mr. Ryan and pays well," concl

A
FEW weeks ago in Farm and Dairy I told of how Mr. McKil. ath at the hands of a "gentle" his I have heard of similar cases since Mr. Malcolm Morrison cases since the Southern Counties Ayrshire Breed ars Club, went to the fleld last sum mer for a two year old bull that had always been regarded as good natured and harmless. On that particular day, howeyer, the bull turned on him and for several months Mr. Morrison was confined to the house and, I undertand, has not yet fully recovered from The results of the encounter. Mr. ack Simmons in Norfolk county had Similar experience. He was leading to another, with bull from one bari the ring in the a rope run through the boll began to pull laek nose. Firsi and then he charged and on the ring and then he charged and got Mr. Sim. monsed with his life a miracle that he and hear of "rentle" hull more I sed certain do I become that the only safe course is to remember that only safe is a bull" and never trust them an tnch.
"W E have Hydro for almost everything now," remarked dropped in to see him on his up-to-date farm home at Springford. "It is a great thing. We have lights all through the house. We have a light at the road which we can switch on from the dining-room, and lights
through the yards which can be switched on or off from elther the barn the lights in the barn before we lasp he hous in the barn before we leave the house and switch them off again I found that Mrs. Haley was most enthusiastis about her washir d-ma chine and wringer, both operated by a mail motor connected with hydro-elee ric power. This outht has simest comple'ely uliminated hand work. "Do ou vonder that wash day has lost iti terrors for me ${ }^{\text {P" }}$ asked Mrs. Haley as We watched it in operation. Outside the house a one horsi power motor the farm, and rums the emery wheel and other small tools. The pump comes in particularly fine in pump the millk, which is run over an ceorator and cooler. And I niust not forget to mention the toaster and electric tzon which complete the inside equisment. the latter taking much of the work out of Ironing day.

W
HITE turnips for fail feeding are eready favored by Mr. A. Ont. When I visited Mr. Hallman the last week of June, the white turnipa were fust showing above the ground. "I like to give thy sllage a chance to mature and develop that. peculfar flavor which is so accepteble to the cows before I open the sllos at all," remarked Mr. Hallman. "It is here that white turnips fill an important place. I feed them tops, roots and all and in the late fall, when otherwise. would have to be feeding ensilage,"

Financing Western Wheat

R
EPRESENTATIVES of the grain, milling and banking intereath Thomas White Minister of Finane and Hon. T A Crersr of Finance, Agriculture, respecting ine matter of Agricuiture, respecting the matter of inancing the western wheat crop.
question of a fixed price will fmmed question be a aken under will immed by the Grain Commission. The mation ter of the financing will be the mat by the Minister of Finance with up Imperial authorities and the the ers' Association. It ls lively Hank ers Association. It is likely that tu
glve financial and commereial bility to the grain situation the ciow ernment will give it wiarniee the fixed price upon the whole of the
new erep. This will enable the banks to extend the needed credite to grain promptly commence whe buying may is ready to moven wrai is ready to move.
Among those present at the conlerence were: E. L. Pease, Sir John Ard, C, A. Bogert, H. B. Mackenzie ler, Wagill, W. R. Bawlf, Frank Fow W, Young, B. Winans W. Kneeland, F, W, Young, B. Winans and others,

County Wants Auto Moneys

TCib cominy comencll ot Woot Peober borough has approved of the fol lowing resolution: d by Mr. Mr. Webster and secondod by Mr. Melntosh,-"That this counment to mont to refund the counties the money expended on the main roads of the different counties,"
A copy of this resolution has been ent to all the county clerks in Onario to be inad to the different county ouncils. The stand of the Peterorough councillors will be better un-群 borougn county has not, as yet, adopted the county good roads system,

## A Cheap Cream Cooler

WHEN the temperature of the how or spring water is not and it becomes necessary to use ice and a cooler, a device that is use ice an Arizona dairyman comes in handy The takes a common glass frult far, uart size, and fils it with cracked ce. The far is then sealed and piaed od in the strainer, which in turn is placed over a ton-gallon can. The can with the stratner and the Jar of can In set under the cream spour of the neparator in such a say that the cream sirilses the jar of that the side and near the fop of ice on the A considerable portion spreading over the lee melti the water jat. As forces the small pleces of naturally top se that the preces of ice to the the part of the far that is coolest The the jar that is coolest
The dairyman stated that a quart Jar of cracked tce was sufficient to cool the cream from a dairy of fifteen or twemy cows to keep it sweet for delivery,-M. E. B., in Country Gen. tleman.


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## Faril Hanagzment

Is the Corn Binder in Shape? Prof, John Žvans, O.A.C., Guelph, Ont. $T$ HE adoption of improved farm machinery has reducod the cost
of production on the farm in much the same proportion as hish
speed machinery has reduced the cost speed machinery has reduced the cost
of production in the modern factory. The efficiency of both has been raised, but we believe there is still an oppor-
tunity for greatly increasing the tunity for greatly increasing the eff-
clency of the average farm clency of the average farm without
ralising the cost of production or oring the farmer's profits.
The first requisite in this direction that speaks for advancement, for eft-
oiency and for better service is to properly care for all tarm implements and machinery. What if we do have the best corn crop in the province if our corn binder breaks down at every tura
of the field. The fact that smail of the fiold. The fact that smail pro-
fit in farming is the general rule and fit in farming is the general rule and
not the exception may be very lar aly not the exception may be very largely
attributed to the annual waste in farm attributed to the annual waste in farm
machinery due to want of proper care machinery due to want of proper care
of farm equipment. To reduce this of farm equipment. To reduce this
anual waste in farm machinery proper housing and intelligent and timely re-
pairing is necessary, pairing is necessary, Good housing
reduces deterioration reduces deterioration from the action
of the weather, while frequent and systematic overhintiling frequent and duces breakages to a mir'mum and the losses due to the stoppage of work at busy seasons.

A Corn Harvester Necessary,
Ty, handle the corn crop expeditiously, aconomically, and successafully
sorie kind of a corn harvester ts an absorue kind of a corn harvester is an ab-
soiute necossity, and fit must be in good working order. Varlous cheap machines have been tried and found Wanttng, but the corn binder has become a permanent fixture on a large There are several kinds of corn bind. ers on the market, and while each Kind may have its special morit as to t.e arrangement of its essential parts,
trouble must arise if these parts are trouble must arise if these parts are
not properly cleaned, ofled and kept in ${ }^{\text {al }}$ 'gnment.
The advanctog part of the corn binder consists of two diverging, jaws
which may be ralsed or lowered by an which may be ralsed or lowered by an
arrangement of levers. Attached to arrangement of levers. Attached to
each jaw ars two or three travelling chuins furnished with fingers. Their binding deck in an upright position as the macifne advauces. The chains should not be too loose as they will ride the teeth of the sprocket and silp ing packers-to prevent ears being knocked off by jamming thars stalks behind the needle-see io it that the packers yield slightly while the bundle
is being tied. Too many bundles crowding the carrier will interfere
with the binding attachment properly with the binding attachment properly
freelng itself. The knotter and the needle cannot do their work efficiently When covered with rust. Polish them
with fine emery cloth. if the knife of with fine emery cloth. If the knife of
the knotter is dull, sharpen it or it will the knotter is dull, sharpen it or it will
cause trouble by pulling the twine from the hook before the knot is made. As it requires considerable power to up by the roots, the knife should be thoroughly keen, otherwise fit will clog with grass and weeds. The stubble cutter should also be kept in good condition. It is a useful device, and when
rightly sharpened and adjusted does not add very much to the draft doen Superficial Examination Not
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mew waste; it s quired, put Into the
wells. Refll the grease cups: in thort, wella. Refil the greane cuips; in uhort,
renew and repaic saythtng and ovory, renew and repacic anythtng and evary
thing thit requires attention. The time of the year to do the general overhauling ts, of course, during the
winter months, when cther vork is not Winter months, when ether work is not
prensing, but if ft were not done then pressing, but if it were
it must be done now.

## Wintering of Grasshoppers

## D

ave over to the noext year. -B . $\mathrm{C}_{\text {., }}^{\text {ar }}$
The eggs of grasshoppors are deposited fraely in packets or pods in old neglected pastare lands along roadsides, etc., in spots where the soit is dry and largely free from vege-
tation. These egss are depoestiod tation. Thase eggs are depostted in late summer and autur in. Young
tocusts hatch about May of the following year. All living grashoppers die by the latter part of September.

## A Market for Linestone

 $W$ Ould it be a good inventment to stone, inewoord on my fam and the lime-tor hivencours. or would to be bet-
 crushed limatong or the lime and at Experiments are abundantly proving that carbonate of lime, that is ground
1imestone rock, gives, better limestone rock, gives, better results than burnt lime, when applied for agrs-
cultural purposes. I think there is no cuitural purposes. 1 think there is no doubt of this point. The Allis-Chal-
mers Company, of Milwankee, with an offece in Toronto, handle crushors made purposely for this work, Here tofore crusied limestone ryck has been sotd for $\$ 2.50$ to $\$ 3$ a ton in bags. One firm coming into the market now
state that they will sell under state that they will sell under $\$ 2$ a on in bulk. This would be f.o.b. potnt
of ahipment. I think that we. of ahipment. 1
try as much as possible to get this materiat shipped in bulk to save cost, and I believe the time will come when We can buy it for $\$ 1.50$ a ton in this we can
form.
Rega
Regarding sale, it all depends upon the nature of the soll in tyin netgibor there ought to be no dimeulty in sell. ing the product. The Ontario Government have bought a small crusher, presumably of the type that Mr. Campbeit would want and have it installed at the Penitentiary at Kingston, grinding ro $\%$ for experimental purposes. It Mr. Ca wpbell intends going into the business it would pay him to look
over tho work which they are doing there-Prof. R. Harcourt, O. A. C., Guelph, Ont.

## The Young Bull

THE bull calf should be separated
from the helfers at about from the helfers at about four
months of age. His treatment and feeding should be identical with that of the helfer except that to get
vaaximum growth he should receive a little larger quantity of grain. properly handled, the young bull is ready for light service at the age of from 10 months to a year. Too much service before he is two years of age
will do him permanent injury, which, Will do him permanent injury, which,
of course, should be avolded. It is of course, should be avolded. It is to halter, as this will make him much ensier to handle when he is old. At aix months of age a ring should be put into his nose.
Among some breeders it is the practice to remove the bull's horns at two years of age. It is assorted that this
tends to tame him and prevent tends to tame him and prevent him
from becoming victous. One thing from becoming vicious. One thing that should always be kept in mind is that exercise is essential to the proper development of a young bull and to the health and vigor of a mature
one. A small paddock, wha a shed one. A smalt paddock, whelh a shed for protection against stormy and Windy weather, will give him room
for plenty of exercise and keep him in for plenty of exercise and keep him in
good condition. Two bulls, if dehorngood condition. Two buils, if dehornage, as they exercise each other. Pre. cautlons should be taken to see that each recelves his proper portion of


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miles per gallon of gasoline bemiles per gallon of gasoline be-
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sunt, they give an actual nat cannot be computed if terms of money.

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On the Boule
 out rike."
sather under the weat Houck thought it a goo up the old subject aga and found that they
than ever flled with th In telling me of it, Mr. tald them,. Well, I gue
it To Cornell yount bc it To Cornell youlit bc
the two oldeat boys we. the two oldeat boys we
younger son also took th youngero wished to follo
and alco and of the business of necessitated the enarg
so bit by bit eight lots a added to the holding, un farm of $\begin{aligned} & \text { block wher sets of } \\ & \text { with }\end{aligned}$

Barly in their farm
boys displayed a Liking boys displayed a liking
stelin cow. Their foun breed were two cows $p$ J. W. Richardson, of Ci
of thase, Jemima Johar of those, Jemima Johar
side, bas given them stx side, has given of my las
At the time of my cow was under test a days prewous to my
over 30 lbs, butter an milk She had glven 11 months in milk, giving months in mik, giving
per day. Though havin,
erable- seven-day wort, erable seven-day work,
now running this cow their first attempt at $u$ she has given in 68 da
ibe. of milk. Her only ter has 29.30 lbs at Ave
ever 100 lbs . milk in her next has a 23.1 b .
record. She has also yearold daughter, two daughters and three
daughtors in the herd. was Johanna Rue Lura holds the worlds are-quarter udder. of ner daughters in the ar $25-1 \mathrm{~b}$. four-year-old rec In addition to the prog
fuundation cows, the foundation cows, the at
been careful buyers at avetion sales on both sid who for a few months hel record tn her class. This in calf to Mr. Cabana's
Great A fow of the oth are a 32 lb . junior fourry to Uniform Lorena, the is record three-year-old, a two daughters of FYeld's King Pontiac Korniger.
also a daughter of Orms also a daughter of Ormsb Whoee Eaghth.
They also bought a grar
King Segis Champlon, in King Segis Champion, in
of Fairview Korndyke of two heifers sired by Bighth. They have a ye has more $30-\mathrm{lb}$. daughte other bull now living, an daughter of the
Mighty Monarch. The tiditilual from the 28.34 old, Uniform DeKol. Thi grind-daughter of Vikana dam of the $50-\mathrm{lb}$. cow. T surchased at the consign sris last fall.
The herd now numbera young herd sire is worthy He is a son of Rag. App a $\$ 8 \mathrm{lb}$, funlor fouryear of King Segis. Thirty elf now in calf to this aire.
trature of the farm io
is trature of the farm is th
of about 20 heifers in of about 20 heifers in tigg type. When the youn
na the tarm and the prog
work are you? I belleve the dust is rery unhealthy," My reply was, "Well. If they are going to be frimers they threshing, and they might as well find out right now what it is going to be Hike."
After it was over, they did feel nther under the weather, and Mr . up the old subject again. He did so and found that they were both more than ever filled with the farmifng idea. In telling me of (t, Mr. Houck said, ") told them., Well, I guess that settles it. To Cornell you'll both go." When the two oldest boys were through, the younger son also took the same course and alco wished to follow the practical end of the business of farming. This necessitated the enlarging of the farm, so bit by bit eignt lots aitogether were added to the holding, until now the big farm of with three sets of butlidins a solid block with three sets of buildings.

## The Herd.

Barly in their farm experience, the boys displayed a liklng for the Holbreed were two cows purchesed from J. W, Richardson, of Caledonia. One of thase, Jemima Joharaa of River gide has given them six heifer calves At the time of my last visit the old cow was under test and in the seven days prewlous to my visit had made over 30 lbs. butter and 750 lbs . of mill. She had given 113 lbs, of milk in one day and was then, though two months in milk, giving over 105 lbs. per day. Though having done considerable seven-day work, the boys are now running this cow in $\mathbf{R}$. of $\mathbf{P}_{\text {. }}$ their first attempt at this work, and she has given in 68 days over 6,000
lbs. of milk. Her only mature daugh. lbs. of milk. Her only mature daughter has 29.30 lbs , at ive years old and over next has a $23-\mathrm{lb}$, three-year-old her next has is $23-1 \mathrm{~b}$, three-year-old yearold daughter, two other granddaughters and three great granddaughters in the herd. The other cow holds the world's record (for mille) for bolds the worid's record (for milk) for f hor daughters in the herd one with a $25-\mathrm{lb}$. four-year-old record.
In addition to the progeny of these oundation cows, the Houcks hav ean carefui buyers at the various They have now a 31 -lb two tho for a few months held the world record in her class. This heifer is now calf to Mr, Cabana's Rag Apple the Great $A$ few of the other good ones are a 32 lb . junior four-year-old sister o Uniform Lorena, the former world' record three-year-old, a $19-\mathrm{b}$, two-year old, both bred to the same bell, and two daughters of Field's $\$ 35,000$ bull King Pontiac Korniger. They have also a daughter of Ormsby Jane King, whose dam fs a daughter of Rag Apple the Eighth.
They also bought a granddaughter of King Segis Champion, in calf to a son of Fairview Korndyke Mata, 47 1bs., and two aeifers sired by Rag Ayple the bighth. They have a yearling daughter of Sir Veeman Hengerveld, who other bull $30-\mathrm{lb}$. daughters than any daughter now living, and a son and Mighty Monarch. $\$ 40,000$ buil, The fodividual from the $28.34-1 \mathrm{~b}$, four-year oid, Uniform Dekol. There is also a grand-caughter of Vitana Johmma, the Forld's record 14 -year-old cow, and dam of the $50-\mathrm{ib}$, cow. This cow was purchased at the consignment sale at Tris last fall.
The herd now numbers 95 head, 32 of which are at present milking. The young herd sire is worthy of mention. th, and On of Rag Apple Korndyke th, and Orchard Grove Auburn Segis, a 38 Hb , Junior four-year-old daughter of King Segis. Thirty-eight head are now in calf to this sire. A noticeable feature of the farm is the fine bunch of about 20 heifers in the pasture. Which appeared to be of the productige type. When the young stock now we the farm and the progeny of their
present sire are a few years older we may expect some great records from
this herd. While t

While the cattle are the main line of stcek, they have also a strong side
line in the form of poultry, The of R. I. Reds having been winners in line in the form of poultry, the flock have a strong outfit of horses, their faverite breed being the Belgian.

Farm Life.
The Houcks appear to enjoy farm life. Two of the boys are married and ive in houses on the farm. Mr. and curing the summer, Mr. Houck furm to and from his wark in Buff going auto or moto: boat. During the winter auto or meto: boat, During the winter finds many excuses for rumning Hout the farm just as often as possible.
One of the reasons which I believe
$s$ responsible for the success of the Houck boys on the farm is that they went at it under no mistaken ideas of What they were up against. On speak. ing of the subject Mr. Houck, senior sald:-"My idea was that the boys should run the farm, and as far as possible do their own work; that it should be run on a practical economic basis, and that if the time ever came when they could walk about the farm in silk hat, gloves, and cane, it must come through their own efforts and not from any outside source.
the farm is the satisfled things about the hired help. This ispearance of paying them wages out not done by poying the work Wages out of proportion Working regular hours, but rather by every brother man, whether he be evarer or capitalist, whether he be During the winter months it is the custom of the farm help to gather the gether one night each week at one of the farn houses, and there they are given the pleasure of entertaining themselves in games and music. It is a plan that works out to the satisfacLoL of all concerned.
These are a few items of interest on this big dairy farm, owned by a city business man, and managed and worked by his three city-born but farmeducated sons. There are many improvements yet to be made. The buildinge are practical but far from elabor ate. No covered ditches have yet ditched put in, but it is well surface bs added Necessary improvements will way, and judging by the way pay the way, and juaging by the way the boys time is not very far dind now, the the farm and the stock when both among the very bestock will rank among the very best.

## Fertilizer for Wheat

(Continued trom page 4.) work demonstrate that, with proper fortilizatloz, larger crops may be grown from smaller areas and with greater pronts. Prot. R. Harcourt, who has recently concluded a soll surrey In Western Ontario and is now work Ing in Eastern Ontario, believes that there are large sections of Ontario Where the proper use of commercial fertilizers would greatly increase the pronts of agriculture, and Frof Har court is planning as soon as practlo able to establish experimental fielis in Ontario similar to those now operated in IIlinols. There are some sections of Ontario where the soll is naturally deflelent in phosphoris acid In other sections lime ts the missing ingredl ent. In both cases experimental monstrations would be of immense value to the farmers in the districts affected.

The Dairymen's League of New York State has established prices for August and September as follows: $\$ 2.70$ for August and $\$ 2.90$ for Septem ber per hundredweight of three per cent milk at 150 miles from New Yort subject to the usual freight and butter fat differentials. The 1918 price is, therefore, 25 c . per cwt. more than last year in August and 45 c - more than in
September.


Whar Tinge Mea Wur Wia The War What are they ? $\mathrm{T}^{\mathrm{HE} \text { If }}$ I6 Clirese thove can be yin tour chier dinestatatere siasto

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## The Farmer-Banker Alliance

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 the doctor for medical advice; why not to The Merchants Bank forfinancial advice?

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## EXHIBITION NUMBER Aug. 29

Plan right now to get your announcements in this big Special issue. It' reaches the dairy homes just before "Farmers' Week" of Sept. 2-7. Make your reservations NOW.
Advertising Dept., FARM \& DAIRY Peterboro, Ont.'


$I^{T}$time to call a halt.

## Butter Fat or Camouflage

 stagratising to noto the growing tendency to tat rather than in estimated butter. In this the Ayrabtro breeders are leading the way. Fanclers of the Scoteh millch cow have practically abandoned the old 85 per cent basis of estimating butter, and speak wholly in terms of fat. The Holstein men adhere more strictly to the 80 per cent basis of estlmating butter. In the Jersey breed it is a case of "confuslon worse confounded," as fancters of the breed are variously using the buter fat, 80 per cent and 85 per cent standards. C. N. MeArthur, a Untted States breeder of Jerseys, illustrates the confusion that arises from this triple method of expressing production by reference to the cow St. Mawes Poppy, which prodaced 952.28 lbs . of butter fat, $1,120.32 \mathrm{lbs}$. of 85 per cent butter, or $1,190.35 \mathrm{lbs}$, of 80 per centbutter. "Is she a 952 lb . cow a a $1,120 \mathrm{lb}$. cow, or a butter. "Is she a 952 lb . cow, a $1,180 \mathrm{lb}$. cow, or a breed maintain a common basis of understanding sa to records when three sets of figures are beligg used in advertising and pablicity matters?"'
After all, is not computed butter a bit of camouflage on the part of breeders? Is it riot an attempt to make a cow's production look big to prospective buyers and the interested public? Computed buttor may have had its justification when the major portion of the milk of the country was made into butter In the home dairy, and the every-day, practical, dairy farmer thought of production in terms of butter. At the present time, however, butter fat is the market standard for the prodnet of the cow. Gream is sold to the creameries on the butter fat basis; the condensary is paying on the basts of the butter fat test; many cheese factories are paying by test, and it is not far in the future before all will be doing so. A change by breed socletios to the commer clal standard would do away with a lot of misunder standing, and even if it would depose a lot of thirty, forty and one thousand pound cows from thetr elect positions, it would at the same time sfimplify and rectify dairy publiefty.

## Canned Milk vs. Can Milk

WRrting under this heading in Hoard's Dairy-
man, Helen S. K. Willeox calls the atlo man, Helen S. K. Willeox calls the attention of etty millk producers all over America to a rival which may undermine their whole business. An lluminating paragraph from this letter follows:
"As we are well aware, the consumer palks at payIng from twelve to sixteen cents a quart for mill. That she balks not wisely but too well does not help matters in the least. But ahe must have milk now chooses is antity, and ineldentally that which she She chooses is untform in quality and always good. She finds her answer on the shelves of the corner grocery-and her bothersome milk problem is efMre. Housewife with a sigh of rellief used,' cries Mrs. Housewife with a sigh of relief. Many million women have found this to be true and the family cow is purchased by the dozen or box-and the millk
bottle dtsappears from a shocling numh bottle disappears from a shocking number of back toops all over America. 1t's surprising but true."
Our own observations are starllingly in accord Our own observations are starilingly in accord Whin those of this New York woman. We have seen the space devoted to canned milk in our grocery stores constantly enlarging and the numbers of buyers who order canned milk regularly just as constantly on the increase. Condensed and evaporated millks are rivals that milk producers and thefr organizations will do well to take into consideration. Is the willingness of the great Borden Milk Company to sell its bottling and dfatributing plants in New York State an Indication that they see the trend of consumptive demand and intend hereafter to give all of thetr attention to the condensing end of their business? And does this mean, in turn, that producera' organizations will be well advised to move slowly hit making groat expenditures on distributing plants of their own? Improved quality of can milk and economites in distribution may hold the consumption of canned mifk fin check, but from now on this dangerous rival of the efty mill productug busfness must not be overlooked.

## Tests and Tests

SOME years ago an Eastern Ontario datry determined to make a reputation for his
eteln herd through the instrumentality of Record of Performance test. For several y had cows running continuously in yearly test work He made excellent records and proved that ho had In hie herd some of the best producers of the bre in Canada. At the present time there is not a cor in this herd on yearly test, and, so far as we learn, thiss breeder has no intention of again ent ing cows in Record of Performance. Instead, hls cows and helfors are heing subjocted time offlicial tests.
A few days ago we visited one of the many goc Holstein berds in Western Ontario. In this hery too, Record of Performance had once been the pop lar tert. Here again there are now no cows entor for yearly work. Several of the cows, however, been subjected to seven-day official tests with creditable results and hereafter Record work is to be Iollowed exclusively.
Both of these men have switched from yearly short time record work for the same reason, is more money in it. The great demand an bigh prices for Holsteins nowadays are tor cattig with R. O. M. testa or backing. No one protands
to claim that a seven-day test is as good an to claim that a seven-day test is as good an indicy Won of a cow's commercial ability as is the ye test. There is a very general suspicion short time tests are more susceptible of manipnis flon by akilled herdamen. And inf the long rum. if is the utility test that must win out. Breeders who tollow the test and will sell their stock, however, can hardly be blamed for catering to the publice de mand. But are Holstetn fanclers as a body not making a mistake in etressing R. O. M. tests at the
expense of R. O. P. $\boldsymbol{f}$ This is a question that every expense of R. O. P.? This is a question that every
man $\mid$ who holds the good of his breed at hent should ponder carefully.

## Work and Fight (Country Gentleman.)

TH Wh necktie-counter clerk, the elevator runner, the elub doorman, the butler, the burglar, the pool-room loafer, the barroom bum - all the rest of the "non-essential" lads, as Provost Mas
shal General Crowder calls them-can plek thair shal General Crowder calls them-can plek thoir worker, anything that is either work or fight-000 or the other
But the fart
But the farmer has no cholee. He must do bothwork and 5 ght . He must work to grow crops in the face of such handicaps as he has never known before. He must ight to keep them from his ever present, ever-basy enemies-the bugs and ths
blights, the weeds and the weevils, the storms o i the droughts.
Nobody is pinuing any medals on the breast of that Middle-Western farmer who sat on the seat of a tractor for twenty-two hours at a stretch-and plowed in one day as mach as two horses could do In a fortnight. Nobody has cited for meritorious service that Eastern farmer who overplanted bis wheat acreage because the Government asked him to, and now has to harvest it with the belp of ons high-school boy. Nobody has even printed the pleture of that man who with his wife alone is milling elghteen cows and caring for a hundred and sixty acres of crops, fighting a gallant detensive to bring them throngh to harvest. These are the usual lacldents of 1918 .
The blistering, backbreaking toll of these men, and of millions like them, can be measured in no simple terms of shop hours, and though in their battle no bullets are flying they must fight on, for hunger and starvation are entrenched across the no-man's land of winter snows. Their sons bave enlisted and are fighting in Prance. Their hired men have gone to work in the munition factorles and shipyards. But the farmers themselves aro right on the Jol at the old place, backing up their absent ones and cheorfully carrying the double and triple barden of work
Work or fight' Heavens and earth, that's a oinch! The hard job-work and faght-is the farmer'sl

## Letters to

Demonstration Pl

## $\mathrm{E}_{\text {gind to }}^{\text {Diform by }}$

 are correspondent t are at last wakingand injustice of repo profit from small de
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strafned relations betwen country.-G. F. Marsh, Q


## A Soldier's V

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of our elty editors
apeculating as to w "over there" will think of Canadian farmers In
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tion measures of the These editors evidently lot of the boys "over
from Canadlan farms an from Canadian farms and
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## Letters to the Editor

Demonstration Plots Questioned
 are at last walding up to the finfurs and injustice of reports of excesslve profit from small demonstrations on farms. I firmly belleve that these demonstrations are largely responsible for the friction between city and country people at a time when we should all work together for we good of the country.
Such demonstrations tend to show the truth of some theory but should not be given out until proved on a farm. A short time ago the government sent out a circular stating that 70 per cent could be made on sheep. A recent article cuts it down to 38 per cent. It would be interesting to profits in sheep rafsing of nearly in half in a few months.
Our teachers all seem to be in bliss. ful ignorance of the fact that a farmar must make a profit on his whole. farm devoted to one department on account of weather, markets and the keeping of labor steadily employed A certain number of lines must be carried, as one alone will not pay, carried, as one alone will not pay,
Now if this is so there is no proft on one line unless the entire farm thows a proft. It is infair for the Agricultural Department to give the ares on small demeastrations and have the city people $t$ ccept them and average profits on a farm. Is it any wonder that, reading agricultural re ports, the city man should think that the farmer is a profiteer of the worst kind?

The farmer is censured for being a poor business man, but he does nothing so foolish as to single out amall plots and give it as evidence of his profits. Let the government show us a system of bookkeeping that fo better than what we have, that is not all theory, but that has actually been used on a farm that is paying wages, interest and depreciation. The wages, interest and depreciation. The flood of "hot air" be stopped, and that when figures of profit are given they should inctude the entfre proft of the farm after deducting Interest at any Victory Bond rate, taxes, wages for all concerned, depreciation, etc.
If a proper system of bookkeoping had been insisted on there would not have been so many fairy tales given out by both the Provincial and Dominlon Departments of Agriculture, and we would not have the present country,-G. F. Marsh, Grey Co., Ont.

## A Soldier's View

$\Gamma$ DITOR, Farm and Dairy,-Some 4 of our clity editors have been "over there" will to what the boys over there" will think of the action of Canadian farmers in protesting publicly against the recent conscriptlon measures of the government. These editors evidently forget that a lot of the boys "over there" come from Canadlan farms and underatand even better than the edftors in question the hardships that the recent orders will impose. In a case which came undor my notice, a couple of boyn from a farm home are already fighting "over there" and the main burden of a big farm fell on the only remaining son at home of millitary age. This son is drafted and I have been given permission to send you a copy of the letter which one of the boys "over there" wrote home whon he first heard that his brother was in tanger of being taken from the farm. It is as follows:
"In mother's letter dated May 7th, about for the first time of your worr about H- It inn't that he la any
there is any danger of army life fin. juring him. It would probably ife fm good. There is much about it that he would positively enjoy and he tan't the sort of boy to be hurt by it. But notwlthstanding this, it came But shocir to hear that there is a chanco of his having to go. We haven't seen any Canadlan papers, so knew nothing of the new regulation. There must be many between the ages of 25 and 30 better able to go than some between the ages of 19 and 28 , yot no provision is made for that, or for es. ceptional cases. I look on H.- es in a great measure responalble for in support of our home. Father is getting too old to have to undertake hard work and Willie is only a boy, Lefi to those two alone, with labor impos. sible, the farm will fust have to slide. "It may seem unpatriotic, as this year is undoubtedly a eritical period in the war; the line simply must bo held-yet I shatl regard it as grley ously unjust as well as glaringly poor judgment if he and others as responsible for the production of food are taken yet. As for H.- himself, it would have been the easlest thing in the world to have gone long ago. It was popular and honestly the army has great attractions to offer. It it were only he, I'd say go by all means. As it is, I don't Wike to think about it. If he goes the farm will fust have to slide. In any case it's you who matters, not the farm, and you must not attempt to do impossibilities. Seed the whole place down if you seed have help, look after the Holstens and Plymouth Rocks, keep wall and let everything else go tili we come home. You can't grow wheat faten hogs and cattle and invest in Luberty Bonds without help on the farm don't work too hard, and sarm. So don't work too hard, and above all don't worry. The war is golig to be won airight and as long as you are there when we come back, nothing ise matters in the whole blinking world.
I consider this letter a pretty good answer to those who wonder what the boys "over there" will think about it. enough to know what common sense protest as deow that farmers did not protest as decidedly as they did with. out having mighty good reason for their action.-R. 8. P., Ontarlo Co., Ont.

## For the Rail Fence

EDITOR Farm and Dalry.-Several 1 articies have appeared in Farm fence and lauding the wire fence rall fence and lauding the wire fence. A
good web-wire fence of not less than good web-wire fence of not less than will admit, provided the farmer, all the 70 c to 75 c to pay for a farmer han six and seven-bar fence is littls it. The six and seven-bar fence is little better
than single wires, as it allows aleep and pigs to go through allows sheep fence would, to the a good rail fence would, to the majority of Old Ontario farmers, cost more than a 9 .
bar wire, hence, probably, "sour bar wire, hence, probably, "sour grapes." The most of the fences on my farm are rall tence built of straight spruce rails or "longers," six rails to a panel, ralls cut to a uniform I have thonsand, worm or angle, 3 ft . I have thousands of those rails grow ing on my wood lot. I want no better fence. I prefer this fence, for at leas the firat eight years of its life, to the best nine-wire web fence. Such in fence is horse, bull, pig and sheepproof. It is good, when well buft, pickets well driven, vertically, in ground, and with galvanized wire weights, for eight years, and if eross. stakes are used in addition to the two vertical stakes to a panel, it strengthans the fence greatly and prevents torms or very breachy horses from pulling it down.
I had a wire fence in part of tia yard. My mother this spring made me pull it down and make a rail fence in ts place, as her lambs and some of the oreachy sheep were going through it. Now, with the rall fence, these
(Continued on page 16.)

## You've no time to waste

IF you expect to get your silo erected in time to take O crdere a of your longe. 198 com crop, don't put of placing your
With the riltoods congeted with war traffic, no manutacture can guarantece prompt deliveries very far ahead.
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## OUR FARM HOMES



OST thou love life? Then do not squander time, for that is the stuff life is made of.-Benjamin Franklin.

## Her Happiest Vocation

WITH a sigh Hestel dropped her This summer there will be an added
book. It was useless to try to joy. You will be there, too." study longer. She must think about what was so troubling her, Of course she knew that there was no way and the same thing for her And she dreaded both. it ame : 0 her unpleas. antly that she was perhaps the only girl in the whole school who did not look forward to the fast approaching nummer with engerness and for, But, then, that was not her fault. Whose fault indeed was it? "Tree never been able to find out," of getting along at home someway. Of course I know that things will go better when I get to earning money by teaching. Then I can really begin to help. But now- oh, now! How am I ever going to live through such another vacation as the last?"
She sighed again heavily while her gaze wandered about the pretty room. Mentally she contrasted it with what awalted her at home. There were some things about the room that were al most luxurious, but these had all heen contributed by Janet. Janet was her room mate. For Janet to have a wish granted was as easy as crooking her Iittle finger. It was almost as if she lived within constant communication with a fairy godmother.
"Lucky Janet," thought Hester, wistfully.
As if in response to her own name the door opened and Janet entered. She was smiling.
"Good news, Hester!" she cried, waving a letter over her head
"For you?" There was a listlessness in Hester's tone. She was not expecting any good news.
"Yes, and for you, too." Janat dropped down upon the divan beside Hester. "Listen! In my last letter home I asked mother if I couldn't in. vite you to spend your vacation with me. And she's written to say I may Hester!" She flung an arm about Hester, and hugged her. Aren't you glad?"
"I'm so glad that I can't realize it yet," Hester answered, slowly. "Oh, Janet, it is beautiful in you and your mother to give me this opportunity to hì ve a really happy vacation. You see I was thinking about going home Just as you came in And I actually dreadd It, Janet."
II can't imagine anyone dreading to go home," Janet said. "Why, vacation is one long hollday for me. Tom's home from college and Katherins from the conservatory They have hosts of frlends, but though I'm young. er they always let me finto their goos times. There's boating and pientes and auto rides-father's got a new car, you know. And Maria, who has been with us ever since I was born, makes my favorite dessert tor me. And there are new books to read and new stories ty hear, and always a lot of invitations. The only trouble is vacation is soon over. Just as I begin to realize I'm having a perfectly sptendid time the dressmaker is hired in and begins to fit me out with a new school wardrobe.
"Yes!" Hester was flushed with anticipation. She laughed gaily, "And to hink all my worrying was to no purposel her that Just write to mother and She will consent, I know. But I want She will consent, I know. But I want
to be sure."
Three days later Hester got a reply written in her mother's delicate, wa. vering hand. She awas willing that Hester should spend her vacation wits her sche.
home.
calling-calling to some hitherto un awakened
within her.
School ended in the usual flurry of farewells and departures halt gay, half regretful. Some of the girls were go tog not to return; their lifework wai like Hester, were lookligg triumphantly forward to the next year as thetr last Hester and Janet walked to the sta tion together on a morning all hope sunshine weaving earth and golden guther.

We change at the Junction, yor know," Janet explained. "I always hink that's such a nuisance.
don't know anything abogreed. "But don't know anything about it. You see home. It's only thirty miles farther -" She stopped, suddenly. For it occurred to her that when she was at the Junction she would be less than one hour from home.
"Heater, look! Those are real rural characteri, aren't they $?^{\prime \prime}$
Heater looked and the color flamed in her face. The two passengers who had just entered the train were coming down the ainle looking for a seat. It was evident they were unused to traveling. They were old people, poorly
dressed in old-fashioned clothes. He dressed in old-fashloned clothes, He carried a ruaty valine and an umbrella. She clung to a shabby handbag.
"Oh, dear," Hester thought uncomortably, "I hope they won't see me


Girl Flax Pullers in Wellington $\mathrm{Co}_{4}$, Ont.

"Of course we have all looked for ward to your coming, dear, as you mrive yow, but we do not want to de you happiness. And I realize that you have worked very hard all the year and need more complete rest than you can find here at home."
Hester's eyes. flled with tears. She felt a sudden straining at her heart of the ties that bound her to her old home.
"But It's my last real vacation." she whispered to herself. "And it's the first I ever took all for myself. I'll do better work next year because of it And surely I am entitled to one royal good time before the actual busineas of life begins. Mother seems to feel that as well as I"

Yet all that last week while she was inishing her year's work and packing away the things that she intended to take to Jamet's, Heater was not reaily happy. She could not have told whence it came-that little, haunting con scfousness of wrong-doing that rose up With her in the morning and lay down with her at night. It neemed all the time as if there was a still, small volce
barrashing if Janet were to find out knew them.

She put her hand up ostensibly to straighten her hat, but in reality to shield her face. The next instant she felt a hand fall upon her shoulder and knew that she was discovered.
"Why, it's Henter Rice!" exclalmed a tremulous, slad old voice. "Look here, pa. Here's Hester Rice. Why, Heater, I'm real pleased to see you. School's over I expect and you're on
your way home, eh? Well, your ma will be right glad to gee you. I never thought of beeing you, Hester, when we took the train back there. You see we've been visiting Nancy, our marrled girl. Your ma's fuckler than I am -She's got all her girls at home yet" "How in mother T" asked Hester fatntly.
"Why, she's real nort of poorly, Hester, to tell the truth. You see she's had it pretty hard ever since that tree fell on your pa-n
"What!" The color fled from Hes. ter's face. "What do you mean, Mrs, Pingrees A tree fell on father! When?"
"Don't you know" But maybe they
ept it from you fearing it would
worry you. Why, it happened about
a month ago, Your pa was a month ago. Your pa was
down an apple tree and inst down an apple tree and inst
falling straight as he expected pled over against another tree pied over against another
got caught under it. His
thrown out of thrown out of joint
laid up with it yet. As I sald,
it pretty hard for your ma everything herself. And just spring of the year, too. Of cou
girls help, girls help, but they're youn
whole thing rests on her Whole thing rests on her
She's a fine, noble woman She's a fine, noble woman and a gm neighbor. But I shouldn't 'a' told yoi dearie. Only I thought you knew." Hester didn't answer. S ing straight ahead with
their new gloves, crushed her lap. The old people after waith a moment for her to reply went on an empty seat.

Hester," Janet leaned near too bad you had
Still Hester didn't speal
feeling that she was intrudind Jame some kind of seeret strugele back in the seat and turning lir a resolutely away, watched landscape. It was only whe tion appeared that she dare dress Hester again. Then she touch her.

Hester," she whispered, the Junction. Come, we must be read to get off.
Hester
eyes.
"Bu
sald. But I'm not going to g
"T'm going on hom
ees. Don't you see,
do anything else can't do an
"Oh!" Janet wailed.
everything if you do that
made such plans, I've l made such plans, r've la
hopes. And just think, H it's gol home. "I do," Hester replied, gr
I'm thinking, too, of what mean to mother and the get there. I'm sorry, Jane you see, I can't do anythin
out hating myself always? out hating myself always? haven't been on very goo
myself ever since you ask
we are, You must get ve are.
"Good-by. Hester. Oh,
Good-by. Hester. Oh, I think yo
the bravest girl, and the lo
Hester went to the door with Jase Then as the train began to move of of the crowded station she way
last good-by and went back eat where the two old people "Mrs. Pingree," she said tremulos
ly "Will you let me go thome wal
"Why, Hester, child, of coume What a question. And glad to hus you. Pa , get up ond let her sit dom
here by me. She looks real tired lle And for mercy's sake, There, there, child, don' I told you upset you oughta known better. afterward. But I thought $y 0$ have too, it I had been the have too,
It was wonderful how her ber ightened as she climbed the ste stony road to the old gray h
the knoll. It was wonderful, the home-spirlt flew out to and help her up shabby verands down outside the She set her suiteun knob softly entered.
"T've got all the weeding and hoetr done," Emily said. most broken, Elizabeth.

Next time you must
you," Elizabeth replled
isters are for-to help each other?
Hester crept to the door
"Girls!" she breathed
They turned and saw her
Their glad cry brought
mother, father leaning on his crutd and looking thin and white, and moler trying to hide her weariness countenance with a brave smile. "Hester!" They murmured, loolt at her as if they could not believe at
(Concluded on page 15.)

## The Upwa

As Christ in
${ }^{\prime} \mathrm{A}^{\mathrm{S}}$ the Father so I have lo
in my love, in my Father's love." Christ had taught I to abide in Him was nigh, and He canno more to them. They have many question what that abiding it love is. He anticipa Her whace, and exp life as the best expc their ablding in His to look to His ablding love. In the light of the Father, their unfo become clear. His ilf the law of their 11
is the thought is so can hardly take ic in clearly revealed, tha
neglect it. Do we no neglect it. Do we no
Vi. (ver. 57 ), "As I live even so he that eatet so diatinetly (John they may be one even in them, and Thou Father and His life in ple of our thoughts al in regard to our living Him.
Think first of the or of Christ in the Fathe ne-one in life and o oot. Though dwelling He knew that He was ather; that the Fathe his knowledge, abiding and His love would hav mpossible. And in love. Know that thou Him-one in the unity His birth he became ith thee. By thy new somest one with Him, artaker of His Divine hik that binds thee to and close as bound ather-the ink of a was His o ay union with Him is And as it is the unio life, it is one of an inf tasted the blessedness of knowing Himself the frinite love, and of dwe ites thee to learn that I secret of rest and foy. with Him: yleld thysel loved by Him; let tht heart open to the love th presses in on the
Think then, too, of the abliding to the Father Which is to be the law o abide in His love." His subjection and depende most blessed. To our pr fog nature the thought o and subfection suggests bumiliation and servitud of love which the Son and to which He fuvites the secret of btessedness not afrald of lowing aug ap all to the Father, fo have no interest apart the beloved Son. He kn complete as is the depen part of the Father of all I expected $\underset{\mathrm{His}}{\mathrm{H}}$ 1 said, It's mads ur ma seeing to , meme he her shoulden dn't 'a' told your
at you knew,"
I. She tr. She sat stay
th her hands in
shed together
 ned near, "If
ear that. peak. And Jan
intruding struggle, hed he da pered, "we're
e must be

## The Upward Look

## As Christ in the Father

$66 \triangle \begin{aligned} & \mathrm{S} \text { the Father hath loved me, } \\ & \text { so I have loved yoin }\end{aligned}$ so I have loved you. Abide In my love, even as I ablde In my Fataer's love, "John xy, s, 10. Christ had taught His disoiples that to abide in Him was to abide in His love. The hour of His sutfering is migh, and He cannot speak much mave many guestions would doubtless have that abiding in Himk aa to love is. He anticipates and his love is. Hie anticipates and meets their wishes, the best exposttion his own itfe as the best exposition of His command. As example and rule for thelr ablding in His love, they have love. In the light of His unfon with love. In the light of His union with the Father, their unfon with Him will become clear. His life in the Father
is the law of thetr life in Him the law of their life in Him.
The thought is so high that we can hardly take i. in, and is yet so clearly revealed, that we dare not neglect It. Do we not read in John VL. (ver. 57), "As I live by the Father, oven so he that eateth me, he shall live by me"? And the Saviour prays o distinctly (John-xw/i. 28), "that they may be one even as we are one: If them, and Thou in me." The blessed unlon of Christ with the Father and His life in Him is the only rale of our thoughts and expectationa In regard to our living and ablding in Him.
Think flrst of the origin of that lifs of Christ in the Father. They were one-one in life and one in love. In this His ablding in the Father had fts root. Though dwelling here on earth, He knew that He was One with the Father: that the Father's life was in Him, and His love on Him. Withont thls knowledge, ablding in the Father and His love would have been utterls impossible. And it is thus only that thou canst abide in Chrlst and His love. Know that thou art one with Him-one in the unity of nature. By His birth He became man, and took thy nature that He might be one vith thee. By thy new birth thou becomest one with Him, and art made partaker of His Divine nature. The link that binds thee to Him is as real Father-the link of a Divine life. Thy claimi on Him is as sure and always avalling as was His on the Father Thy union with Him is as close.
And as it is the union of a Divine Iile, It is one of an infinite love. In His life of humiliation on earth He tasted the blessedness and strength of knowing Himself the object of an mifinite love, and of dwelling in it all the day; from His own example He invites thee to learn that herein lies the wecret of rest and joy. Thou art one with Him: yield thyself now to be loved by Him; let/thins eyes and heart open to the love that shines and presses in on thee on every slde. abide in His love.
Think then, too, of the mode of that abiding in the Father and His love which is to be the law of thy life." kept my Father's commandments and abide in His love." His was a life of subjection and dependence, and yet most blessed. To our prond self neeklig nature the thought of dependence and subjection suggents the iden of humiliation and servitude; in the life of love which the Son of God Lived, and to which He invites us, they are the secret of blessedness. The Son is not afrald of losing aught by giving ap all to the Father, tor He knows that the Father loves HIm, and can have no Interent apart from that of the beloved Son. He knows that as complete as is the dependence on His part is the communication on the part of the Father of all He posessses. 2 th Father of ait Ho poscesses.

Christ as the pattern and the promiae stand how the "Without me under do nothing." is but the forerunner of I can do all things through er of who strengtheneth me," We learn to glory in Inflrmfties, to take plensure in necessitles and distresses for Christ's sake; for "when I am weak, then am I strong." He rises above, the ordinary tone in which so many Christians speak of their weakness while they are content to abide there, because he has learnt from Christ that in the life of Divine love the emptying of self and the sacrifice of our will is the surest way to have all we can wish or will. Dependence, subjection, self-sacrifice, are for the Christian as for Christ the blessed path of life. Like as Christ Ifred through and in the Father, even so the bellever through and in Christ. Think of the glory of this life of Christ in the Father's love. Because Father's Hill and wholly to the Father's will and glory, the Father
crowned Him with glory and honer He acknowledged Him as His only He acknowledged Him as His only representative; He made Him par taker of His power and authority;
He exalted Him to share His thron he exaited Him to share His throne as God. And even so will it be with him who abldes in Christ's love. If Christ finds us willing to trust our selves and our interests to His love,
if in that trust we give if in that trust we give up all care for our own will an-i honor, if we make it our glory to exercise and in all things. if we are content to have no life but in Him, He will do for us what the Father did for Him. for us what the Father did for Him.
He will lay of His glory on He will lay of His glory on us: As
the name of our Lord Jesus is glorl fled in us, we are glorifed in Him fled in us, we are glorified in Him (2 Théss, 1, 12). He acknowledges us as His true and worthy representatives;
He entruats us with His power: He He entruats us with His power; He admits us to His counsels, as He alHis our intercession to infuence His rule of His Church and the Worid;; He makes us the vehleles of His authority and His infuence over men. his spirit knows no other wher form such, and seelcs no work Blessed life of His Divine work that abldes in Christe lore, the soul that abides in Christ's love, even is He in the Father's
What we only need is this: to take time and study the Divine image of this life of love set before us in Christ. We need to have our souls still unto God, gazing upon that life of Christ in the Father until the light from heaven falls on It, and we hear the living voice of our Beloved whts. pering gently to us personally the teaching He gave to the disciples.

And if the thought will sometimes come: Surely this is too high for us; can it be really true? ouly remember that the greatness of the privilege is fustifed by justifled by the greatneas of the obfect He has in view. Chrlst was the revelation of the Father on earth. He could not be this if there were not the most perfect unity, the most complets communieation of all the Father had to the Son. He could be it because the Father loved HIm , and He thode fin that love. Bellevers are the revelstion of Christ on enrith are the cannot be this unless there be perfect unlty, so that the world can know unity, so that the world can know
that He loves them and has sent that He loves them and has sent
them. But they can be it if Christ them. But they can be it if Christ
loves them with the inflimite love that loves them with the infinite love thes
gives itself and ail it has, and if they abide in that love.

By constantly endeavouring to do one's best one acguires the power of doing that with spontaneoushess and facility which was at first the whole effort of the mind. The reward is threetold, the astisfaction resulting from acting on a Just princlple, improvement in the art, and the pleasuse derived from i, constant pursuit


Has been Oanada's Faverite yeast for over a quarter of a century: Bread bakeet with Royet Yeact will keep freeh and molet longer than that made with any ether, so that a full wootro aupply oan easlly be made at one baking, and the taet teef will be Just as good as the first.
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## GIRLS

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HERE IS YOUR GOLDEN OPPORTUNITY:


## ALBERTBUSINESS COLLEGE, BELLEVILE, ONT

School Ro-opons Soptember Mith, io1s ser seax
Witto for toolentar apond september Pith, 1918


## More Insurance Needed

©HE people of Canada purchased $\$ 50,000,000$ more life insurance during 1917 than they did in 1916. This is in keeping with a stimilar marked increase during the previous year.

This increase is iggnifcant. It shows that the poopla realize
(1) the lessons of the war that emphasize the uncertainties of the future;
(2) the wisdom ofinvesting increased earn-
(3) her furtare protection;
(3) those already insurod realiza the need cost of tiving more proteetion as the Cecreacing the mounts upward, thus Gecreasing the amount of protection given sum of money. enjoy from any

These lessons of the tlimes point to the wistam of providing adequate lifo insurance protection.

A Mutual continuous monthly income policyi under the endowment plan, would assure you of an income at the expiry of en endowment perfod of; say, 20 years, At loast 240 monthly payments aro guaranteed to yourself, or your benefciary. If you survive the period the income continues for Iffe.

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FARM AND DAIRY
No More "Subtle" Tones or High-Topped Shoes

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



August 8, 1918.

## Training the Children

 No. 4Take Children Into Partnership By Mrs. V. Oma Grace Oliver.
IRENTS must not look down

PRENTS must not look down
on the child and consider his forts, trials and sorrows we must try to understand how cerely they put all their hearts
their play and that the losses their play and that the losses ment to them. We must lear share all their experiences with If we would develop the fine feellina we wish them to have at maturity Children must not be shut off tit part of the house to remain alool til a certain age, but ought to part of the family circle, sharing
joys, work and minor sorrows. not mean that children ahould be puabh. ed before visitors, have all their meals at the family table or remain up till their elders retire, but there are times right and privilege really to be mem. bers of the family.
Even when they
children can assume responsibbity for certain light tasks about the hou and as their age and strength increa ded. and more duties should be at been to remove all responsibility from the child and to give him a carefre
childhood. I would not take one se ond of joy away from any child, b I would make it a joy for him to fed helps in the making of it by perforn ng certain duties that need to be dono or the comfort of all. The and silver, help set the toble furniture, and min many errento stairs and down, and he loves to tel that he is "mother's helper."
Children are so open-hea
feady and respond to faith and trust
often miss great happiness by wi sharing our hopes and joys more free ly with them.
If we keep the bond very close our blace ll chome the great meetin: companionship children will be like a powerfill mag net whose attraction the childree cab. not resist.
So from these beginnings the homo need never tear that the allurements of the world can draw our childrea will always return to the "center of deep repose."

Work of Western Women's Sections Ow that our farm women in on.
tario have in mind the organiz. tion of a Women's Section of the U.F.O., It may be interesting tr ing accomplished by the variow
ing the is the Women's Sections of the Grain Grow. ers' Associations in Western Canada For instance, there has been some agitation for free hospitais in parts of the West. The ladies of the Forest Bank Grain Growers Association of ing to discuss the guestion. Sevent of the members had prepared papers on the worlding of municipal hospinis After the matter had been thoroughly Afscussed, a resolution wau sent to the council of the rural munlilpality ate ing that the village hospital might be madeinto a munleipal one. While the councillors did not agree to enter into the scheme of joining with other neighboring municipalities as prorib ed by the Muntcipal Hospital Act, they did agree to provide free hospital ac commodation. The council does not pay for private wards, and maternity cases are limited to 21 days. The hospitals in the district know of the arrangement and send the accounts to the council of the municipality for set tlement. The council is increasias the cax to meet this expenditure, whild year per quarter section.

## August 8. 1918.

The Women's Section Souris, Man., is aiso doin In the spring they held meetings for season's work. One se they worked was to sell Saturday, A committee ed to arrange and have pr book of tested recipes Another committee made members and a membersh was pit on in fune. Th the various moath farm May, the slingle tax; June thy devices: July August, nationalizat bources and puim held in comm church and the associatlo cooperation and community vember, federal governmel vincial government; Decem meeting.
This club adopted a cree which is worthy of passi readz:
"Keep us, 0 God, from pe us be large in thought, is
deed. Lat us put away fi and leave off self-neeking. put awny pretemse sind, othor face to face, withot and always theroun. m row calm, serene, gentle. grow
to put into action our better stralghtlorward and unafra us to see it is the little thi that create differences-that
things we are one. May to touch and to know the $g$ woman's heart of us Lord Cod, let us not forget to

We can and will furnish for the farm, the dairy, t naker, the houseaold ment how to get it.

## CMYADIAY <br> Far

 Harv"Going Trip I
going dates
August 20t and
August 29

## August $22 n$

August 29t

August 8. 1918.

The Womien's Section at Little Souris, Man., is also dolng good work.
In the spring they held a couple of In the spring they held a couple of meetings for sketching out plans for
the season's work. One scheme which they worked was to sell home cookinis and produce in Brandon on a certain Saturday. A committee was appoint. saturday, to arrange and have printed a cook book of tested rectpes of members Another committee made out a list of women in the district who were not members and a membership campaign was put on in June. The program committee drafted a line of study for the various months as follows: April, the income tax and farm book-keeping; May, the single tax; June, Iabor savthr devices: July, open meeting: August, nationalization of natural resources and public utilities; September, the aim held in common by the church and the assocfation; October, cooperation and community work; November, federal government and provincial government; December, annual meeting.
This club adopted a creed last year which is worthy of passing on. It reads:
"Keep us, O God, from pettiness; let us be large in thought, in word, in deed. Let us put away fault-finding and leave off self-secking. May we put away pretense and meet each other face to face, without sell-pity and always generous. Let us take time for all things and make us to grow calm, Berene, gentle. Teach us to put into action our better impulses. straightforward and unafraid. Grant us to see it is the little things of life that create differences-that in the big to touch and to know the great, common woman's heart of us all, and, 0 Lord lod, let us not forget to be kind."

We can and will furnish any article for the farm, the dairy, the cheese maker, the household or yourselt FREE. Ask the elrculation dopartment how to get it.

Her Happiest Vocation (Continued from page 15.) they saw. "Our own oldest girl, Hes: er!. And then Hester found thelr armsand hearts.
"You look fine, Hester," Janet declared when they met again at school in September. "You are browner and plumper, but that isn't it, either, don't know what it is. Maybe it is rou had had a impleasant look as if ou had had a unpleasant vacation at
"Janet," Hester said, earnestly, "that was the happlest vacation I ever shall have if I live to see ninety of them. If you could have seen how glad they were to have me at home! And I was just as glad to be there. Of course I worked hard, but aren't they all working for me? I never realized before just what an effort they are making to keed me in school. I learned such a lot, too, Janet. I learned that duty isn't disagreeable unless yo uthink so. And the best kind of happiness is making others happy. So you see,
Janet," Hester ended, smiling. "I am Janet," Hester ended, smiling. "I am
batisfied. And that's saying a great tatisfied. And that's saying a gr
deal."-New England Homestead.

## A Durable Whitewash

 $\triangle$ GOOD durable whitewash for garden fences, rockeries, etc., bushel of quicklime willow: Slake one lons of quicklime with twelve galpounds table water. Dissolve two phate of zinc aalt and one pound sulwater. Pour in two gallons bolling lime, add Pour this fato the slaked and mfx two gallons skimmed milk cheap bar soap dissolved in a gallon of bolling water and added to about ive gallons of thick whitewrah will give it a gloss like that of ofl paint.Be what your friends think you

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 ak for "Harvestery' Work and Weges" lenftot.

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## WESTERN GANADA

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## AUGUST 15

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Works like lightning - makes preffect butter
in from $\mid$ to 3 minutes. in ream I to 3 minutes. aving. FREE Write today for
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 The Hamiton Automatic Chura ( 0 .

THIOK, SWOLLEN GLANDS that make I borse Wheeze or Choike-down, can be reduced with

## ABSOREINE

alo other Bunches or Swellings. Noblister no hair gone, and horse, keptat work. Eco-nomical-only a few drops required at an appliation, 5, so per bottle delivered. Boat 31 free. Eind, reduces Cyter, Wems, Painful, SwollienYeins and Uloerr. 11.25 a botile at dealers of delivered. Book "Evidence"

HYLO SILO
8weet ${ }^{\text {Tresh Ensilage }}$
down to tho inat forkful


Farm and Dairy is in an excel lent position to champion the
cause of the farmer in Canada cause of the farmer in Canada, because it is owned and co
troiled exclusively by farmers.

HARVESTERS URGENTLY NEEDED IN WESTERN CANADA.

When travelling to Weatern harvest folds, go by the Canadian Northern Rallwey, and thereby give loyal support to the People's Line.
Informastion of value to harvest hands is given in a leafot entilled had trom any C. N. \& Agent.

For the Rail Fence (Continued from page 11 .
animals no longer go through. In fact, 1 am almost ready to say that, given
my choice, 1 would almost as soon my choice, 1 would almost as soon
have a now rail fence as a new wire fence, as we havs all kinds of antmals on the place to feace out-horses,
cows, sheep, pigs and geese-and the cows, sheep, pigs and geese-and the
rall fence effectually prevents these animals from onolng through its 1 am
and animais from going through it. 1 am
not, however, ready to endorse an old rail fence when some of the rails become rotten or partly so. If the plekets are driven a foot in the ground and
at least a few suporting en or pickets, say, every second panel, this fence is good, without repair, for eight years. I have seen woven wire fence that look pretty "shaky" after
elght years" use. average five inches in the ralls we use lower rall or rafls may be six, while the top rail will do as small, as four Inches; but the average is five inches in milddles. The stakes are three inches. The material is spruce and fir. The pickets will rot in the ground in not broken, will be as good as even. The fence may then be rebult, sharpening the plckets anew and the fence is then good for several years $\underset{\text { more. }}{\text { w }}$
We have rail fences on this farm
20 years old, being repared of 20 years old, being repaired, of course, several tumes. In fact, an old rall
fence must be repalred every spring fence must be repalred every spring.
As to taking up space with our cheap As to taking up space with our cheap
lands I don't consider it. The fence occuples a space of $31 / 2$ feet. Thts fence should not be compared to the
old Virgimia snake fence with worm old Virgimia snake fence with worm
or angle six or elght feet and with or angle six or elght feet and with
cross-stakes oniy, no uprights. True the rail fence is disappearing, and in most cases no wire fence takes its place. The average farmer has no
ralls growing on his farm, and wire costly.

## The Makers' Corner <br> Butter and Choese Makere ary in. vited to send contributions to this 

Cheese in Western Ontario

Dmeeting at Guelph last apring. J. A. Ruddick, Dominfon Dairy Commissioner, gave it as his opinion that the increasing city population of
Weatern Ontario would lasd inevit Weatern Ontario would laad inevitably to a reduction in the output of cheese factories as creameries, as
more and more milk would be divert. ed to the elty trade and intimated that the trend was aiready in thls d1. rection. Frank Herns, Chiet Dairy Instructor for Western Outario, rather took exception to Mr. Ruddick's statement and quoted the figares for the make from a couple of representative countrea over a period of years. In Oxford county, for instance, the make of cheese in 1910 was $10,545,000$ lbs. and in 1917, 10,315,000 lbs. In 000 lbs , and in 1917 make Wis 5,961 000 lbs . and in $1917,5,427,000 \mathrm{lbs}$. will spply fares, Mr. Herns believed, will apply fairly well over all the other countries where cheese is made,
and all things considered, the decline in production is very slight. At the In production is very slight. At the
game time, however, the output of creamery butter in. Western Ontario has increased from $5,50,0000 \mathrm{lbs}$. in 1907 to $21,000,000 \mathrm{lbs}$. In 1916. Taking butter and chesse togeth3r, therefore, lactory production has been weil

## Women in Cheese Factories

$\mathbf{I}^{\text {N Europe a large part of the farm- }}$ made cheese is produced by women, who, judging from the excel-
noe of their products, are aid a elaes
well fitted for auccessfully convert ing millk into cheese. Any woman with a fitting apprectis a cook and cessity of cleanliness in the preparation of food possesses the fundamental requirements of successful cheesemaker. The chlef obstacle in our cheese factories would women in be the matter of physical strength There are doubtless some women wht could readily perform the full duties of cheese manufacture and factory operation, including the heavy work. But this will not usually be the case and for this reason the employment of women is likely seldom to be practical d by one man.
But in factories large enough to require two or more persons during the summer there is unquestionable opportunity to more fully utilize female labor. Where a woman has the abll-
ity and the trainting she ity and the training she may be competent to take charge, being provided with male help for the heavy work, or
the helpers' work may be taken over the helpers' work may be taken over
by the woman employe, comprising by the woman employe, comprising the ighter operations, such as help-
ing in the curd handiling, book-keeping in the
ing, etc.
We look for a very material increase in the number of women employed in our cheese factories if the war lasts
during 1919.-New York Produce Review.

Test of Sour and Sweet Cream

$D$OES oream test more when it is question has been sweet? This times, and many been asked many belleve that by holding thefr cream unhigher teat. "This would be given a higher lest. This would be possible under one condition," says E. O. Hanson, of the -dairy husbandry Aivision,
University Farm, 8 Bt Paul, Minn University Farm, St. Paul, Minn, and that is, if a can of cream is allowed to stand for a long time at a
rather high temperature, enough mols. rather high temperature, enough mols.
ture will evaporate to increase slightly ture wil evaporate to increase slightly
the percentage of fat, but it will bs the percentage of fat, but it will bs
very sllght and the cream will no long. er be fit for food. It would bring no higher price, as the extra percentage higher price, as the extra percentage
of fat would only make up for the moisture that had evaporated.
"To illustrate: In 80 pounds sweet croam tesing 30 per cent fat
there are 4 pounds of buttertat there are 4 pounds of butterfat. It
this cream were allowed to stand until five pounds of molsture have evaporated, there would be 75 pounds of rated, there would be 75 pounds of would rield 34 por cent fat. It aleo and it is needless to as of buttertat, and it is needlese to say that the butealled cream would not be for human consumption."
"How do you know that cream will not teat more when it is sour? In reply Mr. Hanson tested eight samplested glaseware and each, using recream scales the tests in duplicate. They ran from 16.5 to 88 per cent. They ran from kept in alr-tight bottles selied will paraffin to prevent the escaie of with moisture. They were held at or any mately 80 degrees F for approx They were then tested agatn nasing the same test bottles to syou ang posrible error, and were again tested in duplicate. On comparison, the two tests were found to be exactly the same.
ft may be true that in some casen the creer test has been reported when cream. If a slowed to stand for any leneth of time and has become sour the mill solids settle and become rery mour and firm, making it almost imposerible o get the cream thoroughly mixed nd the sample which ts taten mill not represent the contenta of the can, as there would be practically no fat in the milk solids, which are left unmixed. If a higher test is given it is netther fatr nor sceurate.

Dr MeKay on Qleomargarine 6 TCe ery of the age is for fit nut more fat," sald
McKay, secretary Grican Assoclation of Creamer
Manufacturers. "The result Manufacturer. come on the market butter tur all right when used in connect। other foods, but they lack th principles of growth necesaary young, and for this reason the menace to the health of our peop These words were but the prelif ary to a lengthy address by Dr. Mcku when he vistited Canada recently, In which he exposed the frauds $p$ pe petrated by the manufacturer butter subsitutes and made case agalnst oleomartarine.
"nuggets" from Dr. McKay

## "e as follows:

Phyalologista tell us that there in necessary to the in butter which an These two subitances are the voune in the leaves of certain plants Erowth principles,' as they are not found in any of the are butter substitutes, and for t
other reasons, considered as, oleomargarine c "It we follow the efter but mining the value chemists in mining the value of foodstuff. mallow, valuable thes butter and valuable na oieomargarine suggest that ehemically inisitl midit rich as any casmically ihistles areal rich as any other fodder. But nothily
but jackusees will eat them. Many leadthe selentlet.
Dr. Harvey B. Wiley, have stated the for growing children have stated thit substitute. A subacriber Housekeeping' magailine Dr. Wiley as to the ralue enquired garine. Dr. Wlley answered nuts would not feed liss children cither margirine or oleomarkarine, is hial were lacking in the prineiples at growth.
"To compare butter with margartes ${ }^{3}$ Hike comparing gold with brass. ways followed back
closely as they the price of hurtet aleo for cookling in the publle way lard, tallow and purposes, let them bry them. Paeker cottonieed oill and mit hem. Packers made a proft in of 47 per cent, on the mixing
has alwanufacture and sale of The alwayn been accompanied by trai garine in Untted sturer arine in United States in now under a indictment of two years in the peen entuary and a \$10,000 ine for trail dentally, Dr Mekay romarlory had had eloomarmarlo to that vin the hotel that neter, for supper displayed hat night, but no card mu as is regutred by fraud has already started in Einateote) "France has the best lawn goverily the sale of oleomargarine. No may garine can be colored in France, Mans facturers of margarine must make mes garine only, and the retall stores hand. ing it must display a sign in lettent foot high 'Margarine store' In Boh
gium margarine gium margarine cannot be sold in the
same stores aa buttor. In England same stores an buttor. In knglanc, margarine is aolerin the name stored As butter and coloring is permitted if England, too, I found more complaint
of fraud than in all other countriem combined.
"Does the lack' of coloring problbit the sale of markarine? No, but it dou prohibit the sale of margarine as bot ter at butter fat prices. Markarine is people of Denmark are and yet the people of Denmark are the hearient
consumers of margarine in the worll. "I hope the time will never come fin this country." concluded Dr. McKsy, When Its butter will intestinal fate of the hog and the cor."

The National Dalry show will be heid at Columbus, Ohito, October 10 a to 19th. A vary large part of tho 8tate Fatr grounds at Columbis are the building in whieh the Dater thot was held last vair will be aratlob for use agata thla year. bred, born and raised
hibition, the shield to $b$ pasecutively, betore beco on in 1912 arcola, Sask. No No
lcLean, Are
When war was declar pont, and gave his life for
alue of the shield in adv


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## The Watson Challenge Shield

- His shield was donated in 1911 by Captain.Geoffrey L. Watson, of Weatholm Manor, Vancouver Island, B. C., for the best Clydesdale of wallist-
bred, born and raised in Canada, to be competed raibition, the shield to be won three times in suecession or five timesinion onsecutively, betore becoming the property of the winner. The shileld was on in A clean, Arcoia, Bask. No Dominton Wxhibition has been held since.
When war was dechared Captain Wataso volunteered for service at the
ont, and gave his life for his country on April alst, 1915. Realixing the great tue of the ahfeld fin advancting the interests of the Clydeadale Horse, The


## WHO CAN KILL WAR

$\mathrm{S}^{\mathrm{CIENCE}} \mathrm{e}$ eannot kIII war, for science has not the new heart, and whets the $S$ sword to a aharpar edge commerce cannot kitil wat, for cort, and whets the cannot kili war, for progresa has no heart at all, and progrens In wrong dirogetios
 and human nature when aroused sowns withe wied round the arms of humanity,
atites of Gaza. Education cannot end war, and asunder and carries off the gates of Gaza. Education eannot end war, and " by eduration carries off the
itharpering of the menternet, the drawthg out of the powers of the mind the mastering of formulas and laws and dates and the powers of the mind, the men to bec
end wart
ch one numbers has three hist the seor Each one numbers hts vtectime by the tens of mililions. Commerce killed famine: ulde of the road along which humanity has marched wp to the prase by the
 Theses foes of mainkind lie bleeding and haif death by bithe selence did the work.
which the world presses on to a hlaher day. Who Which the world presses on to a higher day. Who will kin wart Not commerse nsilion alione creates the new heart. Without renligion wellgion care without wope for Whar is Teaching., ${ }^{\text {phe }}$.
ydendale Horse Association of Canada entered into negotiations with the seutors of the Eatate, thus securing control of the shteld, which will be held perpetuily by the Association. It will be competed for at annual exhibitions the possession of the winner at any time, but a minialu itself shall not be le winner, which will become his absolute property. The will be given to on exbibition at fairs when competed for. Under this new arrangement o dateld will be competed for for the first time at the Canadian National
thinition, Toronto, 1918.
It is a magnificent piece of the silversmith's art. It is three feet deep
two and one-half feet wide, and is of solld silver. two and one-half feet wide, and is of solid siliver. The general deesign is teristic scenes in the home land of the Coydesingle photograph shows, char fuld not be duplicated to-day at less than $\$ 1,000$. A leading silverware manu-

Cacturing coneern in Taronto places its value at $\$ 1,500$. The miniature to be size of the original shield, mate and the be a prize that any Clydeadale eathitor will and valued at $\$ 25$. It will



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otimes tho explent that practically evor Holutein-WFilesian Herd Book in 1891, we



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 yeriors of any amitraid pold to go to the

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 to dirfersoces roesarilis memberstion and
 and $\$ 10$ for females.
D. On July 2tind, on invitation of Hon. D.
 attended the meeting of the Boardo of Di-
recors of tho American Acocintion at
Detrolt. Wo met with a very condial re. eeption and hed no airiculty in arriv-
tigg at on understanding. President Attiken took the ground that the mem. charged in eash country should bo loft to the judgment of the members of the
Association concerned, anid that any dith party between those charged would be
nulined by requirng thet in future ail animala born in Canade showid be regio-
tereal frot in the Canadian Herd Book
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moeitared inst in the American Herd raciatored irat in tho American Hern
Book befors being eligsise to resiatry in tho Casadian Herd Book
This position was entrely matiefactory
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DESIRABL

## BTANDARD CATTLE AND HO

$\qquad$ A Food deal of interest is being nhom meat of the Department of our hant hiven
Cannection with "Standard Dairy
Cattle' end Hog Fieeds for Ontario furt ers," whitch the Ontario Deper the Orsmization of Resources $C$
 Operation and Market, Branch,
Department of Agriculture, Toron

## A a meeting of the Board of Directen of he Unied statea Ayrsime ers Associatlon, held at Minhas.  retary and Treasirer of the Aym Breeders' Association as successor to late C. M. Winalow. Mr. Watson is a scotchman by birth He is an Eraduate of the Iowa state Cd; lege of Aerieutture and was <br> ye <br> arer Kkna he ha Exien <br> xtension A.

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exp HE successful business man, advertising results in or two, classes, name fily ly, direct and Indirect. He also prespry
his copy with a view to meeting the 4 ,
mands of each of these two obiectum mands of
The whole campalion works for a delt,
able fammiliarty on the part of posilis
buyera with the this renders quick sativertisectory name sales enfort to one class of advertising at that success which would, beannot if expect the paign. In business life these two classes of
advertising are known as sale advertio
ing, and publicity advertising No Ing, and publicity advertising. No ofin
can make satisfactory sales uniess the amociations are fortunate in and Ereat credut is due to thene gentleWhich has now been arrived al are ar-
Secretary floughton and myself are arranging to harmonize oflle free of charge tor asech other, progeny rocords of breed-
to eng females sold from one country to the
ing other and minor detaH
A. Clemons, Secreary.

## NEIDPATH FARM HERD SIRE

 to inmpect the Neldpath herd of Ayrshlres
recently. The bull in question is a tworecently. The bull in question is a two-
year-oid, a gon of Toora Dalny Bell 3 rd a cow owned by the Ontario Agrioultural
Coliege and imported from Scotind by
R. R. Nes. She has a two-year-old reR. R. Nees. She has a two-year-old re-
eord in Ro.P. of over 12.000 bos. of mlik.
The beocking of this buit on both sides
Then is of the best producins itrains of the
breed. As individual he carries lots of size, aplendid evidences of constitu-
tion, an well as the straight Ilnes which
are no pleasing to the Ayrahire fancier. Eon, no pleasing to the Ayrahire fancier.
are
Neidpath Farm has probably bred more sires of Record of Performance produc
ers than any other Ayshifre herd in Can
ada. The cows are of the type that adi. The cows are of the type that go
witi production. They are good sized
animains with large shapely udders, and animais wion large shapely uaders, and
in the whole herd there is only one milk-
ing anlmal that could have been eritieired for manall teats; and even in this
case the teats were not extreme. Un. mpossible for the Ballantynes to follow
mp nemi-cfficlat teat work as they would Up gemi-oftic ave, will make sales if they cont cheir attention wholly to publicity,
Consequently an ad. in which an
known man merely states:-:" have
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tention
But
But if combined in the ad. or for wue
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id, there had been appearing a publichty
campalgn, the buying public would be compaign, the buying public would br
the alert for anything which he might have to offer
the average breedier believes advertining in the inf
ing ads., but falls to see ine fog ads., but falls to see the neceuly
for the peneral publicity campaign. Th
average breeder, providing verape breeder, providing he has. not

comes on. They fal to realize that by
human race are apt to soon forget, ail
that their memory must be kept bruit. ed up.
Take paign of any large company and
what a targe percentage of their avien
tising is taken up with this publicity su
vertising. Call it hot air, if you lim vertising. Call it hot air, if you lik
but at any rate it mets the stony hoint
of the buying publlic, and see what cons
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devoted to actually trying to seil tomet This shows the importance of in ormer clase of advertising. But
averape llvestock breeder does not
net things that way. Some of them and they are the ones whe sary sales when they wan
If io oo counteract this t

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## MARKET REVIFW AND FORECAST




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The wheat market has peen in a state
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The matter is now under adyisoment at





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Ontario wheat-No. 2, s3.33, in atore,
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Wee excellent weather of the past


 atat have been supptying practicaily all
oo domind Price follow

Ryo No. 2, 11.99 . si .80 to s1.32.
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Montros vuotai onta C. W. Na . 2 , it: , MILL FEEDS.
The tone of the market for all unes of
mill timed tinguiry for suppleis, with a con-
 yifiveed-Carlots, dellivered. Montroal
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There were no now dovelopments in the


potatoes and eeans.
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 HIDES AND WOOL

Shipments from tho POLTRY
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aituation is thme arrives for moving fiall when the is underntood the proat that wul bo atbo the on eges going to Grast Britain wil Hood Board an provided to the Canaice export tienso will bo required from the going for export
Tho wholesale egr prioes to the trade
 Hens, 4 lb Hens, $\frac{1}{4}$ lbe .....
Hpring ond ohlckens.: Roogtars
Duckilines

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wrek trembined buttor during the past
 at tho to 460 por ib. At Montreal sollde mand for souall cheese for donseal the de-


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 bonid, curt Juhy ni. None oftered on
 orfered; all aoke at arye. sold at anke. Aus. $1,-76$ offered; all son Brockivtile, Aus. 1.-2, 095 white and 800 Aul moda at ank. $23.2,2,68$ boxes of white.

 LIVE STOCK.
The feuluren of the ilive atock market in boge and hanbion, ify wha the siveriee
 that has been thought in some quartera the consumpotea of pork wound hes vended to weaken the price. but an adoalat to tower prive.
Quotations.
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| leas | 18.75 |
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| 18.90 |  |
| an on ligtit to thin |  | stags: leas 50 c to $\$ 1$ on heavies.

HOLSTEIN MEN ON TOUR $A$ Bour thirty mombers of the Holinteln round Woa-the-dakice vistited the country cound Woodstock last weak for the pur-
pose of acoling the phicen whers Botar
asttle are oustle are ralsed and keop.. They were entoortsd by $G$. R. Green, District Repre. ture, Further particulara of thariculwill ugpear in a later ismue of Farm and

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