## ( <br> FARNLNDAIPY




## Feeding the Soil

Fertile Fields Use Labor to Advantage. Page 3.
Docking and Castrating the Lambs
Why Necensary and How Performed. Page 4.

## Big Crops of Potatoes

C. A. Williams Gette 400 Bus. per Acre. Pago 4.

The New President
The Interesting Story of R. W. E. Burnaby. Page 5.

## Keeps Cows Healthier and Increases the Milk Flow

## Diagrams Explain Sharples Supre nacy


(i) suction drawe the milk from the udder of the cow. Thin principle is employed by every mechanical milker on the market as well as by the calf when suclang from ftis mother.
(2) Suction is shut off. Atmoopheric presmure Inslde ntrd euteide teat, consequently NO SQUEEEE or masage cap result. This is as far as other milkers go, because Sharplen basic patents control use of compressed air.
(3) COMPRESSED AIR gives the "Upward Squeose" which massagen the teats and thuylseope tham in periset healh This aetion alee Insurge
faster millidng and thus foster milliting and thua, ineranes the milk fow.
Found oNL $Y$ in the Fhamples Mutker. Experience has shown that a milker cannot be truly efficient without the compressed air line-an exclusive, patented Sharples feature. This scientific principle is

# responsible for the great success of the <br> SHARPLES MILTEER 

THE ONLY MILKER WITH POSITIVE SQUEEZE

You can readily understand that drawing the milk from the udder down thru the teat also draws blood from the veins of the udder down into the smaller veins of the teat. To keep the teats in a natural, healthy condition, and to avoid congestion, this blood must be continually massaged back from the teat. That is the important function of the Sharples "Upwand Squeeze."
As a direct result of using compressed gir, Sharples is the world's fastest milker. Official tests prove this; ask for Bulletin. Fast milking increases the milk flow, That is why the Sharples Milker, with its healthful massage and faster milling, maloes every cow more valuable. With a 3 -unit Sharples outfit one man can easily milk 30 cows an hour, get more milk and in onefifth to ono half less time than with any other machine. In dirity use on half a million cows.

## Witeo for catalos todeg; addressing Dept. 77, nearest brasch office-Or call and soe the Sharples doaler near you.

The Sharple Separator Company

## A Simple Explanation of the Disease and 1 Prol. D. H. Jones, B.S.A.

THe tuberculin tent of cavle is for the purpose of determiniag
whether or not an anims is sufwhether or not an anims in sutwhen properls employed, while not ab; solutely infailible, has shown itwelf to be relisble in ninety eight per cent. of cases in many thousands of tests in Eyrope, the Uaited states, Canada and means of determining whecher or not an animal is tubercular; unless the anlmal is very far gone with the disease of has only very recently become infected.
Tuberculin is a brown-colored liquid obtained by growing Bacillus tubercutosis in specially prepared beet broth. After the bacilli have grown in the broth for a sufficient length of time, they are killed by the application of heat. The broth is then filered and condensed and a presarvative is added. The produce so obtained is tuberculin. This tubercuhin has to be tested and
astabliahed in a proper strength beestabliahed
fore being
Application of
Application of the Tuberculin Test. In ordar to tell whether or not the ing an injection of tuberculin, it is ing an injection of tubercuin, it is is the normal temperature of the anlmal. In doins this, it is necessary to have the cattle quiet in their stalle. If the cattle are feverish from ony cause or have just calved or are just about to calve, the test ahould not be made. The temperature is taken by inserting a elinical thermometer in the anus or rutra, allowing it to stay there for two or three minutes, and then taking the reading. At least thide temperatures of each cow should be taken at intervalis of two hours before injecting the tuberculin.
The tuberculin is then injected beneath the loose skin near the shoulder by means of a bypodermic syringe. After about alght or nine hours from the time of injection, it is necegsary to begin taking temperatures again. These should be taken about gix times
at intervala of two hours. If the anlmal is tubercular there will be a mal is tubercuiar there will in a
gradual rise of temperative of from tso to dive degrees above the hishest temperature resched before the tuber-
culin, was injected, then the temperaculin, was injected, then the iempera-
ture will gradually fall again to norture will gradually fail again to nor-
mal. If the animat fir not tiltoyrular, mal. if the animal ir not tubtorcuian: jection of the tuberculin will be ap. proximately the same as those reproximately the same injection. The tuberculis has no effect, elther good or
bad, on cattle that are not tuhercular: Reasons for Making the Test.
Tuberculonis is a diseane that is iries. It is common in cattle, swine birds and human beings. The disease is usuatly alow in developing, so that an animal may be infected for montha or even years before showing any marked symptoms of the disease.
There are thrae recognized strains
of tubercle baclli: the Bovine affect. of tubercle bacilil: the Bovine, affect ins most readily cattle and swine; the Avian, affecting most readily birds. particularly domestic popitry, ant the Human, affeeting most readily human beings.
If was thought at one tima that the bovine strsin of the tubercla bacilius could not establish tuberculosis in hu man beings, and that the human strain could not affect cattle, and that the avian strain could not affect either dcmonstrited, however, that the bovirie dcmonstrita, the difease in human beings, partiet larly in the case of infants whose dlet of course, is mainly millk. It has been of course, is mainly muik, it has been of tuberculosis in chidren is due to inof tuberculosis in chidren is cuet ob-
fection from milh that has beets obfeetion from milk chat has been one tained trom tobercuar cotie. teate tested reason, then, for having catie tested
for tuberculosis is that we may prefor tuberculosis in that we may pre dread digense that causes so mueh Aread digense that caused own or city that wishes to control its mile supply so far as tuberculosis is concerned.
can demand that those who supply it with milk ahall have their cattle tested under government supervision and all tubercular animals exctuded ?romi the herds from which the milk is obtained. Any town or city wishing s9 to do should state the caso
Veterinary-General at Ottawa.
Financial Loss in the Farmer.
Another reason "chy armers should
have their cattle fested is the financial have their vattie fested is the financial loss which the, fufter hy having tuber cular animals in their herds, disease is at first stow in development and does not induce sudden death, like anthras, black leg, or hog cholers, the
farmer does not realize the loss that farmer does not realize the loss that
he endures by having tuberculosis it he endures herd until one or thore anlmals de velop the disease in an advance velop the disease in an advance
gree and die or are slaughtered, gree and die or are slaughtered, when
they are at once seen to be rotten with the disease.

When the tubercle bacilli get lodged in the animal's body from contamin ated food, water or atmosphere, they begin to multiply and produce a poison which acts locglly, killing the tissue where they are located ani the development of tubercles. tubereles may develop in any pat of the body where the bacilli get located. When they develop lungs, the lungs are gradually destroy ed, the animal gets a chronie cough fad large numbers of the bacilli an soughci up into the mouth and ar swallowed and then either passed out swallowed and then either passed out woth the droppings or thas in up ther infeetion in the intestines, When there is cubercuiosis of the is ileely to be affected wit chronile scouring, and so large num chroaid scouring, and so targe num bers of the bacilit are thus throwis oif the udder, the udder will become the udder, the uderbers of tulerde bacilii will be given off in the mills When the discase has developed to fuch an extent in dhe salmel's body as to show any of the foregoing cond tions, other parts of the body such as the heart, liver, stomach lympl flands, uterus and peritoneum are tnost likely affected, and by this time the animal is very much of a Josing concern, ether as a producer of milk or beef. But the loss to the farmar is hot necessarily contined to this athmal. For, long before tre reached this extent, the smmal has been a suource of infection for the reit of the herd, and in all probahility a
number of the lierd have contructed number of the lerd
the dinfase from it.
the dimase from it,
Eradicating the
Eradicating the Diacal
The tuberculin test will Whother or not an animal is Izlrimulat long before any cinical symptous are
visible, thus enabilng one to deal with visible, thus enabings on an anima! before
such an animal becore
damgerous spreader of the
dangerous npreader of the
When an aulmal is shou
When an animal is shown to be
tubercular, it should not be ellowaito tubercular, it should not be ellowad to disease is in an advanced stage the disease is in an advanced stage the internal organs of such an animal my be badly tubercular, but meat mearcely affected, so that the value of the animal, so far as hoicker
meat is concernest, could be recovered. meat is concernext, could be recovereh. If the disease ls not in an advased stage the animal should be sepanied
from the rest of the herd and liept from the rest of the herd be paiteur
separate. Its milk should be separate. Its milk shouid
ixed lefore time. After the cow celves ixed before are. After the cow calut
the ealf should be at once momoned and fed mill from healthy cows, or is and fed milk from heainy conk, or is tion.
It has been demonstrated again and again to be positble this to gradp: illy erliflcate tuberculosis from a herd. Ot course, it means a little mont work and the exerclae of care, whid may seem to be too minch bother io home farmers. But we caanot is tmuch good in this world withoit ? reasonable amount of effort belay pis forth, and to have a herd of cottle which are known to be free from ruberoulosis is most certamly wona disease.

N$\left[\begin{array}{l}0 \text { one appre } \\ \text { farmer the } \\ \text { ation for }\end{array}\right.$ ation, for or fith the labor sit Implements sirust
the way of "norm tion. And while
tion generally are tall generally are
in their efforts to we farmers are g! he best use of Wi in keeping
In studying out ccurrad to me th he labor at hand and, but rather,
ultivate to advin acre of ground wor point past whic torce ylelds; but Ontarlo which cou duce larger crops ertiliser, whether the commercial this connection andeavor to focind or adeavor to and ou trikes me thast ound of interest lound of interest duction oft his farn One of the plans land Which has al the "Ilifinois way" anure to the soll. mace in font or fis acla solls, previou sbout two tons per about iwo
plement the manary manure with rock fertilitier, the amon of manure used. the appification sh phosphate every for
The essentlat foo to be lacking fa sol wh end catcium. constituent of plant the yield of erops, heavily by growiny heavily by growing does not become dep sen in the soil is ol or alfalfa. It ts sin or aifala. ol is sil
tress and from puet Phopphnte fertilize sraln erops. They or plowed under wit fing of graln crops. ing of grain crops,
of manure favers of manure fivors
lood results are il when applied alone. trveys have been found mont deffelent
made by treating the acde. This makes avallable for plent the price of mulphuri has rasde thls foris expensive.
to presence in a
ite presenca in a so
the neceseary atreng


## Feeding the Soil That Feeds the World

## We Can Make Our Labor More Effective by Keeping Our Fields Fertile-By "Oxford

$\mathrm{N}^{0}$ one apprectatea more fully than does the furmer the serfousness of the world's food attuation, for on one else is so closely in tonch Ith the labor situation, the seed situation, the farm implements situation and all the other obstacles in the way of "normal", let slone "Increased" production. And while the elty press and governments senerally are talking themselves bleelr in the fftce in their efforts to urge un on to greater production, ve farmers are quietly studying how we may make the best use of what labor we can get on our tarms in keeping up as nearly as possible to our normal In keeping
In studying out a plan for my own tarm, it han occurrnd to me that the best-way for me to utilize hend, but rather, by fertilisine the acres that more land, but rather, by tertilising the acres that I can culivate 10 advantage, to reap a bigger yleld per acre of ground worked, Of course there is doubtless apoint past which it does not pay the farmer to toree ylelds; but I think there are few farms in Ontario which could not proftably be made to pro-
dace larger crops per acre by the judlelons use of dace larger crops per acre by the fudlelons use of
fertiliser, whether barnyard manure, greet manure fertiliser, whether barnyard m
I have been looking up for my own information in this connection some experimental results in an endeavor to find out what type of ferthtsers I might most proftably employ on my own acren, and it toine me that periape a digeal of what I have found of interest might also be of value to some fellow farmer, who aiso is out for mavimam pro duction of his farm, through the use of fertilizers. One of the plans for keoping up the fertility of land which has appealed most sirongly to me is the "Illinois way" which comprises the following: . Dee legume crope in rotation and reforn the manure to the sofl, or plow under for sreen manure osce in four or five years. 2. Apply limestone to acld solls, previous to seeding, legrames, usually about two tons per acre, once in four years. 3. Sup plement the manure for legume cropa used an sreen manure with rock phosplate or other phosphate fertilifer, the amount depentiog upon the quantity of manare used. Where graln erops are removed, the application should be about $\mathbf{1 , 0 0 0} \mathrm{lbs}$. rock
phosphate every fourth plosphate every fourth year.

Essential Plant Food.
The essential foods for plants which are liable to be lacking in sofls are nitrogen, phosphorus, potahb and calcium. Nitrogen is the moot important constituent of plant food, not only in its relation to the rield of orops, but siso in the feeding ralue of these crops for antmals. This element is used heavily by growing crops and precautions must be tates to see that the supply of nitrogen in the soll does not become depleted. The chlef souree of nitregen in the soil is obtafned through growing clovers or alfalfa. It is also supplied from torgyard manares and from Bueh fertilisers as nitrate of soda Phosphate fertilizers are particularly beneficlal to sraln crops. They may be spplted to young ciover or plowed under with manure, previons to the growfing of grain crops. The acld produced in the decay of manure favors the solution of phoaphate rock. Good resnlte are not secured from this fertilizer then applied alone. In many sectlons where sell farveys have been carried on, this eloment has been uade by treatiog the roold phoaphate is a fertilizer acld. This makes the phosphorus more autekie aratlable for plant food. This gras increase in the price of sulphurie acid this Inat couple of years has made this form of phosphate fertilizer very xpensire
Folanh is easential for the beat growth of piants. bis necence in a soll wifl give the stems of sraf ine neceseary sirength to prevent lodging. Potseb
is abundant in normal solls, but is usually in an it. In the presence of that plants are unable to use inatter, the insoluble potash and decaying organic ually dissolved and the potash compounds are gradually dissolved and the potash is made avallatle for
plants, Legumes, manure and lime in a soll pianis, logumes, manure and lime in a soil will This lement is practically unobtainable in the shape This iement is practically unobtainable in the shape galts that were formerly us present. The potash
us fertilizer came fargely from Germany. This supply, of course, is fargely from Germany. This supply, of course, is

Where Methods of Increasing Fertility,
Where grain crops are grown and sold off the farm the soll will become depleted of those elements mecessary for profitable crops unless some arrangements are made for their return. The essential plant food elements may be applied to the soll in one of three ways, by the application of live stock man. ure, through the growigg of legume crops and green manures, and by the uise of chemical fertilizer. Of these three plans, cholce shonld be made in the order given.
Live stock manure is the chenjest and most popular fertiliser used on the farm. It is -the most important single source of fertilizep for the moil in is auperlor to other fertilizers because of Its greater and more lasting beneffts. Manure fo one of the most efficlent means at the disposal- of the farmer to permanently improve his soll. No other fert liser poasesses to so great a degree, the power of

## The Wonderful Earth

IF and fortilused it ond his land and ploved is
 rod of it the knowe thow mond to love evers
 It is to Nhe whetrer harneterlatios of an per It to nito that he conit to know his horree It it an the and hens,




 the ruin in a corp feld, atter weenk of droarhti crows throwing tut oupt of gray akies, ite arst thement yor the doy eral Thate and loong


 the taseabe ind halveyouns and howive if







 year to pioks the berrien. How could they be
other mine than full of asioclations. They bear
i fruis more to

restoring worn soll to productin Legumes and Green Manurs. to the soll is that obt ined throuppiy of nitrogen clovers or other legumed through the growing of in that on their rogumea. These plants are peculiar whiteh have the roots live little colonies of becterfs afr into nitintes, as food. Theses, which may be used by the plants of nood. These plants not only supplv a great deal of nitrogen from the roots and stubble left after crop is taken off, but much of the altroget con the land in thertion harvested will be returned to Some farmars form of manure,
ure in order to keep up the supply of ter green mansoli. Thls ts usually the supply of humus in the supply of fertility than manure. li is ical source of suppiy of fertility than manure. It is unually much more profitable to feed the crops and return the the beat parts of the fleld produce the hearing is that for turning under. Thrs produce the heavient crops for turning under. Thrs the portions of the field that are th the moat, $r$ yd of this manure get the
least. Panturing off F , eld of clover hefore nlowin feast. Pasturing off f reld of clover before plowing fs usually the most economical method of adding fer-
tility to the soil. All the rots and ool tility to the soil. All the roots and some of the tops are left for plowing under and 40 to 50 nep cent of the portion eaten If returned to the lend cent higher the nrice of feet the more a farmer loses the plowing under sreen manure. In elther manuring or plowing unter sreen manures, humus is ading to the soll. The is one mhhatance whinh cannot be added by commercial fertilisers. Hymus cannot be their dark color and makes them warmer becaus more heat will be absorhed bv a dark colored soll.

Commerelal Fertilizers.
Inless properly used in comblination with manure and legume crops, chemical fertilizers with manure usually but temporary in thelr effe'ts. Where the crops are grown and hanled off thin farm the soils becoms are
pleted. Complete fertilitejs are pleted. Complete fertilitels are very offent bought and apniled to such solls 4 bring them back to normal. Usually the mineral elements will not be found equally deffcient, and it mav be necessary to annly only nne or two mineral foods along with the nitroren added bv the legame rotatfor. Phosplorus ant lime are most likely to be needed on the average soll.
the tound Hmestone is belig largely anolled to solis limestons fears. The increase in the amount of Hestre of used has doubliess been due to the inclovers or alfalfa will not do well foen found that Lime therefore, in applied to soch in an acid sofl. teaded for legumes, Llme fir not solly as are insweetenine the soll, bot also in improvins ite in eal conffition. it fs bell also in improving its phvalin that it causes the particles to flocculato ciay solls it makes the elay mare priablo flocculato, that is, "puddle" in tía working. Ground IImentonn likely to applied in the mannure, but guick lime should ney be be mincoft with manure, since it ime should never composition of the organte mattor and a lose of compositi
nftroken.
So much for the knowledge-now for the applicacrops are high in going to do about it? Grain crops are high in price, the demand for farm proparalleled opportanity to wo have therefore an unparalieied opportunity to nof only increase our farm all causes, the feoding out in the most humsne of incresse, or even maintar aumery world, if we can farm. It would be well the production from our trte thoubt to the we are coltivnting Are of fertility of the acrea they should? If not, Are they growing an much as sary shouid? If not, they should be given the necesary ses of tetoer at it make them produce. With the orice of labor as it is, we have no place for a "elackor ${ }^{2 \prime \prime}$ acre in our cultivated ares

## Docking and Castrating the Lambs

The Neglect of These Means Money Lost

## A. A. MacMillan, Macdonald College, Que.

UNDOCKED and uncastrated grate lambs are
always an indication of primitive metho always an indication of primitive methods in
the handitis of sheep, and no farmer who takes an interest in his flock will neglect the pop formance of these operations. Both are very simple
and if properly performed at the right ags there is and ittie or no danger or loss. Moreover, docking addit to the neatness, comtort and appearance of the fiock, whine castrating enables wether lambs for late fall sales when a hieavier weight usually brings a higher average pried ope pound. Ram lambs become troublesome about the middle of September, thelr galns are slower, taey sold, and thelr value per pound is below that of ewe or wether lambs.
Docking and castrating should both be performed when the lambs are ten days or two weeks of age. Lambs under ten days of age are likely to be weak,
while those over two weeks have greater develop: while those over two weeks have greater develop.
ment of the organs and their removal is more of a ment of the organs and their removal is more of a
shock to the system. It would be easier on the shock to the system. It would be easier on the
lambs to allow a few days to lapse between each operation. However, the farmer is usually rushed With work and a saving of time is effected it both
are pertormed at once, and moreover. If the lambs are pertormed at once, and moreover, if the lambs
are of the proper age, no serious results are likely are of the proper age, no serious result are
to follow. When a few days are allowed to elapae betwean each operation, castrating is best performed between each operation, castrating is best perpormed irst, as the wound heals more quickiy, bleeds fens
and is better fected. not belng so lable to Injury
when catec when catch or docking. An assistant is necos
sary for carrating, and although he may be dif pansed with for docking, his services are useful and result in a neater and more uniform doek, a good
sharp knife and a basin of water to which some sharp knife and a basin of water to which some
disinfectant has been added is all the equlpment that is required for the work. The operation ts best
performed in the morning of a bright elear day.

## Castrating.

The lamb is held by the attendant at the proper height with the underside of the body outward, rump downward and the front and hind legs held togethor.
The scrotum is grasped with the left hand of the operator and pulled outward to Its full lengith when it is severed straight across about one inch from the body, removing one-third to one-half. The testiclea
will now protrude and may be removed by the teeth will now protrude and may be removed by the tecth
of the operator or with small plincheri speclally of the operator or with small pinchers specially
made for the purpose or by sliting the perltoneal made for the purpose or ly sultung the tasticle with the finger until the cord breaks. The first method is most commonly practised in all large sheep rals. ing countries. It is quicker and is seldom followed ers having claws that fit around the testicle is very similar to the first method except that the plachers are subsitituted for the teeth. There is more danger which show any tendency towards rupture should not be castrated by efther of the above methoda
as the removal of the peritoneal 1 inlng allown the as the removal of the peritoneal lining allows the intestines to protrude. The last method, namely,
slitting the peritoneal lining with the knilfe and slitting the peritoneal lining witha the knime and
pulling the testcle free is commonly practised with mall flocks. Care must be taken that the testicte is not crushed, otherwise the lamb will display male characteristics and will be troublesome in the fail.
The peritoneal covering should be stitched in lamhs The peritoneal covering should be stitched in lamhs
that show any signs of rupture. In all three methoda that show any signs of rupture. In all three methodi it is highly important that the lower part of the scrotum te removed and it does not heal too qutckity. Ine for the wound and testlces be removed throush a small silt in the side of the serotum leaving a pocket at the bottom in which the blood can aceumulate, causing the wound to fester. If festering does occur the wound should be opened atnormal testicles should not be operated upon untll they
become normal. otherwise there is much greater become normal, otherwise there is much greater risk and danger of loss.
The lamb is held in the same manner for docking as for castrating. A stub of one and a balf to two inches in length should be left. If severed at the second folnt from the body the desired length is usually obtained. The foints may be felt with the thumb of the left hand, the knife belng placed directly over the second foint when with one downward stroke the tall is severed from the body. When one man is docking alone the lamb is allowed to stand on Its feet with Its head between the legs of the operator when the tafl is severed with one stroke from below upwaras. The pracuce of seved ing the tail with a chisel is not to be recommenaed as the bone is very often spintered leavin
ful wound that takes a long white to heal
f dooked at the right age. However, occasionally a lamb will bleed to death it not looked after. The application of pressure just over the artery for a few moments will sometimes coagulate the blood. Tineture of Iron is also used, hut falling this a small cord may be tied around the stub and left for twelve or twenty-four hours when it shoutd be removed,
otherwise circulation is stopped and the part sloughs otherwise circulation is stopred and the part sloughs
off. Cobwebs, puff balls, flour, etc., have been used off. Cobwebs, puff balls, flour, etc., have been used whitie effective in so far as stopping the bleeding fs concerned, subject the lamb to danger from infecconcerned, subject the lamb to danger from more
tlon. The docking of older sheep is a much mone serious matter than with lambs. A large, sharp hevife is the west instrument to use, the tail being The most effective method of stopping the bleeding is to sear the artery with a red hot iron. Searing is recommended by some authorities for lambs, but Its use fis seldom necessary and the lamb is saved much pala. The docking shears are more costly, less practisable and have no spectal advantage over the use of the knife.
After operating, the flock should be turned into
dry pasture fleld where they can be watched


## Prof. Wade Toole. <br> $5=$

during the day and any necessary attention given. There is seldom any danger after the first day, although it is advisable to watch the flock closely untll the wounds are healed. Neither of the above operations bhould be performed in warm weather whenin
certain to get into the wounds.
The Importance of docking and castrating cannot be over emphasized. Both tend toward the prowith good practice in the management of the farm flock.

## A Fertilizer Experience <br> A Story From a Quebec Farm <br> Elizabeth Harris, shefford Co., Que.

WE have used commerclal fertilizers for'seven consecutive years, supplemented with barn-
yard manures rnd we have ralsed some yard manures cnd we have ralsed some bumper" crops of corn, wheat, oats, turnips, carrots, ant hame seasons the bugs work overtime; how but some seasons the bugs work overtime; howof land. The next spring this land was not plowet. fuat diaked with a cutaway disk harrow, and coinmercial fertilizer appli $-d$, disked again and seeded down to elover and timothy with nurse crop of down to clover and timothy with nurae crop of
wheat, and we won Irat prize on wheat from the agricultural soclety.
Here is a list of the fertilizers used:-Albert's basie slag, acid phosphate, nitrate of soda, muriate of potanh and high grade sulphate of potash. These enough to the ns over another year, nitrate of have excented 0 a slag and muriate at the rate of 500 lbs , and 200 lbs .4
respectiyny, per acre. The suipliate was applied mostly bo the drill to the potatoes and sugar beete. Nitrate of soda has been used sparingly with
fust enough to give the crop a good start.
It is well to bear in mind, when sowing the smaller grains, which make their growth in the cool spring weather, that a little avallable nitrogen applied at time of plainting will keep the plants growing and keeg down the weeds. Much, however, depends
upon the quality of seeds used, the time of planting upon the quality of seeds used, the time of planting, he fencing of the seed bed for the small gralna, just at the right time, to insure a maximum yleid

## General Principles.

Solla rary so in manurial requirements that it is difficul to find a fertilizer sulted to all soils and crope. The farmer fhould study the nature and conditions of his solls, and the special needs of his crops before deciding what kind of commercia fertilizer to use.
Home-made mixtures will supply plant food at a lower cost than the so-called special brands. The elements deficient in most solls are nitrogen, phosphoric acid and potash. Therefore, in mixing a fertilizer, all three elements should be included ac cording to the needs of the special crops. For instance grasses and all kinds of cereal grains require
more nitrogen than phosphoric acid and potash. more nitrogen than phosphoric acid and potash.
The cabbage famfly should have phomphoric acld as The cabbage famify should have phorphoric acid as
the most dominant element, and potatoes, corn and the most dominant element, and potatoes, corn and
legumes should have potash predominating. This legumes should have potash predominating. This
calls for some deep thinking, as economy requirea that we apply only what is needed for the specta! that
crop.
No set rules can be lald down to follow if the tarmer hopes for highest success. Here in Quebec the seasons are all too short for the maturing of
certain crops; however, there is one thing we do not have to worry about, and that is a cover crop; not have to worry about, and that is a cover crop;
for the blanket of snow comes early and stays late.

## Big Crops of Potatoes

G. A. Williams Gets $\mathrm{Over}^{2} 400$ Bushels Per Acre

0

 and on this little plantation he has been growing potatoes on a commercial scale, along with other garden crops, for 15 years. For the past three years Brunswick seed and his results have been so good Brunswick seed and his resuits have been 80 good that recently he dropped into Farm and Dairy office at our request to tell us about it, "I irst used New
Brunswick seed three years ago," said Mr. Williams. "That year I planted with some of my own seed to use both kinds side by slde ever since. The firat year the New Branswick seed yielded fily ${ }^{5} 5$ per cent. more crop than the seed of my own grow. ing. The following year I planted a large aree With New Brunswick seed, but also put in a considerable acreage of my own seed, grown from New Brunswick seed the year before. I found that the New Brunswlek seed In the second year was no better than the old stock ralsed for years in Ontario and my conclusion is that it will pay to sell all potatoes grown and buy New Brunswick or New the difference In yleld between the New Bruswice. the diference in ylela between 187 thehels per acro" "Why, that grown seed was 137 bushels per acre" "Not with us," replied Mr. Williams, "We couldol live on our small place unless we grew greater crops than that. This last year we had a plece of ground 300 by 42 feet in which we planted five bags of New Brunswlek seed, Irish Cobbler varlety. The yield was at the rate of 485 bushels to the acre and even then there were some misses In the stand as a part of the seed had rotted, due to the wit weather. The soll on which this crop was grown was pure black mifick. The vines never maturel oo I belleve that the crop grown on thls soll wili make good seed for the coming year.

> 4871/2 Bushels Per Acre.
"On our farm we ha c also sandy soll. On thls soll I planted five bags of New Brunswick potatoes on a strip 14 rods long and 60 feet wide. The yield was at the rate of $4871 / 2$ bushels per acre. We lnow that thls is accurate as the potatoes are gathered in bushel crates. Our mafn crop on the other hand was grown from our own seed and it ylelded at the rate of only 300 bushels to the acre.
All of these are exceptional Flelds. "How do you do it $T^{\prime \prime}$ we asked Mr. Wiliams.
"It is largely a ease of soll fertility," declared he emphatically. "We manture heavily; 20 to 25 good big single horse loads to the acre. Mhis manite is drawn froin a slaughter hovie in Peterboro and quite a bit of ft in plg manure. We have not used
commerclal fertilizer. We use 14 to 15 bags of (Continued on page 15.)

# The Ne 

Whó He
W Nom people as well have bee pretty frequently of late. It is a natural question From a position where
known to comparatively ? known to comparatively
ers, besides those of his o ship, and a nurreer of br Holstein cattle, Mr. R Burnaby, of Jefferson, Ont
the past three months, has the a place where he is of the most prominent me ricultural circles in Canad ple, therefore, are naturail
what are the qualltles wb enabled him to make such advance, who he fs, and wh not he is likely to make og
Mr. Burnaby's firat big fi the provinclal limelight to last December, when the
who are shareholders in th Fhormers' Cooperative Co elected him a difector of pany, and when immediate paay appolnted him, alth dent of the company. by him in February, when dian Holsteln-Frfesian Cat at their annual meeting, el
president of the associatio president of the associatio
talned only after a breed years' experience at least
Who Is Mr. Burnaby farms on
cominty, Highland Lake Fa
pitiess 170 acres. Across th piriees 170 acres. Across th
aby owns another 50 acres. purchased 100 acres near to atl this, he rents 450 a
parturage purposes adjoinin between what he owns anc
770 acres under operation. 70 acres under operation.
Mr . Burnaby is one of noat successful Holsteln br sadvaluce, as a breeder, has
thing he can do, he Iikes to thing he can do, he likes hags in a big way than
mall way. His success wit Woint. When analyzed it
pand. The principles he tand. The principles he
essily to to understood. a
a ability such as Mr. Bu
to make them succeed.
The Highland Lake Her head, of which 30 are in on
breeding and young stock. breeding and young stock,
Holatelns was made only t Holsteing was made why he selected thi
asked whe: "I found," he characteristie: "I found," records for milk and butter,
periods, were held by fiolst periods, were held by foist
fore, that that was the bree
wis ulfed with." Asked further
start, he replled, "I went al star, he replled, I went a
the herds of the best-breed


A general view of

## The New President of the United Farmers' Company

WHO is the man Burnaby? Thid is s question ${ }^{2}$ good
many farmers and other people as well have been asking
pretty frequently of late. pretty frequently of late.
It is a natural question.
From a position where he was known to comparatively few farmerh, bessides those of his own township, and a nurber of breeders of Holstein cattle, Mr. R. W. E. Buraaby, of Jefferson, Ont., within the past three months, has jumped Into a place where he is now one of the most prominent men in agricultural circles in Canada. Pno. pie, therefore, are naturally asting what are him to make such a rapld enabled tim to make such a rapid not he is likely to make good. not he is nkely to make good.
Mr . Burnaby's first big jump the provinctat timatight took place last December, when the farmers who are shareholders in the United Farmers' Cooperative Co., Limited, elected him a director of the company, and when immediately after-
wards the directors of the comwards the directors of the com-
paay appolnted him, although he
paay appointed him, although he had had no previous experience on the board, presldent of the company. A second advance was made by him in February, when the members of the Canadian Holstein-Friesian Cattle Breeders' Association, at thelr annual meeting, elected him as fourth vicepresident of the assoclation, a position usually obtalned only after a breeder has had one or more
raars' experience at least on the board of directors rears' experience at least on the board of directors. Who is He?
Mr. Burnaby farms on a large scale In York county. Highland Lake Farm, his home farm, comprises 170 acres. Across the road from it Mr. Burnaby owns another 50 acres. About a month ago he purchased 100 acres near Elgin Mills. In addition to all this, he rents 450 acres of land, mainly for pasturage purposes adjoining the home tarm. Thus, between what he owns and what he rents, he has 70 acres under operation.
Me . Burnahy is one of
Mr. Burnahy is one of the most extensive and nost successful Holstein breeders in Canada, His adrance, as a breeder, has been phenomenal. Everything he can do, he likes to do In a big way, as he heieves in a big way than doing succeed in doing mings in a big way than doing little things in a point. When analyzed it is not dificult to under stand. The principles he follows are slmple and easily to the understood, although only men with ability such as Mr. Burnaby possesses could hope to make them succeed.
The Highland Lake Herd comprlses about 100 head, of which 30 are in milk and the remainder reeding and young stock. Mr Burnaby's start in Holstelns was made only three years ago. When akked why he selected thls breed, his reply was characterlstie: "I found," he sald, "that all world's ecords for milk and butter, either for short or long periods, were held by folstelns. I decided, thereore, that that was the breed 1 wanted to be idenlifed with." Asked further as to how he got his tart, he replled, "I went all over Ontarlo visiting be herds of the best-breeders. I made it a point


The Type of Stock on Mr. Burnaby's Farm.
la large lierd of Holateln Cattle, Mr. Burnayy has always almed at a
combination of good records and strong eonstitutions.
to plek out the cow that the man who had it didn' want to sell." The year he first started Mr. Burnaby purchased 40 animals, from surted Mr. Burn breeders as L. H. Lipait of Straffordyllle, J. Wnown lace and Mason Bros, of Simcoe, R. F. Hicks of Newtonbrook, Purtelle and Leavens of Bloomfield, and Wellington Sager of St. George,
a "In business," sald Mr. Burnaby, "a man who has a good article never has any difficulty in disposing of it at a fair price. A good article is often cheap at a high price, whereas a poor article may be dear at any price. When I went into Holsteins I decided that this principle would apply to dairy cattle as much as to anything else, and I decided, therefore, I had to pay long prices tood in my herd, even if It would to pay long prices to get It. While I knew it would cost me a good deal to get started in this way, I realized that if I had the right breeding I would be able to obtain sufficiently good prices for my stock to more than offset the expense involved fn obtainfng ing foundatlon herd. As the sire is the sire that headed my herd would mave mind that very best obtainable. My first sire in service was Sir Lyons Hengerveld Segls, son in service was Segin, and Blamehe Eyons De Kot, with a record of 33.31 lbs . of butter in 7 days. He is a record of the sire of Segis Fayne Johanna the world's only
50.68 lb . cow.
"Our next herd sire was King Segis Pontiac Canada, a son of the best proven son of the world's greatest sire, King of the Pontlacs and Pride Hengranddaughter, ${ }^{30.12}$ lbs., a noted show cow and seryice is Ar of King Segis. Our present sire in son of May Echo Sylvontiac Echo (under lease) a milk proftuction and Canadlan record for butter, viz., 41 ths, In seven days. There is only one other 41-
ib. bull in Canada.:

Some Fine Females.
With such herd sires it is not to be wondered at that Mr. Burnaby has sought to. have equally good
show purposes. oth males and femals of heavy producing airahas in wacrificing type and i do not belleve, however, front in my breeding operations keep type to the very animal as it freshens, in order that my cus when they always know what they are getting may reap buy stock, and also int order that they may be derived byent of any additional value that Some time ago records made by related animals. 22 lb cow an we sold a bull and helfer from a was more than within three months thele value over 30 lbs , on their dam our making a record of In his catalogue dam.
Suggestions on breeding that gurnaby gives some terne suggestions on breeding that are worth repeating.
Here are some of them. Temember the sayln
half the herd'-one soor - 'The bull is more than each year and one poor cow means one poor calf "The better bred sire bull means all poor calves and higher priced will be his own the better bred "You can always sell your bull calve
the right kind of sire. your bull calves if you own "Yout do not know how good a bull is if you do not know the official records back of him. them and be satisfled with just pure breds, teat them and be sure your sire is better than your fomales. Grade up not down, but be sure. will probably prove very expansive, not to meap. He will probably prove very expensive, not to mention the years lost in finding it out.
quality IInes. it is quality that counts. Grow along quality lines.
divide the cost and increase and buy a good bull, ing your herds, making ase your profits by improv.

The Farm Buand for your increase." The Farm Buildings.
As will be seen by the accompanying Illustrationa, tive and commodlous in character they are attrae
(Continued on page 8.)


A general view of the buildings on Mr. Burnaby's farm. From left to right we have hired man's house, barns, and Mr. Burnaby's residence.

## Sending Money to Soldiers

Those who have friends or relatives at the
 front, may wish to send money, but possibly do not know the liest way to do so.
If time permits, the safest and most convenient method of making remittances abroad is the Bank Money Order or Draft, as issued by The Merchants Bank.
If, however, it is necessary to send money without delay, the Bank will arrange this by Cable Transfor.

## THE MERCHANTS BANK

Head Office: Montreal OF CYANADA Established 1804,




Deal with Farm and Dairy Advertisers


Feeding the Chicks
By F. E. Ellis.

ARTLPVCIAL incubation is easy; at least we have found it 80 . It Is artificial brooding that calla for the utmost care and it is here that the poultryman registers his heavlest losses. We have never fall
ed to hatch out a good percentage of ed to hatch out a good percentage of chlckans, but during the first season or two when we were getting our experience whth artincial brooding, wo pald dearly for the knowiedge gained. The method that we have found most satiofactory is one recommended by Prof. W. R. Oraham at Guelph. It is a method that calle for care, as the chicks are fed five or alx times a day and every ounce of feed that thay get must be weighed carefully.
The frat day the chicks are in the brooder house they have warm water to drink and shit For the second day aid the reat or lie frat week thoy aro fed six times-at $6.45 \mathrm{s.m},$.9.80 am., 1a.30 am ., and 2 . 4 , and 6.30 fue atternoon. The irst reek tioy ses arias. Two-cups followis proporice cupe rolled oats bread craind holled egres and srit on one cup hand bolled esgs and grit on ond day of this feeding, they are given ond day of this feeding, they are given oneed in the litter to 60 chicks after feed in the . When they cayck cloaned each hoor mash. This amount of feed is fuat about right They will go af is juast about right. They will go at ter the chlek foed so energetically that they will throw the litter a foot or two and there to no surcr itgn that they are being overied taan when they do not take an interest in the chlck foed. This flrat week they get no milk, but the soveral drinking fountains aro alwaye full of clean water.
The
The second and third weaks the chicks have sour milk to drink in addittion to the water. We give them two feeds a day ut the same maan as the first week with the amount suighty increased, but with no chick foed following, two reeds of chick
feet, one and a quarter to one and one-half ounces to 60 ohlickens, and two feedings of a wet mash, compos ed of 100 Jbs . tran, 100 lbs . low grade ed of 100 lbs bran, 100 lbs . lw grade
flour, 100 ms . corn meal, 100 lbs , beet fiour,
scrap and 35
3 bs . of bone meal. Fine scrap and 55 ibs. of bone meal. Fitued
white middings may be subatituted for the low grade flour, which is not now gonerally obtainable. At one feeding, the chicks are given all they will eat and in the third week the chicks are fod the same, except that they get all of the mash they will eat twice a day instead of once.
The fourth week we atart to hopper feed the chickens and they have rolled oats in front of them all the time. These are not the table rolled oats, such as are used in their mashes the first three weeks, but horse oats or bruleed onts. At noon they get a mash erumbly wet of corn meal, roll. ed oats, middalings and beet scrap. equal parts of each, or where skim milk is fed, one-half part of beet scrap will be oufficlant. At night they get chlok feed in the litter, all they will clean up. The fifth week this same systean is followed, but at six weeks and thereafter they are hopper fed, except for a wet mash at noon. It will not be long before they will be nez. lecting the wet mash and from then on they are eutirely hopper fed, with a cholce of rolled oats and a mixtura of cracked corn and wheat. Charcoal. fine grit and fine oystor shell are kept before the chicks at all times from the first week on.
If there is any one polat that is more fimportant than another it is that perfoet elenaliness be preserred
throughout. The litter muat be clean and froe from duat. We havo tould that altalra or clover loaves make sa excelient lutur. The drinking dlabes are washed and scaided regularly and
the sningles on which the ebicks are ted are never loft on the floors longer than it is necessary foz the feed to bo
eaten. if they fave not a run of fresh eaten. If they lave not a run of frosh
green grass, they are given fleely green grass, they are given finely
pulped mangols or sprouted
oata pulped mangols or sprouted oata. ing over the green aods which we cut and throw on the floor of the brooder house. And again let me say-it is
absolute regularity and care in weiga. ing rations that makes for successful feeding of small chicks.

Poultry Facts and Theories By M. K. Boger.
T HWRE used to be a theory, and With some it is still belleved, igeonslzed egg meane that that pati, pigeonsized ags means that that parwill not begin for some time. That will mot begin for some time. That theory has been exploded by the aid
of the trap neet. The records kept of the trap neek. The recorda kept by the writer show that on February
17 Brahma hen No. 27 lide a small, 17 Brahma hen No. 27 laid a small,
pigeonalzed esg: the next day sha pigeonaized essil the next day sha larger than the one of the day be fore. Two days later she lald a regularsined esg, and continued doling so until the 26th of the month. when she laid i doubleyolked egg. Which proved that both the pigeon-slued and double-yolked eggs are the product of hene that are too fat. Thle hen in question was very fat.

Meat in some form must be fed poultry. Fowls on tree range, eapectally in an orohard, gather a vast amount of bugs, worms and insects that furnish them all the moat food required. But vary tow flocks bave the advantage of an orchard raaga and as the majority of flocks are kopt. in confined guarters, the queetion of a meat aupply must be carefully con sidered. The green bene cutter has done much in solving this lmportant question, but an injudictous use of green bone has caused troubles if other ways. It doveloped worms is fowls, and it produced irritablenes In the stock. In young, growiag btock it cansed a too rapld develop. ment of the comb and wattlee. fresh meat diet should be given cail tloushy-not more than an ounoe fo. each hen, and no oftener than every. other day. An ascellent subettuto for green boze is the commerclal. meat sold by poultry eupply houses. Belng thoroughly cooked and dried, It is in a safe condition for feeding, and can be antely fed at the rate of 12 to 15 per cent.

While we belleve in breeding up for heavy records, at the same time wo Would rather have our hens avorige 120 eves a year, and remain in robust heakh, than to have their syitema dralned of vitality in the race to pass the 200 mark. There is a reason in all thlngs. If we are to force our atock ahead to be champlon layen, we are golns to do it at the macrlfice of something elee. What will become oc our moat supply if we are going to put all the forces to work on esge? When we apend our food and attention on the fowl with a vier to creatint an ldeat carcass, do wo not make the egs yleld suffer? Will not this umnatural flow of eggs tend to cripple fertility and make weak, puny elnckas? Why not work for bold eves and meat? Why not have a limit? If we can esradually lacrease the powers of a hen so that she will sverage 300 eggn a year, and still maintain heaith and meat qualifics. tlons, it is advisable to go shash. Bat to build up the one at the el peose of the others will eventually produce a delioate race. We wait the 200 -ang hers it we can get her within retmon.

TRY to trench
nights vousstrain. ing "coal bc You are hi you still car to dressing depressed y that other There are You must

Up comes present big of manly e dressing sta home have He hands yc
"In thous "it was that the man bac

The treme as an aid to of the sold wonder the smash the

## Vast Issues Depend Upon the Welfare of Our Boys

TRY to picture yourseif in the muddy cold trenches after exciting days and long nights of mortal danger and intense nervous strain. Rushing "whiz-bangs" and screaming "coal boxes" are no réspecters of persons. You are hit! But despite shock and pain you still can face the long weary trudge back to dressing station. Weary, overwrought and depressed you are prey to wild imaginings of that other coming ordeal with the surgeon. There are other "walking wounded," too! You must wait, wait, wait. And then-
Up comes a cheery Y.M.C.A. man, the ever present big brother to the soldier, with words of manly encouragement. Close beside the dressing station the good, generous folks at home have enabled him to set up a canteen. He hands you biscuits, and chocolate or coffee.
"In thousands of cases," writes an officer, "it was that first hot cup of coffee that dragged the man back to life and sanity!"
The tremendous helpfulness of the Y.M.C.A. as an aid to the "morale," or fighting spirit, of the soldiers is everywhere praised. No wonder the Germans make every effort to smash the Y.M.C.A. huts out of existence.

## Y.M.C.A. <br> Red Triangle Fund $\$ 2,250,000$, May $7,8,9$ Canada Wide Appeal

The Y.M.C.A. is everywhere. You first met the helpful manly Y.M.C.A. worker in camp, then on train and boat, at camp in England and in France, close to the firing line. Often he risks his life to reach you in the trenches. He has won the warmest praise from military authorities, statesmen-the King!

Have you a precious boy at the front? You cannot be "over there" to guide him away from fierce temptations of camp and city. You cannot comfort him in his supreme hour of trial. Your parcels to him are necessarily few. But the Y.M.C.A., thank God, is "over there," going where you cannot go-doing the very things you long to do-doing it for you and for him.
Will you help? This vast organization of helpfulness needs at least $\$ 2,250,000$ from Canada for 1918. For your boy's sake be GENEROUS! !


Cheer Up, and Thank God for the Y.M.C.A.!

## Brief Survey of Y.M.C.A. Service to Soldiers)

Branches in 20 Forestry Camps established last year.
Y.M.C.A. nightly under fire in many places.

300,000 letters a day written in Y.M.C.A. buildings.

Troops furnished with athletic equipment (helps morale of troops).

Entertainments, Bible classes, sing-songs, good night services and personal interviews conducted by Y.M.C.A. workers.
Y.M.C.A Red Triangle Clubs in Toromblis 18 Jolin, Montreal
and other cities for returnea soldiers and enlisted men.
Y.M.C.A. service extends from Vancouver to the firing line and then back to patients in hospitals until men are discharged.
Y.M.C.A. Secretaries accompany troop trains.
Between 400 and 500 millions of letters and cards written and posted in Y.M.C.A. tents, huts and dugouts since war began.

Splendid service to boys in Canadian Camp hospitals. Regular sing-songs and inspirational addresses with distributions of magazines, fruit, chocolates, gum, books and smokes.

# National Council, Young Men's Christian Association 

 Headquarters: 120 Bay Street, Toronto
## JOHN W. ROSS (Montreal)

National Chairman of Red Triangle Fund Campaign.
nink

## HORTICUL

Seasonable Garde
ated some 20 miles north of Toronto The farm dioplves theme from the tact that a most sttractive lake of about 30 acres is located on the farm, lmmediately west of the-house. The farm was bought three years ago. In the iaterval the houses and build. ings have bevn greatly improved. The barns are lighted by electrielty which also furnishes the power for operating the separator and otaer machinery used in the barm. In tho north-east corner of the barn is a well-arranged milk house, splendidly equipped and along the north glde is a root cellar, $16 \times 60$ fent. There are two silos, $16 \times 95$ feet, both of which were filled last /all. Mr. Burnaby has had consideraole success with his corn crop. Last year he grew some feet in height. His stables contain 22 box stallis. Bast year he won sec ond prize In the standing field crop competition for oats, hifs io-acre field of oats threshing 77 bushels to the
acre. Last year he grew 60 acres of oats.
The home farm Is divided Into 20 acre fields, except for a two-acre jad dock at the barn. For the most part the soll on the farn ly a heary loamy clay. The principal crops grown are hay, oats, corn and roots, all of which are ralsed tor the purposes of the hig
herd of stock that is kept. Some lden herd of stock that is kept. Some idet of the scale on which Mr. Burnaby operates may be realized when it is tle alone exceeded $\$ 25,400$, in addition to which the income from cream sold to ahout 83.000 . It is not uncommon for him to recelve $\$ 600$, $\$ 800$ and even $\$ 1,000$ and over for a single animal. Mr . Burnaby maintains four men steadty the year around, and ctafm to never have any trouble with hls help. He has two good houses for the married men, fitted with a furnace, electric lights, 'phone connection. etationary tubs and a bath room. These houses are shown in the tore ground in one of the accompanying
illustrations. Illustrations.

## Mr. Burnaby'b Start.

While Mr. Burnaby is proving himself a practical farmer and breeder, and now claims to have settled down
to farming for life, his first success to farming for life, his first success
was really achleved in business. His progress in the business world was interesting and rapid. Born on a very sinall farm in Queen's county, Nova Scotis, so milles from it rallrotid, it it point that is still 32 miles distant from rallway connections, he Ilved there until 1899, when he was 17 years of age. His mother stIII lives there. There were seven chititren ftr the tamily, most of them boys, practically all of whom have made good in a ble way. When 18 years of age, he took a six month s course in the business college at Belleville, after which he accepted a position as book-keeper in an organ manufacturing company in Toronto, at a salary of $\$ 8$ a week. manager of the company, hed was manager of the company, and was
Mr. Burnaby had outstanding abillt as a salesman. He has proved this ability not only as a Holstein breeder, tioned for his stock and which menbeen a revelation to other breeders. but also by his success in selling the stock of the United Farmers' Coopera. tive Company, Limited. This quality of salesmanship, manifested Itself early in his buninass career, when after leaving the organ factory he accepted a position with the Canada
Life Insurance Company, with whom Life Insurance Company, with whom
be remafned as an agent for about four years. His work in thls position led to his becoming manager for the Dominton. Life Insurance Company, a poaftion he held for three to four
years. His next move was to the Im perial Life Insurance Company, a the raanager for the city of Toront years hec was a member of th. $\$ 500,000$ club, a club among insuran. tien which can be entered only thosef agents who succeed in sellin $\$ 500,000$ worth of Insurance or ove In a year. The fact that he was member of thls club for four years succession is an indication abilicy. It fs sata that his comml sions at this time amounted to ove $\$ 10,000$ a year.
Having obtained a good start in th
Iffe insurance brsiness, Mr. Burnal) Iffe insurance brisiness, Mr. Burnah
next took up the real estate and fir next took up the real estate and fin
anclal busiriess. Very doon he ha ancial business. Very doon he ha
over 50 salesmen whose salaria over 50 salesmen whose salar
ranged up to as high, in the case ranged up to as high, in the
one man, as $\$ 12,000$ a year. three years in this business, in three years in this business, in whir he was quite successful, he sold o
the business to a trust corporation.

## Lived in York County.

For nine years Mr. Surnaby live near York Mills in York county.
short distance north of Torm short distance north of Toront with the farmers and breeders of locality. Three years ago made all the money he felt any nee for, he decided to take up farming and bougit and moved to the farm on which he is now located.
Last summer, Mr. Burnaby
a meeting at Markham, in Yortende tk, which was addressed by Mr Kennedy, vice-presiden of the Unite Grain Growers' Ltd. WIanlpeg, and by Mr. J, J, Morrleon, of the United Farmers' Cooperatho Company, L.ma
Ited. He had heard a good deal atont Ited. He had heard a good deal atout
the farmers' mon in Ontario and the farmers' mon at in Ontario an the west, and ad more interusted Ia it through addresses he
that day. Latur he attended that day. Later he attended meetings, bocame convinced that th
movement had great posalbillien movement had great possibilities in Ontarfo and began to identify hlmael
with it. Becanse of his business trail fng, his fnterest has naturally largely towards the Cooperatlye pany. Already he has accomplished many, Already he has accompllished movement. Realizing the absolute necessity that the company must have more money if it is to sueceed, he too hold of the work and was. mental in selling severat thousand dol Lars' worth of stock at the last annual meeting of the 'United Farmers' sociation, and of the shareholders the company, It was hils success in this work that was mainly instrumental in leading the delegates elect htm a director of the cons Since being elected president, Burnaby has sold thousands of dollars of additional stock and all without cost to the company. He has also visited Winnipeg, where he spent eral days enquiring into the $m$ Unlowed In business matters
It is yet too early to predict what the resulta will be of Mr. Burnaby's connection with the United Farmers Cooperative Company, Llmited problems that face him in his position are different and probally more complicated and difficult than past. He fs grappling with in the
pas parnestly, however and with them ficing his tme and interests, saca any salary return, in order that any salary return, in order that he
may do so. His success, in a big way in the things he has accompllighay the past gives reason to hope for an equal measure of success through his connection with the United Farmer Cooperative Company, Limited Cooperative Company, Limited. Shovi
he succeed In halping to pilot company through its many initial dif. ficulties, and in establishing it on a firm basls, he will accomplish something that will outshine and outlast
sil his achievements hitherto.-H.B.C.

TRA WBBRzues may
saona as the-rround
aud the piants can large ones for growing ! and thare are more to the Herbs that should be dan and that are easy mint, sage, and caraway
Be orepared to spray Be prepared to spray
this spring. Then do it time. If your can't do th out the orchard.
Onlons that have been winter must be used as
thaw out. As soon as thaw out. As soon
they begin to decay.
Eat two potatoes Instea use less meat. You will and the soldiers will have home thls year will soon hat will protect the home Do not throw away narcissi bulbs waen they den or the flower border.
sen or the fower boruer.
Sow radish seed with ot or carrot. They come up mark the row, making it Parsilfs properly cooke
ate earli. rellent vegetable. They grow. Get fresh seed an
arly. Cultivate well dur mer. They are not hur ellher early or tate.
Spiraea Van Houttel m Spiraea van houker
tedge plant that does no
Thunberg's barber piag. Thunberg's barber in the autumn. It is not for rust.
If your order of nursery before you are ready to pen and spread out the rench, packing the dirt w roots. It is a good plan t of two thirds of the shr

Clean-up for Sl T" come limy, slow-morting, mollusk of our gar unusually serious this spr Remedial measurestare successful against it. A te boards, etc., about the pr boards, etc, about the pr
buraing or destruction of buraing or destruction of
feace-rows and about the felds followed by the ap airslaked IIme will do mo one practice to control si one practice to control si
other insect pests oceur I ocher insect pests oceur
situations and will be destr situations a
same time.
If the clean-up is thorou, bait, conslsting of choppe elover, lettuce, etc.), one one tablespoonful; and wi or lead arsenate, one leve ful; thoroughly mixed, m tered in small heaps about
and the borders of feld time with beneficial result

For best results with po ihould be fairly rich. I per sere applifed in the falt dowil. I have also found clal fertilizer, provided a la application is given to mak teft. I have found last y
took at least 600 Jbs , of a er per acre to make any
difference in the yield aifference in the yield. pound, however, increase
and resulted in earlier mat works out at only four cel of row and a sllight inere yield will easily pay for -

Seasonable Garden Work S TRAWberries may be set oat as $S$ soan as the-ground worke eanily aud the plants can be dug. small onion sets are fuat as larse ones for growing bunch onions land thare are more to the quart. Herbe that should be in every ga den and that are easy to crow are mint, sage, and caraway.
Bo prepared to spray the orehard this spriog. Then do it at the right time. If you can't do this, better cut out the orchard.
Onlons that have been frozen over winter must be used as suon as they thaw out. As soon as they get soft they begin to decay.
Eat two potatoes Instead of one and use less meat. You will be better of and the soldiers will have more bacon. A few evergreens planted about the home this year will soon reach a slie that will protect the home from winds. Do not throw away hyecfnth and narclssi bulbs waen they are through blooming, but plant them in the gar dea or the flower border.
Sow radish seed with onion, parsnip. or carrot. They come up quickly and mark the row, making it easy to cutt! vate early.
Parsnips properly cooked are an excellent vegetable. They are easy to frow. Get fresh seed and plant them early. Cultivate well during the summer. They are not hurt by froat, either early or late.
Spiraea Van Houttel makes a good hedge plant that does not need elipping. Thunberg's barberry is per haps better because it carrles berries is the autumn. It is not a host plinil for rust.
If your onder of nursery atock comes before you are ready to plant, heel it in for a few days. Cut the bundte open and spread out the plants in a trench, packing the dirt wroll about the roots. It is a good plan to cover half or two thirds of the shrub in order that It may not dry out.

## Clean-up for Slugs

 $T^{\mathrm{HE}}$ common garden slug, this slimy, slow-moving, repulsive mollusk of our gardens, ornamentals, and lawns, promises to be anusually serious this springRemedial measures>are enly partly nuccessful against It. A general cleanup of all trash, crop remnants, blts of bards, etc., about the premises; the burning or destruction of grass miong fence-rows and about the borders of lelds followed by the application of air-laked lime will do more than any one practice to control slugs. Many other insect pests oecur in the same situations and will be dentroyed at the ame time.
If the clean-up is thorough, a polson bait, consisting of chopped-up leaves of some green succulent plant (kale, lover, lettuce, etc.), one quart; sirup. one tablespoonful; and white arsenie lead arsenate, one level tasppoosfi; thoroughly mixed, may be scat ned in mall heaps about cold frames me with berl of felds at planting ime with beneficial results.

For best results with potatoes, land Fould be fairly rich. I use 20 tons per acre applied in the fall and plowed
 toes will pay good profts on commerelal fertiizer, provided a large enough application is given to make ita effect th. took at least 600 lbs , of a 2.10 pertiliz. per acre to make any appreclable ifference in the yield. A thousand pouds, however, increased the yleld and resulted in earlier maturtty. This works out at oniy four cents per rod frow and a silght increase in the pield will easily pay for it.-Douglas Maynard, Leamington, Ont.

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production-another is to conseasve your output by better methods duce, making them go farther by carefully feeding stuffs you now proout thts problem this winter. The one best book of wheeds, Study on thls subject is "DAIRY FARMING," by Eckles a Wharch we know secure it from our Book Department. The price is but $\$ 1.50$, neatly bound in linen.
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## SHEEP AND SWINE

The Cost of Pork Production

T- HE unprecedented price of pork for the past several months na
turally causes the consumer to question whether or not the rise is legiumately due to increased cost of much abused middleman. The produeer himself is frequently uncertalin as to the actual cost of production when the various factors influencing costs have been accounted for. Indeed the charges against young pigs at six Weeks of age, where the maintenance of the dam is properly charged and Where present feed prices apply, Where no chesp by-product or refuse is avallable, and particularly where only one litter per year per sow is
ralsed is greater than many swine raised, is greater than many swine growers suppose.
The following figures are avallable (rom swine breeding operations at the Where on the Experimental Farms System and may throw some light on the question. To arrive at the cost
of young pigs the feediag costs of not of young pigs the feediog costs of not
only the dam, but also the grand-dam only the dam, but also the grand-dam
are necesary. In other words the full maintenance cost of the young sow, together with her millking period charges, shoul be nigured to artive
at the cost of the first litter. For succeeding litters a pro rata charge for each individual of the iltter, should be made of feeding and breeding charges incurred while the sow
was carrying and later nucking the litters up to weaning time. Feed cost to ralse a gilt to farrowing
Breeding char
while suckling itter to feed
Total cost of first litter
Cost per pig at weaning ( 7 in
a litter) If the cost were figured on the market value of the young sow, the cost
of the litter per pig would be con. of the
sideratly higher- $\$ 8.24$.
If soly after raising one litter the sow might be expected to bring about
$\$ 35.00$ or 885.00 , or to nearly pay the total cost
of her first venture. If retained as a brood sow, bred
shortly after weaning, and subse. shorty after weaning, and subseseven plgs, the cost per plg would be in the vicinity of $\$ 2.82$.
The average cost per pig may be
safely figured at 53.00 . Seven raised pigs per sow is a high average, numer. ous individual cases to the contrary. Costs Then and Now.
Several years ago at the Ontarlo
Agricultural College it was estimated Agricultural College, it was estimated that where all incidental feeding. maintenance and breeding charges were considered, young pigs could be
raised to six weeks at a cost of $\$ 1.27$ ralsed to six weeks at a cost of $\$ 1.27$
each, with an average litter of aix and each. With an average litter of alx and
one-halt pigs. Meal was charged at one-hal pigs. Meal was charged at
the rate of $\$ 20.00$ per ton; skim-milk, the rate of $\$ 20.00$ per ton; skim-mikk,
$\$ 3.00$ per ton; and roots, $\$ 2.00$. Pres$\$ 3.00$ per ton; and roots, $\$ 2.00$. Pred-
ent day prices would be $\$ 50.00 ; \$ 4.00$ and $\$ 3.00$ respectively at the loweat estimate and would explain the fact that the foregoing agares are so much bigher than the Gueiph indings, which were practically sirmilar to those shown at the Con
Farm at that time.
Farm at that ume.
The cost to produce pork from these joung plga against which feeding Joung piga against which reeding
charges at the average rate of $\$ 3.00$ each must be levied at six weeks of methods of feeding. Figures from the Experimental Farms records the Experimental Farms recoras moula indicate that four pounds of meal, or the equivaient in other be a safe basis. In the case of the be a safe basis. In the case of the
bacon hog this would amount at present feed prices to $\$ 13.00$ to $\$ 15.00$ per pig. Adding to thit the $\$ 3.00$
teeding charge would be from $\$ 16.00$
to $\$ 18.00$. Where skim-milk and pasto $\$ 18.00$. Where skim-milk and pas-
ture were both available to replace ture were both available to replace
meal, $\$ 15.00$ might be taken is a falr feeding charge.
Feeding charge.
While the average overhead charge is relatively small in the case of the ismer who keeps but a few pigs, it
is capable of wide variation, depending entirely upon the Intelligent underatanding of the owner concerning the principles of swine husbandry. A range of trom 20 to 69 per cent. of the feeding charges might be allowed. In most cases the
fairly be applied.
fairly be applied.
These estimates include only feeding and breeding charges and are exclasive of labor, depreciation, and overhead charges generally. The element of risk, much in evidence swine ratsing, is also omitted.
Under proper management there is a fair proat in hogs. To the con-
sumer and the prospective swine sumer and fower the grower the
would indicate certainly that such would indicate certainly
profits are not excessive.

## Dip Your Sheep This Year

$I_{\mathrm{g}}^{\mathrm{N}}$the face of the high cost of feeds Nat the ever-increasing negessity of greater production, it becomes the history of our sheap industry, that all handicaps such as the feeding of external parasites be eliminated as far as possible. It is next to impossible for sheed to make progress when covered with ticks and lice which annoy them continually. It is imposstble to estimate the loss of feed and the depreciation in flosh when a flock is
Infested. One may be certain, infested. Ons may bert cer at the feed consumed by the sheep is taken up by these parasites
A flock free from tleks and lice is the best insurance towards the better production of wool. The continual rubbing against fences and racke, causes a loss of wool and damaged fleeces which are docked in price.
Dipping ahould be regularly practised Dipping should be regularly practised
at least once a year, and better twice at least once a year, and better twice a year. The sheep should be dipped
in the spring as soon atter shearing in weather permitta; in the fall, before as weather pormits; in the ran, beefore
the arrival of cold weather. This will not only free the flocks from ticks and lice, but also tends to keep them free from any skin disease. Even though no disease or parasites be present aheep should be dipped as a means of prevention and it stimulates the growth of the wool to some degree. Small fiocks can be dipped in vats or other sultable uutensils on the farm, but in the case of large flocks a regulation galvapized iron or filecks a regutation gaivanized iroa or satisfactory.

## Community Dipping Outfit.

The initial cost of a convenient dipping outfit would be the greatest drawbeck to the small owner, who realizes the necessity of dipping at Ieast once a year, but does not see his way clear to go to that expense, By the of from ten to twenty-ave. trict combining and having a dipptng tank jomintly owned, it can efther be placed at a convealent centre, all placed at a conveaient centre, all
flocks for a radius of from two to focks for a radius of from two to four miles being driven to the centre and dipped on a certain day, or each sheepman using the tank in tura on
his own place. By the latter method It costs more for dippling fuide, as the smaller the flock dipped the greater the waste, but in either case the cont of dipping ts greatly rodoced.

It has been preached from the platform that the small farm, well tilled, will beat the large farm as an in-
come maker. I once believed that mycome maker. I once belleved that my.
self. I don't belleve it now. Acreage if the prime fetor fo detarminise the sise of the farmer's labor ficcome. -A. Leltch, O. A. C., Gualph, Ont


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tage cheese, butter and butternill.
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ซatceviri, omf. memrnas, 4BE.


LETT CHE
On Thumbs $T^{\text {HUMBS have not }}$ place in our polite lite
fact they have been neglected. And like the tiapot knights who used on quests of derring do, ris moaks and barons over old moaks and batic pates and dividi.ag tocratic pates an trodden $y$
with the down am herewith coming out
thumbs. Were
on fingers, not thumbs. do. Every herolne in the may find in my lady's work
long tapering fingers. The long tapering fingers. The
ally has square, honest fit ally hen they may taper if he At any rate they are stro, occasion they can fix them occasion they can ax them
traps of steel on the thr trips of stee, ou
villain. Yes, even the fingers, though they do
be gure. But thumbs? Lord love you But of thumbs in a n
neard of we know to the con
aught win folls are a thumbless thumbs crop out in detective order that they may leave
the freshly "busted" safe or the freshly busted safe or lock Holmes may deduce croopensities. They are als W. C. T. U, writera as sign which employees fipd cigare previous to denying cae clerk the desirable clerk hese that thumbs are not d he anatomy of a "character. But, despite the slights w bven heaped upon thumbs writers, they are tremandou
appendages. I can speak wi appendages. I can speak $W 1$
fy, not to mention feeling fy, not to mention feeling
rabject, for last week I cut subject, for last week
on my right hand and had on my right hand as then the
in at sling. It was ton out how useless would be-a
farmhand. For instance, tarmhand. For instance,
eften heard people speak of a nut on to a bolt with the Try this for yourself and ye what an important part in be Ford, with your thumb a mere spectator, or try openi of gluten feed, or untie a " h with your "tingers."
delide that it's not so bad
finger. You have plenty of finger. You have plenty of
take its place while it cu uake its place while It cu
hat a thumb is different. hat a thumb is different.
thumb is like the vacant ch thumb is like the vacant cha
sever, etc. I will admit tha is not built for style, but it handy-for it is set oppost tingers.
There's the point. It is Do not imagine that I can se
points in fingers. I have th pospect for them. While a
rems fingers is not up to muck thumb is out of order, on hand, you might have a doze and if your hand were finge lave their place, and their pl
lo posite each other.
Have you ever noticed ho itree is felled by two chop
right and one leti-handed? right and one leti-handed?
along well because thelr gift along well because their gift
posed. The same is true o posed. The same is true
Ia looidng over my little cir timate friends, I find that the umate friends, I find that the
many characterlities in coi find alno that those character not to be found in my makeup amoet every instaace see ragle side of life; they thin before they speak; and, as why, Venun or Adonis have n them -while I am opposite way-and, must I confees reader, as homely as a rall $t$

| LETTING |
| :---: |
| Bena ThE SUN |

## On Thumbs

T HUMBS have not had a large place in our polite literature. In fact they have been shamefully neglected. And like the brave old
tippot knights who used to fare forth tiapot knights who used to fare forth on quests of derring do, rapping rich tocratie pates and dividi.g their spolls tocrathe pates down troddon yeomanry, I am herewith coming out in defence of thumbs. I a real novelist I would write on fingers, not thumbs. They always do. Every heroine in the novels you may ind in my lady's work basket has long tapering tingers. The hero usually has square, honest fingers, but diven they may taper if he be artistic. At any rate they are strong, and on occation they can fix themselves like trups of steel on the throat of the villail. Yes, even the villain has fingers, though they do twitch, to be sure.
Oh, everyone in a story has tingers. Hut thumbs? Lord love you, whoever leard of thumbs in a novel? For aught we know to the contrary book
tolks are a thumbless ree. True thumbr crop out in detective stories in thumbs crop our may leave prints on order treshly "busted" safe or that Sherlock Holmes may deduce from the frook's in-turning thumbs his thieving propensities. They are also used by W. C. T. U. writera as sign boards on Wich employees fipd clgarette stains, previous to denying the prospective derk the desirable clerkehip. But these two exceptions merely prove the rieie, that thumbs are not desirable in the anatomy of a "character."
But, despite the alights which have been heaped upon thumbs by our vriters, they are tremondously useful appendages. I can speak with authority, not to mention reeling on this
rubject, for last week I cut the thumb nubject, for last week 1 cut the thumb on my right hand and had to carry it in a aling. It was then that 1 Tound out how useless would be a thumbiese
farmhand. For instance, you have larmhand. For instance, you have otten heard people speak of screwing Try this for yourself and you will tee. what an important part in played by the thumb. Try putting a new tire on the Ford, with your thumb acting as a mere apectator, or try opening a sack of glaten feed, or untie a "hard knot" with your "flingers." You will ukely decide that it's not so bad to eut a fliger. You have plenty of others to ute its place while it convalesces, but a thumb is different. An absent thumb is like the vacant chair which wever, etc. 1 will admit that a thumb is not built for style, but It's awfully tandy-for it is set opposite to the hagen.
There's the point. It is opposite. Do not imagine that I can see no good polaus in tingers. I have the highest
respect for them. While a handful of respect for them. Whine a handrul of themb is out of order on the your hand, you milcht have as dozen thumbs ond it your hand wero fingerless, you would be in a sorry pligtit indeed. Both hare their place, and their place in oppoite each other.
Have you ever noticed how quickly a tree is felled by two choppers, one right and one lett-handed? They get dione well because their gifts are oppoeed. The same is true of friends. In looking over my little circle of inlumate triends, I find that they possess many characteristics in common. I find alio that those characteristics are sot to be lound in my makeup. In tact, in almoet every instance my friende are my opposites. They see the more ingle side of life; they think deeply before they speak; and, as for looks, *hy, Venus or Adonis have nothing on them - while 1 am opposite in every mater, and momet 1 confees it gontie If ha not that one deliberately

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Wooden Buildingsrot under the Rats are moet detrestive to prop. potres of time and wather, Tore- erty and gnin, but Concrete is paire will not rot, hase repais are thowedi Concrete can not gnaw climinated. Concrete.
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 stepped.
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chooses friends because of their negative lharacteristics, but that when
people rub against each other, those people rub against each oumer,
who are temperamentally opposed, are attracted to each other in the same way as are two objects, one charged with positive and the other with negative electricity. And it is rightly so Two serious persons left in contact with each other would soon be in the dismais. Two jokers thrown together would soon be in the lunatic asylum. a happy medium, with the serlous one joyful and the cheery one depressed. The theory of opposites finds its largest acceptance in the matrimonial field. For instance, I am poor as a church mouse: I should, therefore, marry a wife as rich as the Queen of Sheba. It would not, however, be wise to mix temperaments that are too radlcally opposed. But a finger and thumb combination is a pretty safe bet. When two souls are starting out on such a long, long journey together, to each other. One should be able to supply the home with foy and the other with sorrow, as Blake has
"Joy and woe are woven tine
A clothing for the soul divine.
N.B-And if the young couple are apters will be rounded out and they will live happily ever atter-perhaps.


Kay

## FEEDERS CORNER

Ration for Cow on Test

 It is donbutul it the subseriber in.
quiring will be able to get the best quiring will be able to get the best
test without roots, for not only have test without roots, for not only have
roots a very considerable food value, roots a very considerable food value,
but, owing to their tonic effect and but, owing to their tonic effect and
their influence on the digestibilty of their influence on the digestibility of
the grains, as well as the milidy laxathe grains, as weil as yor essential in
tive effect, roots are very a test ration where the cow is being forced to a hmit of consumption and production. To supplement the shortage of roota 1 would suggent one feed daily of sugar beet pulp. This pulp could be thoroughly moistened with Wanm water and allowed to stand for
an hour or more before feeding. Beet an hour or more before feeding. Beet
pulp will take up about four times its pulp will take up about four times its
weight in water, and makes a palataweight in water, and makes a paiata-
ble succulent substitute for roots, es. ble maceulent substute for roots, es.
pectally it a litcle molasest is added peclally if a litcie molasses is added
thereto. A very good test ration with the foeds mentloned might be composed oc bran, 200 lbe.; oate, 150 lbs . gluten feed, 150 lhes.; cottonseed meal, 150 lbs , and linseed ollcake mesl, 150 bss. This grain ration fed as required with an addition of good clover hay, enallage and salt, should make a test ration which would be satisfactory to the average cow on test-E. S. A.

Good Feeding-Small Calves
 so from pure bred datry cown are not
of the
the ocality
 erable proportion of cottonseed meal He
cut out the cotionseed meal and clatma to be setting better calves ait rewult The feeding of the oottonseed meai prrect
the size and viror of calves? Does heavy
 So far as is known the feeding of influence the size or vigor of the calves at birth untess this were car. riod to the extrame of seriousty infuring the health of the cow while pregnank. Undoubtedily, cottonseed meal fod in excessive quantities to pregnant milech cows would faduce the typloal cottonsesed polsoning so
ommon in the excessive use of thin ever, If used at the rate of one to two pounds for the average milleh cow, or not exceeding four pounds to a large heary-producing fresh cow, it should have no infurlous effeot, providing, of course, it is properly mixed wili other meals. Undoubtedily, the arst injurious effect of the excessive use of cottonseed would be on the com Overfeeding the dafry cow with any reed staff which would cause derange. nent of the digestive system or ex ceasive fatness undoubtedly does at fect to some extent the size and vi-
tality of the calt at birth, - E. 8. A.

## Value of Annual Pasture

$A$SMALL field of summer pasture gown on the tarm is very valu-
able in many ways. If the ordinary pastures are short and dried up during July and August, the piece sown to summer pasture will tide the stock over the dry pasture period. If the ordinary pasture is good, then the ommer mixture can be cut for hay or allowed to ripen as a crop. It down, especially when which to seed down, especially waen pastured or cut racular apring seeding is comploted. Summer pasture mixtures summer pasiure mixtures were Fith good resultis, in connection with the Illustration County work belng conducted by the Commission of Conservation in Dundas county, Ontario. On one man's tarm five acres were ind as follows: one acre to oate and votches, one acre to a mixture of heat, oats and barlay. This field en ther five-scre field. Whech hay an leld of 10 tons. The summer pas ure grew so well that, when read or use, it was fenced acrose and only hale of it pastured. The two and one hal acres, however, provided the main pasture for 12 cows during July and most of August, and caused an nerease of 35 pounde per day in mill tield, which held up for more than month, while other pastures were thort. The otaer half of the field ylelded six londs of mixed feed cuit green and made into hay. The Feld was seeded to clover and timothy, and the onset of the wintar found it in splendid condition with a good
catch of grass and clover.-F. C. N.

## Potatues as a Hog Feed

$\Delta^{8}{ }_{\text {ration }}^{\text {a }}$ potatoes alone tro not not an efficlent hog feed. Grain should be fed with them and usually it will pay to add a protein supple ment such as milk, ollmeal, or tank age. Grain is the standard hog feed. Here are three such values. The Denmark station says 4 pounde of porain. The wisconsin pound of mixed grain; the Wisconsin station says $41 / 2$ pounds of potatoes. Will replace ${ }^{1}$ pound of cornmeal; the Oregon sta toes are equivalent to 1 pound of bar ley. On the basis of the Wisconsin results, $\$ 1.50$ corn is as cheap a feed as potatoes at $351 / 2$ cents a bushel. Or a bushel of potatoes will replace $13 \%$ pounds of corn. In a receat test by the United States Department of Agriculture at Beltaville, Md., potatoes were compared wina corn. To repiace a pound of corn 5.85 pounds of pota loes were required. Moreover, the po ato ration required for each 100 pounds of pork produced 27 pounde hore of protein supplement than wa equired on a corn ration.
Feed grain with potatoes. One plan 5 to mix grain and potatoes as oon is the lauer aro cooked, and allow it to steam until cool enough to fourth as many pounds of greis one potatoes. Any grais is grood. Ad potatoos. Any grain if good. adis. If not avaliable, add milk if possibie. If not avalabie, add of tankage to each fifteen pounds of graln-potato mixtars.-R. C. Asby.


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One heavy duty type "SuC Cegs" Churn, $1,000 \cdot \mathrm{bb}$. capacly. enamelled white. In good orde
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## Letters to th

"The One Dar DITOR, Farm and I E it entirely anneceene such letters as the on "England and Drunk is not true of Engiland,
Wales, as a whole, thou Wales, as a whole, thou
true of some low gamb true of some low gamb
low part of some of the low part of some of the
all my 35 years' life in E to farmers' markets and enness as I have geen in bere and I nevter heard ing and awearing and I More than that. Engliah who are to "dan Ged and his son Jesuas C hips in the profane way In Canada. England, thar good to Judge Cannela b and try to improve when without uncharitableness letter like that appears I subecription and as man
can-G. L., Algoma Dint.

Is Thorough Cu

## Necessary "

$E$Dipor, Farm and D measure in adding a caltivation by mhtch appeared in the ner I grew, I believe, trree acre field of oats in
Tee seed got but one so The seed got but one
harrow after plowing. roadcast, seven and one
ot " 41 " oats to the three of "11" oats to the three
hind was oat stubble and Near the end of June I ay on a five-acre hel.
o be worth cutting. ${ }_{3}$ a spear of timothy. wen, only natural grase poor. On the morning o atartod a three-horse gang wohorse plow at thts fe ooct half the field was a the afternoon while the be Aeld with oats broude am an expert, hand ares oclock I set the two
arrowing after me wfl apring tooth harrow whill borse team continued pli rundown all fintshed abo taikhed the sowing. lorse tasm finished plowi aern feld, and the harrow thy the seed.
Fold got On Mone harn 25, il rolled the field wit acre oat feld spoken of at sang plow made soeh nice inch sod, that there whis
of meed falling between ti of med falling between tu
The crop grew to be an ex On Oetober 3 rd 1 ent the
the bfader. It resulted in the btader. It resalted in
or thoekn-s Ane field of spy or shockn-a Ane feld of sp
ond Another thing, farmers ton mach seed. loe than one and th good though, being is ibs . arod bushel. Two buahels Wacdonald, KIngs Co., P.E.

Have any of our follos ever od a wooden windmillt
 het hitht. Farm and Dairy wigh olograme

## Letters to the Editor

"The One Dark Blot" $\mathrm{F}^{\text {DITOR, Farm and Dairy. }-1 \text { think }}$ F. It entirely unneceesary to publish Euch letters as the one you have in a recent lisucu. I rofer to the one on "England and Drunkenness." That Wh not true of Eingland, 8 otland or Wales, as a whole, though it might be true of some $10 w$ gambiling den in a low part of some of the towne. But in all my 85 years' life in England- going of thing- - mever saw as much that kind ennees - I I haver saw as much drunkbere and I neter seen in my six jears ing and swearing ind as much cursMore than that. These winneruage. (i) Englifh who are to These wicked (7) Canadian boys don't dam your clean God and his son Jesus Christ on thelt fips in the protane way that 1 hear it in Canada. England, thank God, is too good to Judge Canada by her worst. she win look for something to praise and try to improve Where necessary winout uncharicabieness. If another letter ithe that appears I wil, stop my can-G. I and as many more as I can--G. L, Algoma Dist, Ont.

## Is Thorough Cultivation

 NecessaryF
DrTOR, Farm and Dairy,-1 take pleasure in adding a word of apan cultivation by which appeared Mr. W. C. Good, lesue of Farm in the March 28th mer I grew, I believery, Last sumbreeacre fleld of oats the heaviest The seed got but one in these parts. harrow after plowing. It was of the broadcast, seven and one halt bas sown of "41" oats to the three acreushels and was oat stubble and second The Near the end of June 1 sam that bay on a five-acre feld was not the to be worth eutting. There gat ing a spear of timothy or clover nol seen, only natural grasese ser to be soor. On the morning of yand thal tarted a three-horse gant plow 231 twohorse plow at this geld plow and a aboet half the field was plowed and In the afternoon while $v$ e two and ware at the plowing. I peran teams as feld with oats broudcast by hand ( am an expert hand sower) At atree o'clock I set the two-horme. Al harrowing after me with atio apring tooth harrow while the three orne team continued plowing undown all finsshed about togethar Anished the sowing. The threes. horse team finlahed plowing the five sere field, and the barrow team fniteof one serape harrowing and coverlag the soed.
That was all the harrowing the teld got. On Monday morning, June ${ }^{25}$, I rolled the field with a heavy rollor, (an I almo did with the throeaere oat feld spoken of above). The ang plow made soch nice work, $5 \times 9$ inch sod, that there was no necaston d seed falling between the furrows The erop grew to be an excellent one On Oetober 3 rd 1 cut the crop with ithe binder. It resalted in 167 stooks or thoekn-s fine feld of splendid cow feed-as it cared well in stook.
Another thing, farmers are sowing too much seed. I onty sowed ntne bushels of oats on this fiveacre feld, lose than one and three-quarter busbels per acre. The seed was extra cood though, beling 41 lbs . per meak. ured bushel. Two buahels of mood oate to enough for an acre pood Macdonald, Kings Co., P.E.I.

Hare any of our follos ever constructa sooden windmin! An Ontario mader would like to have directions and a libt of material for a mill 30 fort htht. Thrm and Dairy would be yhad to recompense any reader for magh amgrami and description of and atntmin.

## \$2 21 Per GUARANTEED Bu. WHEAT

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 and coavenient tranaportation. Aet now-get awny this spring. Tractors ound Farm Implements Easily available-new Covernment assistancia plan. Chnatian Northore oflers the way, Wre opportunity, is there, and the


When Writing Mention Farm and Dairy

Brantiord Merosene Engines suteram: "woinis.
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Fravill ant latity


## Farmers and Farmers

ALLL over America, "agriculturists" are divididing
into two classese into two classes. In the frst group are those Who own farm land but who do no work on it themselves, either leasing it or depending on hired tabor. The other group is made up of working farm ers-men who own their own farms, with or without mortgages, and who are struggling agniast the bur den of indirect taxation and the monopolies that indircet taxation creates, to make an honest living in the most essential and honorable of all industries. They are the farmers whose children go to the dis. trict schools and who take a deep personal interest in the improvement of the neighborbood and in the maintenance of its churches.
Wortunately, the latter group of farmers still predominate in Cenada. Even here, however, the proportion of tenant tarmers is ssowiy but surely incroasing, and many great landod estates have alreedy boen estabisbed. In the United Statees there are Whole states in which tenant farmers are in the maJority and corporation farming is an estahlished inatitution. Just how conficting are the interests of these two groups of farmers is well illumtrated by recent developments in the State of Califormia. where to a two classes ct farm land ownars have
The bona ade farmers don't want Chinese for their neighbora. They know that the tenant system of tarming is growing rapidy, and they know that men Who have no personal interest in the neighborhood will not henitate to lease their land to chinese, who would soon outnumber the whites in that lociality and ruin the neighborthood as a congenial home for themaolves and their childron. On the other hand, the land speculatorn. absentee owners and real estate agente are adding their clamor to that of urban employern of labor and insisting on the importation of Chinese. In self defense, California tarmers of the producer class have now joined hands with the labor untions of the cities in a powerful new organization known an "The California Union of Producers and Consumers."
It may be many years before we in any part of Canada are faced with so serious a situation as has developed along with tenant farming in Californin. The
tendency, however, slow though it'be, is in the same direction. Our land laws and our systemis of taxation are the same as theirs. We have no special Providence watching over our destinies. If we are wise, we will leara a couple of valuable lessons from the experiences of our neighbors in the south-west. The first is the essential unity of interest between bons fide farmers and the laboring men of our cilles; the farmer makes his income from his labor, rather than from his capital invested. The second lesson is the danger of a system of taration whlch makes it easy for capitalists to obtain control of farm land. The logical remedy for this is a change to a system of taxation which would make it impossible to profitably hold land out of use and thereby exploit those who must work the land for a living. Such a system is the taxation of land values recommended by all the great farme 's' organizations of Canada. The real problem is summed up in this question: Do we want real farmers in Canada or are we going to develop the system of absentee land ownership which has cursed so many older lands?

## The Swing to Grain

AwELL read observant dairy tarmer remarked to us a day or two ago that if the war con-
tinued much longer, dairying would tome on hard times. He commented on the ever tncreasing price of grain without compensating advaaces in the price of dairy products. Labor, too, he thought, had advanced out of proportion to to ts earning power. Both of these factors tend io induce dairy tarmers on good land to reduce their herds and swing to gratin. "But the swing back to dairying will bo even stronger, once the war is over," he addec. "I And that such is the history of agriculture in all past wars-a swing away from live stock and then a swing back."
It we would add to our friend's predictions, it would be by suggesting that it is easier ts swing to grain than it is to swing back to dairying. Building a dairy herd, a profitable dairy herd, is a laber of years. Dispersing it is the matter of a few hours and the assistance of a good auctioneer. We cannot emphasize too strongly, however, that if markets follow the usual course after the war, dairy and animal products will be at a premium and the grain market will be in a state of demoralization. The men who will then be in a position to profit by the greater demand for dairy products will bs the man who has held on to his herd. We cannot advise dairy farmers, in view of the present labor situation and the high price of grain to increase their berds. We belleve, however, that all dairymen will be well advised to "carry on" and keep their herds well up to normal. It some of the milch cows must be disposed of, then be sure that there are equally good heifers coming along to take their place.
There is one exception to this rule-the man with lots of natural pasture and whose land is not spectally adapted to grain growing could find no better time than now to profitably increase hia dairying operations.

## The Happy Medium

"I'harry thaw had had to work for a living. he would probably have been a very decent, respectable fellow.
With this telling illustration, Dr. J. G. Rutherford, "Canada's biggest farmer," announces his belief in
the doctrine of work. We all agree with him; a certhe doctrine of work. We all agree with him; a cerand girls in sehool. There is nothing like work to keep the youngaters out of mischief, and it alds in their mental and spiritual as well as their physical development. Come to think of it, the greatest curse of the city youngater is idleness; enforced idleness because there is nothing to do.

And the greatest curse of too many country children is so much work that it becomes drudgery. And drudgery, to the child, is soul-destroying. It atunts development, mentally and physically, It is a common thing for the country child, particularly the boy, to be taken out of school young; he is needed to help at home. The majority of school children in rural Canada never get so far as to write their entrance Canada aever got so far as to write their entrance
examinations. Dr. Ruthertord states that eighty-five per cent. of the boys and girls who attend the agrtcultural schools in Alberta have not passed the third
grade in the public schools. Fortunately, the mate easterly provinces can make a better khowiag, bat not by any stretch of the imagination could the show. ing in any province be considered satinfactory. Here we have the two extremes: too little work the eity youngater; too much for the country boy sirl. There is a happy medlum where manhood womanhood reaches its strongest, sanest and bep development. This happy medium is most easily at tained in the conntry, and we are glad that an creasing proportion of rural parents are itudyios the problem of child development. For the child the problem of child development. For the child of
to-day is the citizen of to-morrov, the maker of the future destiny of the nation.

## The Next Fuel Shortage

THE Dominion Fusl Controller calls attention the advisability of laying in a stock of wood ties to stock up with wood wherever posslble, and Is even suggested that city and town councils acquiro wood lots and cut wood as a municipal enterprise not for proflt, but as a pafeguard againat a more ser ous fuel shortage next year than the one from which we suffered this past winter. Farmers who have wood lots are urged to depend on their own f largely, if not altogether, for the next winter's use Eastern Canada cannot afford to overlook the fart that a very considerable proportion of its coal supply comes from the United States. The coal shortage of that country has been officially estimated to be not less than $50,000,000$ tons, and Federal and Siate fuadministrations have been appointed to assust in solv. ing the very serious problems which have resulted from this great shortage in the production of coal. Authorities consider that this shortage will continue for the duration of the war, and the situation is bound to affect Canada seriously. The obvious thing for us to do, therefore, is to consider how $f$ great forest reaurees may be utilized to meet the conditions that may possibly face at least the eastern portion of the country during the next water. fndividuals, we farmers can play an important part by each one of us making an effort to secure our own fuel. The Fuel Administration, however, will do well not to forget that large sections of Ontaric, and of some of the other provinces as well, have practically no wood lols left, and the limitation of coal deliveries in these districts would work a serious hardship.

## Red Triangle" Fund

WHEN the war broko out, ho Young Men's city organization, depending on eity money for its support and on eity young men for its member ship. In the last three and one-halt yeare, however the magnitude of ite war servicen has made the Y.M. C.A. a national asset of the first order and deserving of tie hearty good will and financial support of every citizen in every community in Canada. Whea the first Canadian contingent transferred its training camp from Valcartier to Salishury Plains, the Young Men's Christian Association went with them. When
our boys went to France, the "Red Triangle Huts" our boys went to France, the "Red Triangle Huta
immediately became the popular gathering places, Immediately became the popular gathering placea,
Where, amid healthy Christian surroundings, enter tainment and reading matter were provided, and is was here, too, that hundreds of thousands of letters have been written to the folks back home on Y.M.C.A Writing materials. The environment of these huts has held many a boy to the path of clean liring when the temptations to which all soldiers are aubjected would otherwise have led him astray. And when the boys went forward into the trenches, the aign of the Red Triangle went with them, and Y.M.C.A. worker dispensed hot tea and coffee in the very front line trenches during the heavient bombardments.
The leading men of all the Entente nations have expressed their warm admiration of the work accomplished by this association. But all of this work roquires money. The Canadian Y.M.C.A. is aiming to raise $\$ 2,250,000$ in the three days, May $78-9$. They are appealing for the support of every Canadian in the raising of this fund. They are asking tor the contributions of the people who live in tha country as well as those who live in the clity, An announce ment of thin campaign is given elsewhere in this issue. Look it up and consider carefully the clalms of "The Red Triangle" fund on your generosity.

Aomitur ane
farmers is
Vailey Milk Fraser Vailey Milk P
clatioe. While this only been organised ty the dairy world. In months of its existenc ite 848 farmer member
dollars. In fact, the dollara. in iach, the
received by the farmer was $\$ 1,286$, with an av,
$\$ 42$ per member still from the reserve. It is about four yenr attempt was made to or
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Vancouver.

Large Equipm At the present time t of the association fs
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working capital is about In addition to marketin their members, they have tensively into the coop
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the association has obta producers about 10 cent
butter fat facrease over bave been obtained in marketing, so that the $r$ members have been hig
On thin assumptio dual inverting $\$ 50$ in the rill receive $\$ 3$ interest for more for a can of milk tes
molis ant. and $\$ 36.50$ on the 50 Investment for one 150 Investment for one

Will Get More Cal At the annual meeting the extensions in the bandling the surplus mill purpoee they are asking perve for distribution, $\$ 36$
eis ivided, but be added to
tock. It in not difficnit to that with such an admira
lime difficulty was experl little difficulty was experl ligning the members durl
fill on three-year inatead o contract. This long period the consolidation of the fe
association and its establis permanent foundation.

The new seeretary of
Shrmers of Alberta is Mr . Farmers of Alberta is Mr. botham, Who will succeed
secretary, Mr. P. P. Wood secretary, Mr. P. P. Wood
ferikned recently, Mr. Hf

## In Union There is Strength

A Million Dollar Cooperative Business

0NE of the best examples of successful co-operatlon among farmera is furnished by the Fraser Valley Milk Producers' Association. While thls association has only been organised twelve months, it thas already made a name for Itaelf in the dairy world. In the first ten months of its existence it paid out to ite 848 farmer members over a million dollars. In fact, the average amount received by the farmers for this period $\$ 42$ per member atill to $\$ 42$ per member still to be divided It is about four
It is about four years since the first
attempt was made to organize the Mill Producers of the district. Up to that time milk prices in British Columbia had been set by the milt dealers with very little attention pald to the vlews of the producers. The first attempt was not a success. A year ago, how. ever, when the new organization was buggested, 80 to 90 -per cent. of the farmers aigned up contracts to supply their entire products for the year to the association. It was financed by each fartaer agreeing to take a $\$ 50$ share for every can of milk which he supplied; in other. Words, if the averwe amount supplied by the farmer Would run to two cans he would take thare of thls was paid into the per clation, and the remafning stock was taken up by deduction from the milk cheques for each month. As a result, the assocfation has, after less than a year's operation, a pald-up capital of over $\$ 70,000$. Of this $\$ 40,000$ is invested in the milk distribution plant in Vancouver

## Large Equipment.

At the present time the equipunent of the association is considerable, there being $\$ 23,484.46$ invented in plant and machinery. The dellivery equipment runs to over $\$ 4,000$, and $\$ 5.400$ is invested in cans. Altogether their working capital is about $\$ 75,000$. In addition to marketing the milk of their members, they have also gone extensively into the cooperative purchase of feed, and it requires about $\$ 10,000$ working capital for this one homically, the net cost of operatlig benomically, the net cost of operating being about $\$ 18,500$ per year, which makes it about four-hithas of one per the association has obtalned for the producers about 10 cents per pound producers about 10 cents per pound
butter fat increase over what would have been obtained in competitive marketing, so that the results to the members have been bighly satigfactory. On thim assumption, an individual investing $\$ 50$ in the share capital will receive 83 intereat for one year on his Investment. He will recelve $\$ 146$ more for a can of milk testing four per cant, and $\$ 36.50$ on the dintribution, ar a total of $\$ 185.00$ net protit on the $\$ 50$ investment for one can of milk, covering a period of one year.

Will Get More Capltal.
At the annual meeting considerable capital will be provided to take care of the extensions in the clty and for bandling the surplue mill. For this jurpose they are akking that the recerve for distribution, \$36,270, be not divided, but be added to the capital stock. It in not difficult to underatand litio difficulty an admirable showing lgning the members during fill on three.year Instead of the past contract. This long perled atil permit the consolldation of the forces permit ssociation and its establishment on permanent foundation.

The new seeretary of the United Farmers of Alberta is Mr. H. Higginbotham, whe win sueceed the forminsecretary, Mr, P, P. Woodbridge, who terienaed recently. Mr. Hfaginbotham
has had an excellent training for hly ew poaldon, for some yean he aad later in Altertang in England and at the Olds Sehool of Apent two years berta, and Achool of Agrieultare, Alhas had an editorial lant three years position on the Grain and advertising position on the Grain Growers' Guide,
of Winnipeg. He is about thirty years of age He is about thirty thoroughly understands Higginbotham conditions in the West, as well altural economic problems that well as the solved if the wellare of farmers be class is to be best promoted. He is acquainted with the leaders in the farmers' movement in Canads in the an energetic and tactifl mana and is long he should be one of the leaders in the farmers' movement.

Big Crop of Potatoes
(Continued from Page 4.) seed to the acre, cutting the seed to two eyes in two ounce pleces as near explained in part too by elose may be ing. We never have the rows more than two feet apart and drop the seed 15 inches apart in the drill."
"And how about the preparation of
your soll"" your soli "\%"
best of shape get the land in the very best of shape before we plant. Some times the land is plowed and manured in the fall; usually it is plowed. This last year we manured in the spring, and it has been our experience that apring manuring does not cause scab nor, for authorities claim. Mr. Raynor, for Instance, was fearful of scab, but when he saw my potatoes in the seen a cleaner lot. We he had never heen a cleaner lot. We always plow in the s
ly.

Plinting Methods.
"When it comes to planting, we have a way of our own. We mark the rows out with a hand-drawn marker and then put the potatoes in with a hoe. A man can go along chopping out the holes in two rows at almost an ordinary walking pace. The seed is dropped in these holea three or four inches deep and then we cover with a
plank drag. We barrow plank drag. We harrow frequently inches, or so that we cap a couple of nicely. Then we start the cultraws and cultivate every week or ten days untll the crop is taken out. "The Irish Cobbler is an riety, and we plant it as early in vaspring as posaible to take advantage of the early market. Laat year we planted on April 18th, and dug our first potatoes for market on the 12th day of July. Our main crop, however, Was not put in until the first week in May. We grow Iriah Cobbler for both early and late crop potatoes, snd can aee little advantage in growing the later varieties,"
Mr. Williams
blight. He once sprayed not apray for blight. He once sprayed for three suc. cessive years, but in those two years hood, and he bugat in the nelghborwith it since. This he been troubled part at lesst, by he accounts for, in which hls seed is in the ground also grows his potatoes ground. He ground year after year. He does net claim that this is the best plan, but it is necessary on his small acreage The heavy manuring, of course, will tend to keep the soll in good physlcal condition, and there is no danger of the muck running short of humus. The main point which Mr. Williams wishes to emphasize is the value of fmmature seed. He intends to continue his lests with New Brunswick versus home grown seed agaln next year.

Disking atubble land before plowing will result in a better seed bed and a heavier crop. There are no air spaces
under the furrow slices. under the furrow slices

# RIGHT NOW IS THE TIME 

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Lefters Llie These from Hallfax to Vancover
$\qquad$
 Rem, 12 an


## OUR FARM HOMES



ION'T fancy that you will lower yourself by sympathy with the lower creatures: you cannot sympathize rightly with the higher, unless

## The Heart of the Desert

## (Continued from last week.)

6THINK animals come to the eating!" he said. "Why it the beat spring animals come to the I were were wet footmarks there hen I went down to wash my face."
"Bulty!" exclaimed John. "Wait
"ow, let's watch."
$\qquad$
The two dropped to the ground and peered over the edge of the upper terrace. The spring bubbled forth serenely, followed 1ts shallow trough a short distance, then disappeared in-
to the insatiable floor of the desert. For several moments the two lay watehing untll at last Rhoda grew restless. Dewitt lald a detaining hand on her arm.
"Hush!" he whimpered.
A pair of jack-rabbits loped up the with forelegs in the water trank greedily, Dewitt's right arm stiftened, there were two puffs of smoke and the two kieking rabbits rolled into the mpring.
m beginning to have a little self. re-pect as the man of the party," sald DeWitt, as he blew the smoke from
Rhoda ran down to the spring and lifted the two wet ilttle bodies. Jobin took them from her.
"If you'll find some place for a
table, 1"ll bring these up in no time." When Dewilt came up from the spring with the dressed ratbitt, he found acks. Near by on a big flattopped stone were net forth two earthen bowls, with a brown waterjar in the center. As he stared, Rhoda came out of the building with Interested face.
"Look, John! See what I found on a Hittle corner sbell!" She held in her outstretched hand a tiny jar no bigger than a wine.glass, It was of even an explorer can have been here, or nothing so perfect as this would bave been left! What hands do you suppose made this:
But DeWitt did not answer her question.
"Now, look bere, Rhoda, you aren't to do anything like starting a fire and lugking these heavy Jars again! You're not with the Indians now You've got a man to wait on you!"
Rhoda looked. at him curlously.
"But I've learned to like to do it
nhe protested. "Nobody can roast a
rabbit to suit me but myselk," and in rabbit to suit me but myselK," and in
spite of DeWitt's protests she spitted spite of DeWitt's protests she spitted the rabbits and would not let him tend the fre whitch she sald war too fine an art for his untrained hands. In a short time the rich oder of roast-
tng flosh rose on the alr and John Ing flesh rose on the aif and John watched the pretty cook with ad-
miration mingled with perplexity. miration mingled with perplexity; Rhoda insisting on cooking a meal!
More than that, Rhoda evidently en. More than that, Rhoda evidently en-
joying the fob! The Idea left him speechless.
An hour after Rhoda had spitted the game, John sighed with contentment as be looked at the pile of bones benkle his earthen bowl
"And they may jacks aren't good

John rose and walked up and down estlessly.
"Rhoda, If a white man had done this thing I would shoot him as would a dog. What do I care for a law in a case like this! We were men long before we had laws. Why hould thif Indian be let go when he has done what a white would be shot

Rhoda looked at him keenty.
You talk as if in your heart you knew you were going to kill him be canse he is an Indian and were try ing to Justity yourself for It!"
He turned on the girl a look so haunted, so miserable, yot so determined, that her heart sank. For a time there was sllence, each afraid to speak. At last Rhoda said coolly:
"Will you get fresh water while bank in the fire?
Dewitt's face
DeWitt's face relaxed. He smiled a little grimly.
"I'll do anything for you but that one thing-promise not to kill the In dian."
The desert has changed tis both John," suld Rhods. "It has taken the "Maybe son" of us!"

Maybe so," replied DeWItt. only know that that Apache must pay for the hell you and I have lived through."
"Look at me, John!" cried Rhoda. "Can't you realize that the good Kut-le has done me has been far greater than his affront to me? Do you see how
well I am, how strong? Oh, if well I am, how strong? Oh, if
the human soul appalled her. Thly
was a DeWitt that the East never Was a DeWitt that the East never
could have shown her. It mickened could have shown her. It wickened her as she realtzed that no words of
hers could sway this man; to realize hers could way this man; to realise
that she was tryfng to stay with her feeble feminine hands pasalons that feeble teminine hands pasaions that were as old a world-force as love
itself. Alt her new-found strength seemed inadequate to solve this new problem.

## OHAPTER XIX.

## The Trall Again

For a long time Rhoda sat silently considering her problem and John watched her soberly. Finally she tarned to speak. As she did so. caught on the young man's fach look so weary, so puzzled, so alt gether wretched that the girl's heal smote her. This was indeed a return for what he had endured her. Rhoda jumped to her feet with resolution in her eyes.
"Are you too tired to explore the ruins?" she asked.
DeWitt rose languldly. Rhoda had responded at once to rest and food but John would need a month of care and quiet in which to regain his strength.
"I'tl do anything you want me to In that line!
Rhoda carafully ignored the last phrase.
"Even
"Even if we're half dead, it's too bad to miss the opportunity to exam. Ine such a wonderfud thing as this. You couldn't find as glorious a settin
for a ruin anywhere in Europe." for a ruin anywhere on Europe
"Oh, yes, you could: lots of 'em
answered DeWitt. "You can't con answered DeWitt. "You can't compare a ruin like this with anything in Europe. What makes European ruins appeal to us is not only their futrinsite basuty but the assoclation of Ideas with them. We know that big thonghts buile them and perhaps de stroyed them.
"What do you eall blg thoughts? asked Rhods. "Wasn't It Just great for these Pueblo Indians to per form such terrible labor in building this for their families as it was for some old ling to work thousands slaves to death to buitd htm a monument?

DeWitt laughed.
"Rhods, you can love the desert, Its Indians and its rulns all you wand to, if you won't ask me to! I've had all I want of the three of them! Lord, how I hate it all!"
Rhoda lookad at him wintfully. only he could understand the spirit ual change in her that was even greater than the physical! If ouly he could see the beauty of those far lavender hazes! If only he could usderstand how even now she was heartsick for the night trall where one looked up into the sky as into a shadowy opal! If only he knew the peace that had dwelt with her on It? boliday ledge where there were tints and beauttes ton deep for words! And yet with the wistfulness came a strange sense of satisfaction that ati this new part of her must belong for ever to Kut-le.

John led the way into the dwelline All was emptiness and ruin. All that remained of the old life within its walls were wonderful blts of potter: Only once did DeWitt give evilene of pleasure. He was examining the carefully fint hed walls of one of the rooms when he called:
"I say, hoda, Just look at this bit of humanness
Rhoda caine to him quickly and the pointed low down on the adobe will where was the perfect imprint of baby's hand.
"The Uittle rascal zot apanked, ITl bet, for putting his hand on the dobe before it was dry!" commented Johin Rhoda smiled but said nothing very real and very pltiable to her.
(Continued next week)

The Upwe
Winning Thro

RgCENTLY we h helyfat and ins
titled "Ablde in titled Ablde in
Rev. Andrew Inown missionary to It teaches the secret through the power o Chrish, over besettin, pase publishing extr book for some week will prove a means Those who would 11 book for themselves Les through Farm at afls Ye. Who Have
"Come unto ms," "Ablde in me,"-John It is to you who hearkened to the. ca me," that this new
"Abide in me." The from the same lovins doubtless have never come at His call, promises He fulalled partakers of the ble joy of His lova. WH come His hearty, His free, His love most
clous? You more that first coming to H Hm , say, "The half was nc Alsappolntment: your expectations we The blessings you onc ost; the love and Jo deepening, have beco faeble. And often you what the reason coule such a Saviour, so mle hould not have been The answer is ver wandered from Him. He bestows are ati enjoyed in close Himself. You elther understand, or did not Me to stay with Me," was in very deed His pose when Arst. He Himself. It was not erslon with the joy a deliverance, and then orta to wander in sa e had destined you to enjoyed only in th earnestness and praye pass away, as yout hat art of life has to be deed: He had prepare
ablding dwelling with ur whole life and evi might be spent, whei your dafty 1 re might Where all the while yot foying unbroken con And observe especial hat He said, "Come with Me," but, "Abide in broken, but most intlm plete. He opened His you to His bosom: H heart, to welcome you th ed up all His Divine and love, and offered into Its fellowship, to mi one with Himself, Ther His words you cahnot And with no less ear He had cried, "Come te plead, had you bui noi
ha Me." By every motir fuced you to come, dh

## The Upward Look

## Winning Through Christ

RbCENTLY we have read a most helptul and Inspiring book, enRev. Andrew Murray, the well late Rev. Androw to soun, well inown yisshes the seeret of dally victory. froukt the power of the indwelling Chist, over besetting sins. We pur gase publlehting extracts from, thes pase for some weeks and hope they till prove as means of great plessing the readers of thls department Those who would like to obtala the bok for thamselyes may obtain cop mo throuth Farm and Datry for 60 sents each.-T.H.N.
All Ye Whe Have Come To Him
"Come unto ms, "- Matt wi "Abide in me,"-John xv. 4
It is to you who have theard and haarkened to the call, "Come unto me". that this new invitation comes, me. that this now havitation comes, trom the aame loving saviour You doublless have nevor ropented having come at His call. You experienced that His word was truth; all His prombes He fulalled; He made yous partakers of the blesainzs and the foy of His love. Was not His wel. come most hearty, His pardon full and free. His love most sweet and preclous? You more than once, at your first coming to Him, had reason to ony. "The half was not told me."
And yet you have had to complain of disappointment: as time went on, your expectations were not realized. The blessings you once enfoyed were lost; the love and foy of your Arst meeting with your Savlour, instead of deepening, have become faint and feeble. And often you have wondered what the reason could be, that with such a Saviour, so mighty and so lov. ing. your experience of salvation ghould not have been a fuller one. The answer is very simple. You wandered from Him. The blessings He bestows are all connected with His come to Me," and are only to be enjoyed in close fellowship with
Himself. You elther did not fully understand, or did not rightly remember, that the call meant, "Come to Me to stay with Me," And yet this was in very deed His object and pur pose when first-He called you to Himself. It was not to refresh you for a few short hours after your con. version with the joy of His love and dellverance, and then to send you forth to wander in sadness and sin He had destined you to something bet bor than a short-lived blessednoses, to be enjoyed only in times of apectal eamestness and prayer, and then to pass away, as yoth had to return to those duties in which far the errenter part of life has to be spent No, in deed: He had prepared for yor in abling dwelling with Himeolt, where your whole life and every moment of it mifht be spent, where the work of your dally life-might be done and where all the while you mieht to an oving unbroken communton min Himsels, unbroken And
And observe espectally, it was not that He sald, "Come to me and ablde with Me ," but, "Ablde in Me." The th: lercourse was not only to be unbroken, but most intimate and complete. He opened His arms, to press our to His bosom; He ode od up all Hicome you there; He opis and love, and offered to take yor into its fellowshis, to make rou poe with Himselt: There wea wholly of meaning yon cathot yot reation His words: "abide tn Me: realize is Hs words: "ablde in Me."
And with no less earnestness than loan, had you bat not aed "did He pland, had you but noliced it, "Abilc facod you to come, did He beseectil


MORE and more the Ford car is looked upon by progressive farmers as necessary farm equipment, the same as the plow, the hay-rake, the drill, the mower, the harrow and other labor and time-saving machinery.
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## To Our Women Readers

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you to abide. Was it the fear of sin and its curse that first drew you? coming could, with all the blessings coming could, with all the blessings
flowing from it , only be confirmed and fully enjoyed on abiding in Him . Was it the longing to know and enjoy the Infinite Love that was calling you? the first coming gave but single drops to taste,-'tis only the abiding that can really satisfy the thirsty soul, and give to drink of the rivers of pleasure that are at His right hand. Was it the weary longing to be made free from the bondage of sin, to becume pure and holy, and so to find rest, the reat, of God for the soult this too can only be realized as you abide in Him,only abiding in Jesus gives rest in Him . Or if it was the hope of an inheritance in glory, and an everlasting home in the presence of the Infinite One: the true preparation for this, as well as its blessed foretaste in this life, are granted only to those who ablde in Him. In very truth, there is nothing that moved you to come, that does not plead wika thousandiold greater force: "Abide in Him." You abide. Whe would, after seaking the abide. Wha wouid, alter seeking the King's palace, be contant to stand in dwell in the King's presence, and share with Him in all the glory of His royal life?

And yet 1 tear that there are many who have indeed come to Jesus, and Who yot have mournfully to confess that they know but little of this blessad abiding in Him. With some the reason is, that they aever fully unthe Gaviour's call Wlth others, that though they heard the word, they did though they heard not know that such a life of abiding
fellowshis was possible, and indeed within their reach. Others will say that, though they did believe that such

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a life was posalbte, and soek af succeeded in discovering the secret of its attainment. And others, agaln, its attainment. And others, again,
alas! will confess that it is their own alas! will confess that it kept them from the enjoyment of the blessing When the Saviour would have kept them, they were not found ready to stay; they were not prepared to give uij everything, and always, only, wholly to abide in Jesus.
I know how many, and, to the young believer, how difficult, the questions are which suggest themselves in connection with it. There is eapecially the question, with its various aspects. as to the possibility, in the midast of wearylng work and continual distrac tion, of keeping up, or rather belag kept in, the ablding communion. to not undertake to remove all dirficulties; this Jesus Christ Himself alone must do by His Holy Spirit. Bu what I would fain by the grace of God be permitted to do is, to repea day by day the Master's bleesed connand, "Ablde in Me, until it ente the heart and find a place there, no more to be forgotten or neglected. would fain that in the light of Holy Scripture we should meditate on its meaning, until the understanding prehend something of what it offers prehend som.
and expects.
Let us set ourselves in quiet trust before Him, waiting to hear Hia holy mightier than the storm that rend the rocks,-breathing its quickening spirit within us, as He spents: "Ablde in Me." The soul that truly hear in Me." The soul that truly hears ceives with the word the power to a cept and to hold the bleseing He of cept
fers.

Another Two-in-One Invention H ow many of our busy Red Cross workers are tamillar with the art of knitting two socks at once? Yes, it sounds strange and when we heard of it first, it really did sound impossible. We were out spend an evening not long ago, alons besy lntiting, and one of the youns basy kmiting, and one of tae youn ghe 14 not know just how it workel She did not know just how it worked a patr of socks on the samie needles. Since then we have gotten the direc since then we have gotten the dire
tions and are passing them along tions and are passing them along Our Women Foik. The method, we und and, was invented in sydney 50,0 ct pairs of socks a month for the Britisis Relief. After the knitters learned this new method, they were learned this new method, they wer
able to turn out 76.000 pairs in month. Here are the directions Use double yarn, one for each so The purling for the top of the socks is knitted separately. When one is fip fahed, take ft off with a darning needle on to a feavy cord. When the other is finished sllp the first one inside the second, right sides together, and wit the knitting needle take up from firs one ap 1 then the other, aiternatiog, be sinning with the first stitch from the ueedle and ending with the last stit from the one on the eord. Hold the sock toward you, purling the ftit stitch which is on the sook that was on the needle and knitting the second stitch from the one that was on the cord; proceed with firnt parl, then knit, holding the thread over the first finger for purling and over the second finger for knitting and you will soon acquire $\pi$ rhythm.
When the heel is reached, take off as in any sook. As the heel is farned always purl the one next to you aad knit the other. To narrow take firs and third stitch, purl them and slip the needle out, which leaves one stitch from the opposite sock which you slip on to your needle and narrow lonitting. There is no slip and bind in this sock. When finlshed sils
the seedles out and take ap your app
arate socks aud bind never put your threas keep it towards you as ing back on your heel. The great advantage exactly the zame size consilered tiat many in Red Cross woik spt of time changing toes tiem smooth and the fivantage ls worth not that after knitting three In this way, one will
as if knitting the sock

Some Aviation E $\mathbf{T V}{ }^{\mathrm{E}}$ have recelved lotter from Mr . W lotter from Mr. int up aviation work it Part of his letter read. flying here and go next flying here and co
with fast machines. hours' instruction in 1 started up alone. Latas thy firet day up alone three hours required t every minute of the tim is splendid to feel tha alone and have full c machine. I flew about the three hours, comir tor more petrol

I am sending a pos


Cadet Harry $\mathrm{H}_{1}$ Thin lilustration la repro hons him standing by a
ag with here, I crasi particular one shown in lew days after the pictur smavhed the propelier ithout ascratch mysel urn on the ground wher ag too fast and the rouldn't stand the B crumpled up, the wheels through the bottom plan do the I Want ighest 1 have been up reet. There is the finest sible up above the cloud ou can see in every dir injig on this makes a ure. The machine I hay $i$ not capable of more ti ith tour, unless it is a 5 m.ph. The next mach fy will be an Avro, 0 to $100 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. I have loop, do spinning, nose dI all the rest of these 1 ased in aerlal fighting. a scouts after that so lenty of excitement an You get all the fasteat though and usually fly
have elther three or fo
rate socks aud कind off. In purling ever put your thread over-always keep it towarts you as
The great advantage in following fis method is that both socks will be exactly the came size and when it is considered tiat many womon engaged In Red Cross woth spend o grast deal of time changing toes and making ti:cm smooth and the same size, this Livantage ts worth noting. It is satic that after knitting three pairs of socks in thls way, one will be as efficient as if knitting the socks singly.

## Some Aviation Experiences

WV have recelved an interesting W Letier from Mr. H. Hastle, a ins up aviation work in London, Eng. Part of his letter reads as follows: Part of completed my elementary fiylug here and go next to a squadron with fast machines. I had three bours' instruction in the air before I started up alone. Last Monday wan tuy first day up alone and I did the three hours required to pass out of here. I got along fine and enjoyed every minute of the time I was up. It is splendid to feel that you are up alone and have full control of the machine. I flew about 150 miles in the three hours, coming down once for more petrol and landing back where 1 started.
"I am sending a postcard showing the type of machine I have been fly-


## Cadet Harry Hastie.

This illustration is reproduced from a
anap sent to to by Cadet Fiartie, and phows him standing by a machine which

Ing with here, I crashed with the particular one shown in the picture a ferf days after the pleture was taken. smarhed the propeller, under carrlaze and a few struts, but came out without a scratch myself. I tried to turn on the ground when I was taxt lag too fast and the underearriage wouldn't stand the strain so it crumpled up, the wheels coming right through the bottom plane.
"I like flying very much; the more do the more I want to to more himhest I have been up yet is The teft. There is the finest scenery poor sllole up above the clouds. As far as you can see in every direction, there is a sea of milk-white foam, The sum thining on this makes a beautiful ple ture. The machine I have been untig is not capable of more than 50 milies in not cap, unless it is than 50 miles an hour, unless it is a down wind, $65 \mathrm{~m} . \mathrm{ph}$. The next machine I exper to fiy wll be an Ayro, speed aboct on to will be an Avro, speed about onp to apinning, hose to learn to lop, do splaning, aose dives, roll and sed in serlal Aghting. I am stants ined in aerial fighting. I am going on scouts after that so that means Yout get exl the figent and fighting. You get all the fastent machines (yougt and usually fly alone. You thave elther three or four maey me

Juns to protect you, which you handle Our latest scouts have a speed of 140 to $150 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. so there isn't much use of anyone chasing you unless they have a faster machine."

## HOME CLUB

## Men Not to be Blamed

ISEE by "Aunt Greta's" recent letter to the Home Club that she aska the question, "Who decides what we shall eat"" and claims that the men do, Let "Aunt Greta" or any other woman get out and do a man's work at chores or following the team, or working in the hay fleld as I do, and she will say that the men must have meat, eggs and all these things to keep up their strength. They noed
It as much as the men in the trenches It as much as the men in the trenches as they work as hard tor it.
It is all right for women who just have housework to do, and perhaps have the assistance of the men to do part of that, to talk of some light diet for a man, but let the woman get and and forthe soll, work at the hay want three sood 1 believe she will want three good hearty meals and a seldom get then toe, waich the men has no one but herself , woman who get a meal after being ou go in and get a meal after being out in the field, has to have meat, eggs and such thim a woman and prepare quickly. men's work on the form all kinds of men's work on tharm, but I don't the - belong to women consider that meet a great many agents and . We strangers when at don't want to be asked for a and tobacco, so I wear aprong a chew of good hearty meals a day and earee with this ourlahing food my heven is giving wit Woman was heotit tended for such Koman was not insearcity of help makey it, but the as we have hur farms in necessary to produce or we will po mueh in elll bo under
sever did a hard day's people who and what the farmer shall on eatigs are told that We must produce. We are told that we must produce, must work is a plesure, etc., that all this ry is a fine place in which to lis The only way the in which to live ine place to the in is through los hour, hard out clothes and other pleasures whit out elotheonle enfoy I ownspeople enjoy. I would say, let these women who take so long in hinking up menus so that food may ee saved, to get out and do some and the ollpping wet advice to burn and the clipping which I am enclosing voices my sentiments, so I will send t along
"The farmer gets more good advice than any man beneath the sun; the magazines would treat him nice. 30 tell him once, and tell him twice how all his duties should be done. And lecturers with bulging brows in country schools lay down the law; they tell him how to groom hls cows, and how to raise blue ribbon sowa by feeding artichokes and straw. The editors of weekly sheets, who never punched a span of mules, sit in their chairs with leather seats, and tell him how to raise hls beets, and for his Euldance lay down rules. The men pursuing other trades, we all assume, know what to do; no man the merChant prince upbraids, or chldes the lawyer till he fades, or to the plumber hands a few. The sexton he can dig h grave, we do not stop to tell him how, or show the barber how to shave,
or tell the tightwad how to save; the dairyman can millk his cow. But every man in town belleves no husbandman knows how to farm; and so We criticize his sheaves, and tell him how to shear his beeves, and treat the old mare for the heaves, and bore him til he has the peeves, and to his shoulders roll his aleeves, and tries to do us deadly harm."-"A Mannish Woman."

## GILLETT'S LYE



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 cans- Aap the Comort LyeCREAM SEPARATOR "Sanitary King"




 King Separator Works Of Canada BRIDGEBURG, ONT.


Keep the Home Sweet and Clean with a KEYSTONE Combination

## Vacuum Sweeper

A carpel-rweeper and vacuun
deaner all in one. There will bn
no need of yearly or half-yearly no need of yearly or half-yearis
carpet beating "bees", if you use a Keystone. The dust and dirt in
completely removed every time you sweob-not just once or twice
a year. And there is no dusting
 Vacuum*nweepers absofute)

## FREE TO YOU

Junt tell a few of your neigh-
hors about Farm and Dalry. Fiet bors about Farm and Dairy, Get
their subseriptions at $\$ 1.00 \mathrm{a}$ year
each. Send ui elght new subeach. Send us elght new sub-
seriptions and we will send you the sweeper at once, FREE of all
cost to you. Try for those nubseriptions to-day and see how easy
it is. Get them by telephione or
personal vialt and send them to:

## The Circulation Department FARM AND DAIRY, <br> PETERBORO,

Silks Taking the Place of Wool


$\mathrm{O}^{\mathrm{N}}$ accourt of the mill berase of wool: and dremes and wind come chiefy in dark tor clotuine will probibly not be noticed so much thiy spring and summer ns it
will bs next fall and winter, for after all, no material looks quite so mmart and in in that as a rule creases drop about of
it quickly which is not the case with many of the other materials. case with
Much hand work on the slouses is thown this geason. Although we hav bsen advised not to uae any more wool
inan poer be wool embroidery is still
high in favor On many of han poe bee, wool embroidery is still
high in favor. On many of the aheer
(ieorgette b'ounes a little deikn worked Ceorgette b'ouses a little deaign worked
with wool and beads adds much to the dainty appearance Some of the simplest old-fastioned embroidery ntitches are
shown and very little expenitye hace is being und Dedigners are trying very hard to introduce high collars again and
jabots are being worn with coats and jubta. A high collar really adds amartnesi trpecially if one has a long siender neck, but the lower styles are so mueh more
comfortable, it is doubtfol if we will go
back to high coliars during warm sum.
 243-244-Lady's Costume Overskirt:
or draperies are still with us as will be noted by the style of skirt whown here-
with. of course, if preferred, this dress with, of course, if preferred, this drese
might bs made up omiting the overskitit
or tumic. The blouse is neatly conatruct. ed with the spuare repening at neek and nwo poitterns, 10 cents for sach. The
 nches waist measure. lithe dress for summer wear? it looks
very cool and comforiabe ityle of sletve. alvo the unigue trimming 12 years.
2175 Cirl's Dreas Another dres which
is quite unumual in denimi in here shown. is quite unuaual in denign in here shown,
ets on either side of the front and back.
fers, toi, the nleeves are ahort and fulli. Four sizes: 4 , 6, 8, and 10 years
2a3s-A Good 'sport's Outht. The oldyear for which moing to ba tabsoed thile
many of our young girls year for which many of our young sirls
will be very thankful, A middy is to comfortable and eaily ylippid on and
off. This style is quile nimple, the poc-
kets being the only trimming. Four aires $14,16,18$ and 20 years.
$202,-1,4)^{2}$ If
ona Lady's Apran--Now is the time all the aprons and working dresses made
up for summer. The style here shown is a complete coverall and in very warm
weather might be uned as a working dreas an Howould be very cool and comortable. A large pocket on either alde
of the front will bo found waeful at well
is ornamental bour fires: small, mediun, large ana extra large. 248 -A Popular Seasonable Style. How
does this faeket appeal to our home dressydoes this jacket appeal to our bolne dresus
maker. if one of the popular styles this spring, It may be fanhloned from material, fike the skitr, to be worn over
bloues, of various styles. As will be noted there are no sleeves in this jacket. The nhawt collar is one of the new collar cyles also which add to the coot-like
eppearance of this outh. Four tisest hual, $x z-34$ : medium. $36-38$; large, $40-42$,
and extra large. $44-46$ lichen bait meas-2430-GirPs Dress-We are thowing guite a large variety of chidiren'A styley
from which to make a selection and this one is unique and quite gretty, to follown one hs unigue and quite gretiy 1 follows
the high-waisted efrect Elther lons or
short sleeves may bo utilised. Four slises:
 man who is looking for a very simple and easily construeted house dress, the one any who sire not secustomed to wearing low-necked dreases, the low comfortible collar should appeal as quite practical.
Seven sizes: 14 to 46 inches buat measure. When gending in your order for patterns, don't forget to enclone an extra 10
centiof you winh to take advantake of our
Pattern Catalogue offer.

## The Makers' Corner

$\begin{aligned} & \text { Bufter and Cheose Makers are in. } \\ & \text { vited to }\end{aligned}$
depatiment, to ask questions on
slon.

Shrinkage in Creamery Butter Prof. H. H. Dean, O.A.C., Guelph. T HE question of allowance for and prints is an important one at the present time, owing to the high price of butter. The manufacturer more weight than is necesesry, whll the buyer insists on, and righily so receiving full weight of butter paid tor. As much of the creamery "solids" goes into cold storage paeked in 56 tbs boxes, where it is held for some time, the weight of butter necessary to place in each package in order to have it hold out welght" when taken from atorage, is a very important one.
Tests made during the season of 1917 show that the loss per box on pasteurized cream butter, salted three per cent., with 1.45 per cent. in the finished butter, and hold for two moniths at a temperature of about 35 deg. F., was but one-quarter of a mound pound. Raw cream butter, salted sis per cant., and haring 2.78 per cent alt in the finished butter, lost onehalf pound per box in two months, and areequarters of a pound in three months.
These results show that lightiy sale d butter made from pasteurized cream, should hold out weight at the ad of three months in storage if $56 \%$ los. of butter are packed in the box when made. Heavily salted butter need more butter to hold their weight. Efficiency of Machine Printers.
A number of creamerymen who cater to the print butter trade, are now using machise printers. These are of vary. ing styios. The caief advantages of machine prinilag over hand printing so far as uniformity in welshts of individual prints goes, there appeari to be quite as much variation as when the hand printer is used. Teste were made on two ninety-poind boses cut into printe with a machine. In the first box cut, there were twelve pritita exactly sixteen ounces In weight. The remainder of the prints saried from 9.32 of an ounce too light, to 24.32 of an ounce over a pous. In the other box, the varis. tions were from $23-32$ of an ounce too little, to $20-32$ of an ounce over the required sixteen ounces. In this bor there were but five prints of erect weight. If we allow $4-32$ or $1 / 4$ of an ounce as the maximum variation each way, there were 49 printa out
of 90 in the first box outalde the maxt num, and 40 in the second the maximam, and 50 per cent of the brint prore outhide the limils set. In the first box, 63 prints were over, and 15 were under 16 ounces in weight, and It were exactly one pound of the mecond bor. is were over. 40 were under, and 7 were exactly sixteen ounces.
If we take the totals of the plus and minus prints on the first box, we find the plais's, or weights of prints in excess of 16 ounces, equals 516 thirtysecond ounces, and the minus prints (ander 16 oz .) equal 82. The difference between the plus's and the minus's is $434 \cdot 32$, or a little over
thirteen ounces on ninety primts. In thirteen ounces on ninety prints. In
the second box the plua's equal 312 the second box the plua's equal 312 thet of 87.92 , or about 2.7 ounces. In this case, the plus and minus printa more searly balance each other, oreliminary tests may be regarded as work is needed and much more cluslons may be drawn However it would seem as if we may exper, coasiderable variation in weleht of Mints of butter made by machines.

The pase of this particular machine, hottom row along one side and on the or than those cut in other parts of the box: This could be remedied by fore even spacing of the wires used for cutting the butter.

Commission Considering Cheese Prices
T HE finitial meeting of the Dairy Produce Commission was held old Cheese Commisslon, in Montreal which organization the new commis sion is to replace. Both the person nel and the scope of the commisation have been enlarged. The members of the commission for 1918 -are as fol lows:
Expert chairman of the Allied Provision deputy, Mr. Assion, New York; or hls ander, of Montreal: Mr, J. A. Ruddek Dairy Commissfoner, Ottawa; Dr. Jas W. Robertion, representing the Call ada Food Board; Mr. Jas, Donaldson, president, Dairymen's Assoclation of Western Ontario, Atwood, Ont.; and Mr. A. Gerin, of Costicnok, Que, representing the producers.
pres cnted tho Luperial soard of Trade.


When'Writing Mention Farm and Dairy


## RENNIES Win the SEEDS

EIVERY man, woman and child must help make the home garden produce vegetable food this year-for food is scarce and labor scarcer. The earlier your crop is ready the better for yourself and also the nation. We have carefully considered this condition, and assembled a special
collection of Renniecs Seedid- 0 meet it Our
Barly Collection or Renion will give you rapld production in volume.

## Early Collection

 BEET. Zativ Etrm Blod. CABAGE, Extm Bros. CARzor, Eary samat CUELTM:


 SOc Prepald


Flower Seed Collection


## THE WILLIAM RREMNTHE

 Compan 5 LIMITED TORONTO
## 2 CHOICE SIRES








THEY ARE CHOCE ONES-PRICED RICHT.
COUGHLIN BROTHERS, R.R. No.9, PETERBORO, ONT.

## EDXARDSBURG GLUTEN FEED <br> $23 \%$ PROTEIN gUARANTEED

is the ideal feed for milk production.
$\mathrm{T}^{\mathrm{HE}}$ mere fect that it costa a litite more than Bran, does not The mere fhet that it costs a pirtie more than Bran, does not cheaper than Bran-it is about the cheapest feed you can give. the cows-because it increases the mill yield so much.

We have a little book that tello about Edwardsbarg Gluten Feed-what it does and how it makes money for you - write for a copy, free.

THE OANADA STARCH CO., LIMITED
WORKS AT GARDINAL, BRANTFORB, PORT WILLAM

Under the new arrangement the commission represents the British Ministry of Food through the Allied Prov1slon Fxport Commission, located in New York. The Ministry of Food is prepared, through these channels, to purchase the exportable starpus of Canadian cheese, butter and condensed milk, of the crop of 1918. By an arrangement with the United States Food Administrator, it will be possibla manner as to insure some parity of prices.
The price of cheese for 1918 was the subject of discussion at the opening meeting. Mr. Owen Smith, chairman of the Allied Provision Export Commission, and Mr. Mills of the same commission, who were present heard
what the producers' representatives what the producers' representatives
and other meimbers of the commission and other members of the commission
had to eay on that point, and have had to say on that point, and have
cabled these views to the Ministry of Food in order to secure the necessary authority to make definite arrangements to purchabected that an under-
1918 . It is expecter standing will be reached in the course of a few days, when further announcement will be made.

Standard Feed for Live Stock
A RBOENT report issued by the $A$ ©ntario Organisation of Reinteresting reading for Ontario farmers who buy feed-and this includes the majority. It is as collows:
Confronted with the imperative need of securing a standard feed for hogs and cattle next season, the Agri-

Renources Committee yesterday endorsed certain proposals recommended by a sub-committee, which has been securtag information during the past fow weeks. The soleme, as outlined, is that a compound feed will be put on the market. It will include such conce Atrates as corn, gluten,
bran, mle Alings, brewers' grains, cot ton seed and oil cake. This food will be compounded into two feeds, one for hogs and the other for cattle. It will be sold direct to the farmers through farmers' clubs, at a price just sin In excess of cost, to provide
easonable proft to the manufac
"Nothing definite has bean "Nothing definite has bsen decldof by the committee as to the amount of feed to be secured, but the minimum quantity will be 1,000 cars. A Millers' Association, and three or tour mills will be selected at vartous polnt in the province, which will uaderiake to manufacture this feed under Gov ernment supervision. The fnspectors provided by the Governmont will ay sure the farmers that the feed is up to standard.
Food Board the committee the Canada Food Board the committee will eb deavor to locate supplies of such concentrates in the United States, and at States Rallway Board to have them ehlpped Into Canada. In order to do this it will be necessary to take immedlate action and get the supplies Into the country during the summer months, in order that they may be available for distribution in the fall and used to relieve the feed situation
in the early winter. The commities

## A RARE BARGAIN



laningdale stock farm
Villa nova, ont
PLEABANT VIEW AYRSHIRES.
Touns oalven, elther nex; meveral from R. O. P. cowa; aleo a few bulle fit for servioe


## Bet 85 ihga April $18,1918$.

Is composed of Mosars. Assistant Deputy. Ministe
ture: F. C. Hart, of ture; E. C. Hart, Brach; A. College; Joseph Bre ford, and G. A. Gllesple

Keep Wheat Screc "The committes decide Assistance of the Dominu Agriculture in having an creenings. At present thee of what is known creenings, which inciud Wheat seed, are being sh the line under permit. In hortage of feed in Ca roughage screanings coul thls country. The higher ags are now being sold dian farmers
AD. TALK.
ATONE.
A FEW weeks ago there for ond reasoed or to thother
fone on one reason or another y
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Now, in caice there shoulc whe is not in needt of that a
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the originator. of the idea. The originator
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spoument in favor of stead
advertising is anything. we co Now, in cane any one wh
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ietion to
fered to, would draw spain to the fact that, whil
tilings in each which are appl ether, oone was written prim
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pondence, and the other fo who did. A prominent bree petty pood say, "I expeng, after
por tellows slack off for Idid not toil him that there th poing to slack off, and who market is summer sales. $H$ wide, and there'
room for all. Ansther room for all, Another promin
silf: of want my ad. Funning
whether I have anything to want the correspondence., it. and can use it as an oxoe
of outivating a tasto in prosy
ens for the kind of otuff Phav ers or the hind of stunt
wint to be in the game."
"A Constant Dorepping Stone". What has thig to to
tisingt Ask Henry Ford, tisingt Ask Henry Ford,
Wateh his advertiments in
Wairy, of any duther pubile Dairg, or any other public
reachins likety buyers. see ho
teging away, pegging away. Does he wi name from prominence during flauratively ambies right along, oummer
uiles or no sales. Nothing ver Ne, yet you see a littie bit of
in tome corner or another of publication yeu ohoose to pica
alse may bo gald of a host of arywry of the same class.
dive the publie appetitie time t
Ooss it pay them? Sous it pay thenf fie Apparent
They atill continue. the hat mafe theil continue. the hausehold. nies, Farm machinery, whethe Kit alls at prominent as thoir na nome in live stock matters. This brings up the quention
eontinue live stock advertising during the coming summer me
you want to have the oppertunh Ing up a corrospondonppertun! with, resders. Yes. Hy you wish to
meth your name, and the rep
yeur stock, right in theme your stock, right in a ine rep If you whish to be able not pulli
to slart in, "right off the bat ood sales, while the other foll
ting the ruat rubbed off hig etting his selling appanatus yes. If you widh to etiwten now and next fall, ye Wilit and for all the time, yeh.
MDVERTISEI ADVERTIERI AD
iA Congtant Dropplng nooke." Constant Advertiser Bul C. G. MeKiLlican,

Is composed of Mosars. C. F. Balley, Assietant Deputy Minister of Agricul. ture; V. C. Hart, of the Markets Brach; A. Lelteh of the Agriculford, and G. A. Gillespie of Peterboro.

Keep Wheat Screenings.
"The committee decided to ask the assistance of the Dominion Minister of Agriculture in having an investigation made fito the export of roughage acreenings, At present large quanth tias of What is known as roughage acreenings, which fncludes a lot of Fheat seed, are being shipped across
the line under permit. In view of the the line under permit. In view of the ahortage of feed in Canada, it is roughage screanings conld be kept in thls country. The higher grade screen-ings are now being sold to the Canadian farmers .

AD. TALK.
A CONSTANT DROPPING WEARS THE
A FEW weeks ago there appeared in for ane reased or to thother wreedere whe for one reason or another were not in a
position to bee eontinuous advertisers. Now, In caise there should be arts.
Now is not in need of that atdice, Now, is not in need of that advice, and ane
the same time has takson it toe much to the same time has taksin it too much to
hestr) in other words, if there is anyone heart; in other words, if there is anyone
who should be running a regular ad. in Farm and Dalry, and who has become imbued with the idea that he should quit
for a while, it is my intention to take tors opportuinity of diallusilining to take mind
of the idea. The originater of the proverb this opportunity of diallusioning his mind
of the ioe. The originater of the provert
which heads this articie, King solomion which heads this articie, King solomon,
ibelieve, certainly puts more meaning in those few words than i, euld express, If
I were to cram Farm and Dairy full of I were to cram Farm and Dairy full of ad. uik rom cover to cover. This same
proverb has been handed down through
the centuries, and used in many different forms, but through it ail it to as truth.
fut a saying to day as it over was. ful a saying to.day as it over was. Given argument in favor of steady persistent
advertising as anything, we could Iniagine. advertising as anything, we could Inistine.
Now, in cane any one who reads this. Now, in case any one who reads this dietion of the provious one already re-
ferred to, it would draw attention once ferred to, , would draw attention once
sapin to the fate that, while there are spain to the faot that, while there are
tings in each which are applleable to the other, one was writen promarity for the
man whe did not wish to handie sorrs man whe did not wish to handie corres. ponsence, and the ether for the man
whe did. $A$ prominent breder sald to
me the other day: hi expet me the other days ill expect to sald to some
pretty good selifing, after some of the retty good seling, after some of the
sthe fellows slack off for the summer? Iner not toll him that there were a whole.
int of our other advertisers who wis gof to slack off, and who would also be oharing the summer gales. However, the maom for all. Another prominent breed of ssifi in want my ad. ninnimg every breeder I watt the correspondenge. so sell or not, it, and can use if as ane excelient mandle of surtivating a taste in prospective means want to be in the gamp have to sell, ; "A Constant Drepping, Wears the
stone." What has this to do with adver.
tising? Ask Henry Ford watoh his advertisments, he can tell. Dasir, or any ather pubilioation and reaches likely buyers. spee how he that
peging, away, Does he with peging from prom, Does he withdraw his that he is not likely to make the months nouratively soeaking, the io salies. No, Ford
rambies ripht aleng, summer ales or no sales. Nothing very startimer
No, yef you see. a ilto No, yet you sees. A Nothing very startiling? pubiliestion you eheose to of almost any puicstion you eheose to plet tip. Thits
also may be sald of a host of ofter ad.
vertimer of the same vive the public appetitle tias. They don' goes it pay themf Apparently it stale. mage theip continue the habil. it has blith, Farm machinery, or Kitehen uton. ollo, as prominent as thoif names. This is what may be aceomplished by perslist.
ent advertising, and it worke fuet tho sume in live stock matters. furing the coming summier monthar along wo mant to have the oppertunity of keep. Ing up a conrovephdence whith y our fellow.
yruederi. Yes. if you wioh to be ready, with your name, in you wheh to be ready, the reputation of
your stock, right in a timalletion mernotock, right in a limelighe of prome of
 oond saies, while the other foliow making ling the rust rubbed off hio wow is get.
inetiong his seiling and atiling his, yes. II seilis apparatus property cyers who will want to plok up animale
now and next tall, yos alf yont to Mill to be in the game, for up hill, down MDVERTISE, ADVERTISEI ADVERTISE
"A Congtant Droping Wears the tane, "conmant Advertiser Bullds on a 4

Live Ge MeKILLICAN,
"An arrangement, whereby the farmers can secure seed in the apring rith loss difficulty, is suggested in a resolution which will be forwarded to the Ottawa authorities, It urges that an interior terminal elevator be es. tabliehed in Ontario, preferably near Toronto, as it is the centre of the province, in order that greater facllities may be afforded for storing seed grain. This would be a great advant
age to the grower. Such an elevator age to the grower. Such an elevator Is located in Quebec, and it supplies Provinces, with seed in the spring."

Bad Year Ahead in Forest Fires TCHE danger season for foreat fires is near at hand. Rapldly drying soil has left the old grass, brush, leaves, etc., in moet perilous condi-
tlon for starting fres.
An effort is being made by the fire rangers to keep down the forest losses succeed only if every camper carsfully extlagutahes hits camp-ire before leaving it, it every smoker refrains from tossing away burnt matches or tobaceo in or near a wood, and it settlers in the newly-opened districts guard their land-clearing fires with the utmost care. Settlers' fires continue to be the very worst source of torest conflagration, although campers and careloss smokens are close competitori.
"The fire rangers," says the Canadian Forestry Association, "want every good citizen to regard himself as a deputy ranger from now until

MAPLE LAWN STOCK FARMBuils from King Segls Alcartra
Spoftord, A son of the $\$ 50,000$ bull. Naw. $1,-11$ months old, from a $2 s-\mathrm{lb}$. co. $2,-14$ months old $\left.\begin{array}{c}\text { from a } \\ \text { daughter of Count Segis Welker }\end{array}\right)$ Pieterte, Who hat ive daughters that miked over 100 tha and averaged 30 Iba. buster
A few
breding. breeding. Write for prices and photos, or come Wm. H. Gough \& Sens, Blesentield. Ont.

SHEshyers SEEDS

## 1866

918

ORDER TO-DAY
$\qquad$ can rest assured of recelving nothing but the seedia the placing of an early order is absolutely of not recelved a copy of our catalogue, wrike to-day for one CORN onders of \$25 or more.
CORN
Seed corn now on hand-it ia Alfalfa, Ontario Variegated of excellent quality, fine and No. 2, almost No. i for Red Cob-Early Prince Charies No. I Timothy, extra No. (Would do as a subatituto for No purity Early Improved Leaming,
Cuaranteed 90 per cent. Guarantioed 90 per cent.
mination, por buakel.... mination, por bushel..... ger- No. 2600 Timothy, No......... Guaranteed 76
mination, per cent. ger.
per cishel.
pentucky .................. 5.25 CLovE ${ }^{\text {per }}$ and TiMol.
Climot $\mathrm{v}^{4.60}$ Govornment standard. No. 1 Red Clover ......... $\$ 24.00$ O.A.C. 21 Barley
No. Alsike
No. 2 Alsike, No. I for pur. 16.50 o. A. C. Barley, registered 2.45
 Sweet Clover, White Bios:- 13.00 Emmer
som .................... 16.00 Amber
We are tn the market for Rye Buckwheat, O. A. C. No. 3 Oats,
Bilver Hullid Buckwheat Eend samples.
Bags for Clover and Timothy

## GEO.KEITH \& SONS I24KINGST.E

EVERGREEN STOCK FARM
Registered Holsteins

## OFFERS

and ready BU1t, 16 months old, nicely marked, as much white as black, siater, siro's dam, and great sire's dam average over 31 Ibs. but days and over 100 ma milk in 1 day. A show bull and guaranteed right
A. E. HULET Bell Phone

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## Get a Frost \& Wood Mower

Over 80 years' experience with Canadian hay crops be. hind it-it won't fail you. It's a rusged, durable implementIt does ite work thoroughly-it will cut any crop you want to tackle. Its light draft is famous-due to Its superior materials, the perfect alignment of cutter bar, our special internal sear drive and splendid roller bearings. Knives conto clear an obstruction, raved to clear an obstruction, saving wear out entter bar. Handy levers give immediate, easy control.
 Qive your hay making machinery special attention, now. If you noed a mower, dump or side it right away, The Froge a Wood implements have a splendid reputation nearest Agent about


The Frost \& Wood Co. Cimited,
BMITH'S FALLS, ONT.

## FROST \& WOOD RAKES GIVE PERFECT SATISFACTION

Don't think all Rakes are Just alike-they're not. Frost \& Wood Rakes are superior in dosign, material and workmanship-that's their repu tation in the field. Teeth are of special quality, tempered steel Self-dumping by easy pressure on foot lever. Heavy angle steel frame guarantees rugged strength and years of steady service.

You need a copy of our latest eatalogue; Ask for it to-day.

## Sold in Wer'ern Onterio and <br> Western Canada by

## STOP! LOOK! LISTEN! <br>     <br> Major E. F. Osler, Prop., T. A. Dawson, Mgr. Lakeview Farms, Bronte, Ont.



- SPRUCEDALE FARM Offert For Salo

 or come younce themb sebringville station 1 mile.

STRATFORD, ONT.

## BROOKDALE STOCK FARM OFFERS

 one of the very best bulls of threat onear old coning in with frat ealif, and a boautiful heifer riaing one year. Here is a bargain for any one looking for
richly bred Hoistelne, youns, and from the best strin on arth. I am priefng richly bred Holstelne, young, and from the best strain on earth
the lot of flve females for fi00.06, louded at Philipsvilie Statlon.

WM. C. STEVENS
PHILLIPSVILLE, ONT.

## HERE'S A REAL ONE

His A four monthe oid grandson of Plus, Berg, the tormer sunny dale herd sire. dam and grand-dam have averagod over 100 ibit milik in one day. Dam milked

R. J. VALENTINE

ODESSA, ONT.

> Kisk. 500 each
> milton, ontario.

## R. O. P. CHAMPIONS

Acootises to. the R. O. P. Toports a Jersey cow produced more butter fat auring last year thas any other com of any other broed, Wo have now of these sre deaely related to the champion butter cow mentioned above
B. H. BULL A SON,
BRAMPTON, ONT.



HEAVES SUREIIV


$\mathrm{M}^{\text {R. T. } Q . \text { arbag, of Ingernoll, was }}$ VI a happy man on the evening of Wednesday, April 10, when he totalsale of his 50 head of registored Holateins sale of his that head of rekistored Hoiatoing
held on that day, and found that they held on that day, and found that they
netted him conalderably over thi,000, an netted him considerably over pil,000, an
averake of nearly 2200 all told. With the posible exception of the Allison sale and
 succesilus ave another throot of the wisdom
 temates that were noted for consututution,
breeding, and persiatent production. In


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 one year, averaged $\$ 140$.
There were no phenomenal prices, the
 wale The following is a list of the animals
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 Hy00, W. N. Boiton, Ingersoll: Dewrod

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another cabana record.
$\mathrm{E}^{\text {DrFon, Jarm and Dairy,-l mm ad- }}$ E. vised through prelliminary reports Apple Korndylue Pontiac 251934 has brokon the record for tat production in the senior three-year clask of the 7 -day diVision, by producing in seven consecu-
tive dayn 651.8 ths. milk containing 33.55 Ibe fat, She frethened at the age of 3
 she Way bred by Mr. E H Doiliar, Heu.



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sumt.

Cutter's Grrm Free Bhaklice Filtate Badacke Tissule Agyressin The New, Safe and Efficient Agents for Protecting Calves from Blackleg.
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"California's Favorite" for nearly 20 years
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Aprit $18, \frac{4}{1918}$.

## PERTH HOLSTEIN aREEDE ING.

 THe annual meeting of thetrit Holsteln Breaters
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ackikin.
 Breeding,
THE DAM "shown
POSCH DEKOL, abou 700 lbs , butter in yeal
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per week. Topay also per week. Topay aiso years. Produce
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PERTH HOLSTEIN AREEDERS MEET.
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officers were re-locted for the coming oflcer and prospecta look briaht for a most




 D. Bovdi Mornithto Norh Easthope. sice s.
RECORDS AT VILLA VIEW FARM. $\mathrm{A}^{\text {phoGNGT }}$ BROS, of sebringville, Ah work in their herd at villa view in the rear rentiy they state: vila, Ylew has


 xysge Notheriand Ormmby made 20.68
 botter for seven days and 79.91 los, for
at days. Lady Aagme Netherland at six years made ${ }^{27.29} \mathrm{lb3}$ of butter from 47
bs of milk. Vila. View Axle Dekol at hree years has 2.63 of butter and 519.9
lhe of millk. K. S. A. C. Tidy Dekol at it of mima, K. $\mathrm{K}, \mathrm{A}, \mathrm{C}$. Thdy Dekol a
months made 17,3 ibs. of butter, 353,2 of of milk. K. S. W. Ormiby, at 27 ber dom, Dainy Ormsby Las made 31.48
ibs of butter from $\delta 01.5$ lbs. of milik in aeven daya. Vuta Vlow Aaggle DeKol
at three years made 21.11 of batter and fit. 3 of milk: her dam, Laura Nethertind Aagie Just inished with of oipsy Queen of Brigden at elikht years, made 12.00 ibs.
of butter and 534.3 bis. of milk. Witzyde Evangeline Dekol made 31 lbs . of butter
and $6 i, 1$ of milk for neven days, milking
 trie years and over made the good aver-
afe of a7.83 ibs. of butter for geven days.
The first three daushters of King Segtis Alcarta Calamity made averafe records
 insor

## MORNINGSIDE HOLSTEINS

## Study this combination of

 Breeding, Production and ConformationTHE DAM "shown below"-TOPSY WAYNE POSCH DEKOL, about 20,000 tbs, milk and over 709 lbs , butter in year, R.O.P., freshened again 6 weeks from completing test (inspector's report not yet issued). 3 Generations of Producers
Her dam, JEMINA wayne pIETERTJE DEHer dam, JEMINA WAYNE PIETERTJE DE-
KOL, has given 86 lbs, milk in 2 milkings and has Kol, has given 86 ibs, mik in 2 milkings and has
sisters with official records from 26 to 28 lbs . sisters with official records from 26 to 28 lbs.
per week. Topsy also has a daughter who has an per week. Topsy also has a daughter who has an
R.O.P. record of 16,000 fbs. mill and 735 lbs . but. Ror at 2 years.

She Produces and Reproduces.


Topay Wayne Posch Dekol

## His Dam and Gd-Dam

Have Nearly

## 50,000 lbs. Milk

in One Year

That's the great milk-record backing on the dam's side only of the great sire DeKol Mutual Count
that we have selected from the great Brethen sale to head our big herd at Idylwilde Farm.

## DeKol Mutual Count

is the only bull in Canada whose dam and sire's dam have a combined yearly record of nearly tuat Countess, as a junior three-year-old, made 20,679 lbs. of milk in R. O. P. (a worids reocrd when made).
she is niso the dam of Hillereat K. F. Countens, who at She is nilse the dam of Hillcreat $\mathbf{K}$. P. Countens, who at Rauwerm count Dekol Lady Pauline, when over 29,000 bi.
 have gone over 100 lbs. in a day. He whose daughter: on the sire' side to \#urkeyje Hengereved the first 20,000 -
 of Count's daughters sold at the Brethen saie ior ower
$\{1,000$.
DEKOL MUTUAL COUNT is a combination of the greatest 20,000 -1b. blood in canada. If you desire such combination in your herd, make your plans now to secure tew approved temaies for service to thim for the present seanson. Write us about service fees or about
a future sire by him from our herd.

## 


 milk in one is full brother to May Eicho, 150 lbs. milk and butter chanuplon of the warld, He is a
brother to Hillerest May Echo Countess, 30.1 ibs. bother to Hillerest May Echo Countens 30.1 lbs.
butter at $31 \%$ years, who sold at the Hillerest dispersion for fa, yeors, and also to soteral othera of the
top notehers at that sole. HE IS NOW FOR SALE
An I have 20 of his deughters in my herd, I am forced to sell him siderably since the photo was taken. He in fust in his out conshould make history, I want him to ko into good hands. Think THE CALF
and dem shown herewth. Naturally the ohoto does birth-from sire and dem shown herewth. Naturatly the photo does not do him jus.
tice- tout he is no full of energy that he Just elamply couldn't sit still
long enourh to have hls pleture takel long engush to have his pleture taken.
Thats the sort of bull that has prepotency-that's the bull that want to buy to head that cholee herd of yours,
BUY HIM.

## For Particulars Write or Phone

P.B. NELSON

Campbellford . . Ontario

## Wonderful Individuality <br> combinged weth the Worla'g greatent milk and butter recorin, makes Pre-   write owite for hitextendid podimree and ny price on him. Markingi    <br> COME AND SEE HIM <br> W. G. Bailey, Oak Park Stock Farm, Paris, Ont.

## One 2 -yearold bull; 1 bull 18 months, out of a $231 / 2 \mathrm{tb}$. 3 -year-old R. M. Holtby <br> R.R. No. <br> Port Perry, O at

 DAM-A daughter of Sir May Dai


 delivered in Ontario.

BLOOMFIELD, ONT.

## Rennies War Time Production Seeds

TlHE farmer will be well advised who makes certain of a good crop of potatoes. In selecting your seed potatoes, get Rennie's-the best. We have secured a supply of good seed potatoes absolutely free from disease ; but the supply is limited and we advise you to send your order right away

## Seed Potatoes

Earliest Sis Weelco-The ohlo trpo: very ilmiler to potato now

Improved Early Ohio-The earilien, hary, yleleling, potato to the merhet tod
Irish Cobbler-Cherky, white-metted esrigy potato of splendid cuality;

Extra Early Eurelca-An extraterily wariety prodetige Ane lurgy tubert of a merteped osiong form, thek throush and with few ever Thie
Green Mountrin- Tt eropplas, gelitioe are phenomenal, and wo

 The finh ho Ane mined, pryaid, rise.


When buying from dealers inaiat on Rennie's Seeda.


Some Advertisers who blame advertising for poor business never think of Mora-Attend faithfully to all correapondence.


THBARE is one of our Ontarto breeders 1 of rood Holateins who fully apprealent backed sile ponalble at the head of
his herd. Tinte is Jas. Seymeur \& Son his herd. Thise is Jas. Seymour o Son,
of hoo. Ontaria. The Seymour herd st
Idywide runs yery strone in Pontic
Echo Blood, to popular ever Ontarlo and Echo Blood, to popular strone in Pontiac
Wontharlo and
has eaty oo for the many recerthe that it has en
Mr
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At the bie Brechen mie in Toranto list At the bie Brethen seie in Toronso luat
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 and type but he haa in general make-ap
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producer of record makers. The fre

 mire at the loywhide form is the grand-
son of Dutchand Sir Hengerveld Maple.
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 pave made over 100 iby maty, that is whis M. C. is a brother on hin sire' i side, also
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$\mathbf{2 0 , 0 0 0 - \mathrm { B }}$ cow in the Dominulon. his groatest strensth, however, is on Tutual Oountes, who as a junior B-year:

 at 2 yers. old. DeKol Whatual Countes. is.
out of Reurwerd Count DeKol Lady Peul

 granddam tofever have produced and
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Freat uthiy value of Holetelns. breat utility value of Holeteins
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their herd as snnounced eloewhers in his issue of Farm and Dairy. He is now
hast seven years old and has proved hims pelf a producer of excellent procked and his elres well be tn ereet demend for these
Who want the righ Jind of ptility bock-
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hle serviced widle they are available.

The Success of Your Sale YOUR CHOICE OF THE RIGNT A third of a centur's experience has
meco us mpecialits in Folecia lore.
Write uil

## F. H. McCullough \& Sou

 Live Stock Auctioneers.EPWORTH FARM, NAVAN,

for MILK, BUTTER, CHELSE, VEAL

 ${ }^{\mathrm{THON}} \mathbf{w}$. st. Geer

For Quick Sale
Pure bred Holateln Hull calves 3,700-1/2 iow. and fron
 JAS MOORE, R.R. 1, Almente, Ont.


## For Sale--

Jersey catt'le, bred in the purple. Imported and Canadian bred Clydesdales.
Also, two large farms, with modera buildings.
BALDWIN'S REGISTERED, Coaticook,

YOU CIIT OUT OUT ! !mana
but you can clean them off promptly mitl



## MARKET

Toronto, april is T mokik and Ahiry prod ducerof have decided to a ell
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## MARKET REVIEW AND FORECAST



## AVONDALE FARM OFFERS

 "Kine Also A Erand youns buill born oct. 6, 1917, 11 ight in eolor, sired by

H. LYNN,

Avondale Farm,
Brockville, Ont.
yorm Four 30 lb . Cows this Winter at VILLA VIEW 표
We have for sale the hest 1 lot of bull calves that wo have ever been
able to offer from dmmi with records up to 28.73 may of tem good prospects for 33 liss. Alao one bull ready for service fom a is-ib tood year-oid suy your next buil where 30-ib. cown are being de
ARBOGAST BROTHERS
SEBRINGVILLE, ONT

SIRE- Francy stde Haice bull fit for service.
IRE-Francy ${ }^{3}$ rdis. Hartog 2nd, whose two neareat dams average 31.37 lbs . butter
 day, 96.8 lbs.
P. SMITH.

Write for Description and Price.
STRATFORD, ONT.

## SUNNYBROOK FARM HOLSTEINS

 Jos. Kilgour - Eglinton P.O. - North Toronto

|  <br> No. 2 Gired by brother to May Beho Bylvia and from a 19,600 Ibs. R.O.P, dam. brother to May Eeho Bylvia, from, R.O.P. Dams, <br> (A tew eholice grado cows for nale). <br> Write or phane. <br> GLENCOE STOCK FARM, <br> GEO. W, ANDERSON, <br> BOX 182 - CAMPBELLFORD, ONT. |
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## SUNNYSIDE STOCK FARM HOLSTEINS



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## CHOICE BULLS READY FOR SERVICE <br>   



## mam LYNDALE OFFERINGS

##  Na . 2 - brother montha old mon of MAY SYLVIA PONTLAC CORNUCOPLA  BROWN BROTHERS <br> LYN, ONTARIO

 | 2 to 8 mo |
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| P. S. AR |

A. 2, mitehell, Ontario sebring ville sta

"The food wanted by mankind does not exist.
The word 'shortage' is not strong enough.
The whole world is up against a nasty thing, familiar to the people of India, called 'famine.'",

LORD RHONDDA,
Britain's Food Controller

One year ago, only the enemy was on rations.
To-day, Great Britain, France and Italy are on rations.
To-day, Germany controls the wheat lands of Roumania, Russia, Poland and Ukrania.

To-day, the shadows of hunger, famine, disease and death hang over the Allies.

Upon the 1918 crop from Canada and the United States depends the fate of the democratic peoples of the world.

If that crop is sufficient the Allies can be fed.
If that crop is not sufficient the Allies may have to accept a German peace.

We know that farmers have obstacles and difficulties to overcome---but the labour shortage this year is not as great as it was last year. If you need help to produce more food communicate with your District Representative of the Department of Agriculture, or the Public Employment Bureau in Toronto, Hamilton, London or Ottawa.

# Lack of Food---threatens the Battle Line 

