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# The Farmer's Advocate and PERsEVERE suctero Home Magazine establshed succeo Home Magazine 1866 

## LII.

LONDON, ONTARIO, JULY 5, 1917.

## EDITORIAL.

## Daylight saving does not help the farmer.

## There should be some small specialty on every

 mixed farm.It doesn't seem logical to take the men and leave the money untouched.

The Huns have been •hanging the Poles and now the latter are organizing to pole the Huns.

We get hundreds of questions on holidays for hired men, but never one on holidays for the farmer.

The food controller in Great Britain puts food pro duction on the same level in importance as fighting. A

The United States is going to send 100,000 aeroplanes to France and no one has yet suggested "that Uncle Sam was "Up in the Air.

Some call sweet clover a weed. We have just harvested a field of it at Weldwood and it was about the most profitable weed crop we have seen in a long time.

Canada is fifty years old and quite a robust youngster notwithstanding a few doses of unpleasant political pills which from time to time cause slight derangements of digestion.

A certain section, or sections, of Canada may have had unfair treatment in enlistment, but that should be no excuse for objecting to a fair method by which to
back up our heroes now. back up our heroes now.

It was gratifying to hear a member of Parliament state that all the brains of the House were not on the front benches. The so-called back-benchers have a duty to perform in helping to bring order out of chaos some of the front-benchers have succeeded in mixing up.

Some politicians are now attempting to reassure Quebec as hard as it will other Provinces all not hit understand that an unfair conscription will be resented much more strongly than an Act which applies to all men and all resources on a fair basis.

People seem to forget that high prices are in them selves the surest remedy for high prices in farm products. As soon as prices go up to a high level producers are encouraged to increase production of the particular product in demand, and when they have produced abundantly and sometimes when yields have not been high prices bump down.

The day cannot be lengthened by setting the clock ahead. Whỳ not let those who want longer hours of evening daylight start work one hour earlier in the morning and stop one hour earlier at night, and leave the clocks as they are? The question is one for firms to be readily adapted to meet such conditions cannot be readily adapted to meet such a change.

The one big obstacle against a referendum on conscription is the time which would be lost in getting the mandate of the people. If it could be done quickly the voice of the people would strengthen the hand of can only come with whatever course they follow. Success can only come with the people behind the course taken, which we have no doubt would be immediate conscription.

## Cónscription

For months we have believed that conscription is the only fair and democratic system of fighting any great war and we have favored its application in Canada if it is so applied as to take in all the resources of the country. Canada has a duty to perform-an hopor to uphold and there is no time for hedging. But if men must go into the service of the country, money and all other resources should be organized to serve the country at this time. And there must be all fairness and system in the operation of conscription of men and all resources. It has been suggested by some that conscription would not hit the Province of Quebec as hard as it would the other Provinces at the present time because the young men of that Province had farmers at an early age and because most of them were is agreed thation must be kept up. Everyone those wholnnow how to farm of food must not lag, and farming than fighting should not be taken ore value It is not a question of bravery be taken overseas. question of placing all eligibles where they most service to the cause of democracy and of systematizing everything so as to throw Canada's greatest weight of men, money and resources into the fight. Every man who can do better work on the land than at should should be left, but agriculture in any Province men not needed about it but leave some ind, men who know little drafted into leave some other work to escape being Ontario and military service. The rural districts in recruiting as well of the Provinces have done well in recruiting as well as in production, and, stripped of slip by the military, they see no reason why all should is ready the fron law which will back up the boys at the front by organizing fairly at home, and it is a wise precaution opinion will back them up to such an extent that they may be enforced without trouble. 'Universal service must fall equally on all Provinces, all people and on the men from Canada wants a system fair to all, with the men from all Provinces used alike.

## Fifty Years Old

On July 1, fifty years ago, the birth of the Dominion of Canada took place through the union of Upper and Lower Canada, as then constituted, with Nova Seotia and New Brunswick. Nova Scotia was the real leader in the movement which finally brought about Confederation, then a big idea and still a big idea, growing bigger as years go by. Prince Edward Island did not come into the union at first but later joined up, while Newfoundland left the matter in abeyance and has not yet seen fit to throw in its lot with the other United Provinces. -Now would be a good time to come in

Growth has been steady. From four Provinces joined up at first and five later when Prince Edward carne in, the country has developed and extended until at present there are nine great Provinces and the possibilities of the country reveal themselves as development gradually takes place. Who knows what the next fifty years may bring forth in this great Dominion of the New World and the North? Already we hear the Peace River District called "the Province beyond the Peace." Only the fringe of Canada's natural resources has yet been touched and the great inion of Provices may be added to in numbers and certainly will strength as decade follows decade in the next half Th
The fathers of Confederation won the greatest peace victory in Canada's history. Cementing the which required young nation together was a problem which required the best efforts of real statesman and

Canada-had them. The young nation created within the Empire-the great democratic idea has prospered as only democracy can up to the present stage where world war, waged at the behest of autocracy, finds Canada on the side of humanity and in the fight to the finish. These are the greatest and most trying times since Confederation and it behooves our present-day leaders in thought and action to emulate our statesmen of a half century ago and live up to the opportunity. which is theirs. Canada's honor is at stake in this fisty Democracy must be upheld. The country must be bound together and the men already on the firing be must be backed up. Foresight and the firing line should eliminate political intrigue and the statesmanship only 50 years old is on the threshold the young nation ment in growth and affairs.

## So-Called Daylight Saving.

Sir George Foster has introduced a Bill in the House of Commons calling for the adoption of daylight saviig Canada over. Sir George has spent his life in Finance and Commerce. He never had to harvest crops in catchy weather. He never had to cultivate and hoe weedy corn and mangolds between showers, otherwise he would understand that the dew falls at night and doesn't dry off until well after seven o'clock as our timepieces now run, and that the best time to kill weeds is not early in the morning, one hour before seven, but after the sun is well up and burning on his way. The hour between five and six $\mathrm{p} . \mathrm{m}$. in haying, hoeing and harvesting is far more valuable to the farmer than the hour between six and seven $a$. $m$., which would be in the ten-hour day under daylight saving, excluding the hour from five to six $\mathrm{p}, \mathrm{m}$. as it now stands.

In any consideration of tampering with the clock as man has set it by the sun-people in rural districts should be considered. In Canada upwards of 50 per cent. of the people live on the land and agriculture is, this year even more so than ever before, the most im portant industry. Above all things it is impert im. that farmers get all the help possible in harvesting their crops. Farm proprietors work from sun to sun for the most part and so the measure will not decrease or increase their hours of labor, but the hired decrease siderable of it from towns and villages, will figure constarting in the fields at seven by the clock and quitting at six unless under special arrangements of hiring, and that seven and six should remain as for yof hiring, and advanced one hour as suggested for years and not be city and town folk can fing sted by the Bill. Surely city and town folk can find time enough with their labor to hoe their back-yard their shorter hours of labor to hoe their back-yard-gardens without being fooled by advanced clocks into getting up one hour. earlier in the morning that they may ring off work one hour earlier at night. Surely thinking people could get up to start work at six, seven or eight by our clocks, in place of seven, eight and nine and quit one hour earlier at night without changing the clocks. Tampering with the timepiece has no advantage only to fool people into believing that they save an hour daily without getting up any earlier in the morning and such fooling saving is saving is no good for cowns, as an Act or by-law, unless made Dominion wide. Dominion wide it will interto firm agriculture, therefore it should be left entirely to firms, and any who desire to start and quit work one hour earier should make their own arrangements and leave the clock as before. There is just so many hours of sunlight no matter what any man in his wisdom may do with the clock, and he who would make the most of it must rise early and work late by the sun, hours are to the clock says. If daylight saving excluded. It fools to Canada, agriculture should be and summer-resort frequenters and occasionally a

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back－yard gardener into thinking that he gains time but it would hinder the farmer in his work if his hired help adhered to the new time and two sets of time make for much inconvenience．Therefore we say let the townspeople arise an hour earlier than they do and quit an hour earlier at night if they wish，but leave the

Mixed Farming With a Speciality． Ontario and Eastern Canada is a mixed farming with another depends very largely upon how well the farming operations are mixed．There is a difference between mixing and jumbling．The most successful
operators of mixed farming generally figure a number of branches which work well one with another toward a successful whole．There is very often a main branch or leader．For instance，on some farms dairying may be the leader with bacon hogs making use of the in importance．These requirem and a good second and bedding which divides the work nicely over the season，permits of a rotation of crops on the entire farm，makes it possible to grow a little wheat in many leave a little grain for sale if nopply of bedding and may whole a mied grain for sale if not required for feed－the and hogs．The farm with a speciality or two，dairying and sheep with a few hogs．Each system wuts beef cattl in first place as a speciality．Each system makes possible to breed and raise a few horses and to profitable flock of hens．They both make for maximum crops and returns from the land．Any farm operated on a mixed farming basis should，to be the best sucess， have a speciality in live stock．The mixed farm with no speciality is often a muddle．There is not enough of anough of all to make good returns and there is just ined means more stock to thel farm，more fertilizer bigger crops and a better cropping system，all of which mean better farming and bigger bank accounts．

## Choose an Honest Job and Stay With It．

I hae been thinkin＇sometimes that gin there＇s ony chance for a mon wha has become discouraged like，an isna＇makin＇muckle o＇a aucess oo＇his fight wi＇，cir－ cumstances，it＇s for him tae get hauld $\mathrm{o}^{\prime}$ a a story ${ }^{\circ}{ }^{\text {o the }}$ ，
life $\mathrm{o}^{\prime}$＇some mon that has been through the mill before life o＇some mon that has been through the mill before
him ，an＇wha has come oot on tap o＇the pile in the end． him，an wha has come oot on tap $o^{\text {t the pie in the end．}}$ by ony ither mon，gin he mak＇s up his mind tae it． I mind the time I wisa young chap，I used tae be pretty doon－hearted at times wi＇${ }^{2}{ }^{\text {a }}$ the bad breaks I wad be
makin＇．I began tae think at last that gin there wis ony chance whatever tae dae the wrang thing，that wis the thing I did．But by guid luck I Igot hauld o＇a book aboot that time，that gave a sort o a life history $o^{\prime}$
a mon that wis aboot as guid as mysel＇at gettin＇intae a mon that wis aboot as guid as mysel＇at gettin intae
scraps in his youthful days．But he stuck tae his job scraps in his youthful days．But he stuck tae his job
in spite o＇a＇kindso＇hardship an＇he won oot in the end．
Sae I says tae mysel＇＂Sondy＇ Sae I says tae mysel＇，＂Sandy，gin yourre no as guid find it oot，sae that ye can pit the blame on yer an－ cestors＂＂There＇s nathing like the force o，＇example
tae get ye back on tae the track tae get ye back on tae the
an $^{\prime} \mathrm{a}^{\prime}$ ready for anither run．
I wis readin＇an account the ither day o＇that chap stores in the different toons an＇cities there．It seems that he is the biggest retail merchant in a＇the warld， or that ever wis in the warld，an＇that he owns the
highest an＇handsomest building in New York City， which is sayin＇a good deal，as ye will ken，gin ye＇ve people warkin＇for him a＇the mait than forty thousand is valued at aboot sixty－five million dollars．He isna＇ what ye wad class as a failure in his ain particular line at ony rate．In fact maist o＇us think enough o＇
money tae let him pass for a success． Weel，this same chap got off tae
start．He didna＇even ken enough tae stay on the farm on which he wis born，but he must gang aff tae the city tae mak＇trouble for himsel＇an＇ithers there．For some years he held the Grand Championship in the green siders．The first three months he warked for naething an＇boarded himsel＇．At last he struck a job at six ness that his wages were cut doon instead ot of bein tae get it at he heard aboot anither place an managed tae get married an＇start house－keepin＇．But it wisn lang before his wages were reduced again．This wis mair than he could stand an＇he made up his mind tae yae intae business for himsel＇．His，first five an＇ten
cent store wis no great success，an＇juist aboot this time his health no broke doon an＇he he wis aff the job for a couple o＇months or mair．When he got gaein＇aboot again he started up four or five mair stores，but three othem went tae the wall，an＇in his efforts tae keep
things goin＇，oor young chap frae the country got himsel things goin＇，oor young cha
intae the hospital again
Hooever，he wis gettin＇wiser a＇this time，an＇he lines．He quit tryin＇tae rin the whole show himsel＇ang started in tae act as general manager，pittin＇the re－
sponsibility on ithers，an＇juist directin＇thing as he sponsibility on ithers，an＇juist directin ${ }^{\text {thet things as }}$ he
saw they needed it．His change oo＇fortune came wi＇ his change neded ideas aboot wark．Frae that time he has
or kept comin＇ahead till noo it is his ideatae finally hae a store in ilka city in the warld．I wouldna＇be sury rised
tae see him dae it either，for there＇s na keenin＇ mon doon，ye ken．Noo，as I said，it does a chap guid at certain times，tae read aboot a mon like this．When
things hae no kind o＇a deil in us that tells us tae throw the hat some up an＂quit tryin＇．An＇the maist o＇us feel unco＇tempted tae listen tae this sort o＇thing．But gin we dae，we＇re done．It＇s by stayin＇on the one job that we ever get
 a chap that I knew some years back．At thinded o
the rush tae the Klondime aff wi＇t the crowd Klondike he threw up his job an＇went north，but the hard wark and for a couple oo years up
ne cauld weather wer ower，muckle for him，so he sauld oot an＇cam＇back
hame．The mon that bought his mair than a couple o＇weeks when he struck the that it wis uche waitin for the ither chap，gin he had sand enough tae hae stuck tae his shovel an＇pick．But hame fortune oot o＇the dairy industry．，Aboot five years O＇it was enough for him．He cam，Aboot five years
that the hardest way ever in conclusion wis by feedin，coos and，ever invented to mak＇a livin＇
ilka night an＇
ind Tos live stock an＇imporninements，an＇anither move waction sale
This time it an This time it wis to a fruit farm，an＇it sounded as thade． it might be all right tae hear him talk aboot it．Buy ventures，an＇ have tae tak＇the farm wi＇hime again gin he didna＇ three moves are as bad as a fire，but It think it it＇s worse，
for，when a chap has moved that $0^{n}$＂havin＇ ＇ ＇d one one but one isn＇t apt to get into the habit． havin＇fires．But that matter aside，the point is that there seems tae be juist one sure way the point is
where in this
job and
jorld，then stavi＇，that is by choosin＇some honest chance tae climb tae the tap o o ${ }^{\text {＇}}$ it．But that fie yersel＇a
cent chap cent chap that I wis tellin，${ }^{\circ}$＇it．．But that five－an－ten－
thing that wis worth knowin，an ${ }^{\prime}$＇that wis thatred anither
yer business tae grow tae a guid respectable size ye＇ve
got tae tak＇on help an＇ken how tae manage it．I dinná think Ill be gaein intae that matter juist at present， hooever．I＇may hae a word tae say on the subject later on，gin I think I hae had experience enough tae
warrant me in expressin＇an opinion．But the auld wumman has juist tauld me tae come tae my supper，an ${ }^{\prime}$ suce one way tae manage yer help is by keepin
gumor，ye ken I mauna＇keep her waitin＇．

## Nature＇s Diary

To the farmer，some knowledge of the sciences
such as botany，zoology，chemistry and physics，is
most valuable．We might even safely say that such most valuable．We might even safely say that such
knowledge is absolutely necessary for intelliegnt agri knowledge is absolutely necessary for intelliegnt agri－
culture，that without such knowledge farming operations culture，that without such knowledge farming operations are carried oul
rule indeed．
mport these sciences botany is certainly not the leas is an extremely wide subject wider important．Botany are apt to think．It it is comect，wider than most people of ornamental study which consists in pulling flowers to pieces and giving a name to each little piece，and perhaps of collecting，pressing and mounting a certain nue to the plants．This idea of botany is undoubtedly subject which was in vogue in the schools and which is now fortunately being replaced by a better system Upon this point let me not be misunderstood；it is necessary that the student of botany should learn the parts of plants in order not only that he may under－ them－to tell the family the may be able to classify but this should be the foundation－work and not the oim and end of the subject，and any system which leaves collor point is like teaching a man how to excavate a cellar and build a foundation without giving him
the slightest idea how to proceed about the erection of the structure which is proceed about the erection Botany takes in not only the study of the anatomy of plants and their classification，but also the conditions under which they live，the way in which they perform druss，their troublesomeness to man as weeds，the mand as in which those forms known as fungi affect other plants which man is cultivating，the determination of those species most useful as iood for those forms of wild animal
life which it is desirable to pron forest and the improvement of the timber crop，and in its broadest sense，even the vitally important study of bacteriology，since bacteria are really a form of plant
life． Many of these phases of botany are of great import－
ance to the farmer，but the two which touch closely are the recognition and control of fungous diseases and weeds．
to define scarcely necessary in an agricultural country too well what sort of a plant is every farmer knows only． too well what sort of a plant is meant，but at the same
time it is a word which is often wrongly used．The term
is often a aplied to is often applied to any wild herbaceous plant，even
when it is growing in its natural habitat when it is growing in its natural habitat and is not
intruding on agricultural land．A weed is often defined as＂a plant out of place＂＂，so that in this sense a stalk of wheat in a cabbage patch would be a weed．But this is hardly a good definition and it seems to me that a far better one is＂a plant which persists in growing
where it is not wanted＂ where it is not wanted＂，as this brings in the character
of persistency which is one of the main atributes weeds．Without this persistency a plant cannot become a weed，and when we come to analyze this character
we find that it may be due to factors，the two most usual to one or more of many and rapid multiplication．Practically all our worst vave proved themselves suoceser lands，plants which existence for centuries in their respective struggle for and are continuing this success in the New Wour The ways in which weeds cause e loss to the farmer food；they crowd hey rob the soil of water and of plant－ insects and harbor fungous diseases；some are poisionous to stock，others are injurious to animal are poisonous those which produce burrs to become entangled in wool
and those which and those which taint milk；and all of them are a con－
stant source of expense to the farmer in combattin stant source of expense to the farmer in combatting
them． be able of much importance that the farmer should on his land．Often an extremely noxious weed wind
on tirst first appear in a locality in the form of a sing its name small patch，but as nobotaty happens to know until it brings notice upon itself hy to seed and spread If it had been recognized at tirst its infoad might have
been literally＂nimped been literally＂nipped in the bud＂．When travelling
through the country I always make a point of the attention of the owners to maky a point of drawing becoming established on their land，and in notice just have been able e oprevent the introduction of some
noxious species into noxious species into many localities．In some instances
the removal of the removal of a single plant has turned the trick．
In the recognition of
things to acquire is the ability to tell at once to what reduces weed belongs．When the famber of possibly is known it few．Anyone who follows the description and figures of the different weeds with which I I shall deal from time
to time should soon acquire this ability to recognize
families．

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accredit

July 5, 1917

## THE HORSE.

## When a Horse Transport Sinks.

All the sufferings of horses in the war have not taken place on the field or battle. They, too, have gone down
victims of the Hun underseas "Georgic" was sunk with 1,200 horses on board. The Germans shelled the ship and finally torpedoed her Dr. O. E. McKim thus described, in the New York World, what happened:
vere piling over the well-deck of the soon the seas heavy, was the backwash that every once in a while a horse would be picked up bodily by it and swept into the ocean, right over the bulwarks, which were at least
8 feet high $\quad$ You may sea was running when you realize idea of what sort of a thirty of the animals were carried clear off the ' George or Some They swam round and round in the icy water some of them for hours. A splendid chestnut struck out straight for the raider. I recognized him as one
of my pets. So close did he get that I could hear his breath coming in rasping sobs. You I could hear his tired from swimming approach a raft and have heard him pant with relief as he was within reach of it?
This is exactly how the che This is exactly how the chestnut was panting-almost
sobbing for breath. It was exactly sobbing for breath. It was exactly like the swimmer
reaching for safety just before reaching for safety just before he is spent. I could begged him to shoot the animal rather commander, leave him to struggle his life away trying vainly to claw up the side of the raider as he was. The commander took careful aim with his Mauser pistol, which had an ad a rifle, and fired. It took four shots to end the poo creature's misery.
recognized swam. for probably Another grey horse which I recognized swam for probably an hour and a half round his head, the 'Georgic' before the water closed over
terrible.". I love horses-always have. It was

## More Good Horses Needed-Must Use Better Mares.

It seems that horse-breeding conditions are none from some articles published in British agricultural papers. We hear complaints in Canada of the scarcity of really good horses, and the comparatively large
numbers of inferior animals. A writer in "The Farmer \& Stockbreeder" has some things to sy in . Farmer the same conditions in England where there is a scarcity
of choice brood mares, especially of choice brood mares, especially of light blood. The
writer of the article here puoted believes that writer or the erticle here quoted believes that the mare
has more infuence on the offspring than she is commonly accredited with

The question of horse breeding and of raising the would almost seem that the complicated one, and it as the subject is discussed and the number of horses expands. How important it is that efforts should be
made to place the industry on a more sats ing is evident from a fact on a more satisfactory footthe other day. A gentleman, buving horses for the (iovernment, passed in review, four hundred horses of sorts. He bought four! It will, no doubt, be said that certain is that he question was too fastidious. What is
cemongst horses all his life. certain is that he has been amongst horses all his life.
But to return to the question. portion of undesirablespoints to the fact that a good brood mares, or even passable ones, are likely that good brood
for our requiremente too few for our requirements, at any rate at first, and the question
which presents itself for solution is a dificult which presents itself for solution is a difficult one. It
is, of course, the ordinary light horse-the horse that 1s, of course, the ordinary light horse-the horse that
has to stand the burden and heat of the day-that I am
especiall especially referring to, and the position seems to me
to be something like this: If we to be something like this: If we could find the mares, we have the stallions, or at any rate sufficient stallions
to give us a fair start "A very sat "A very general opinion seems to prevail that the
improvenent of horses comes from the use of good
stallions end so a partial truth. Here and a measure; but that is only whose stock, no matter what the mare may be like is all good. I have known two, perhaps three, such
stallions in stallions in my time, but they are naturally scarce
Far more frequent is the horse wher stock from one mare, and indifferent stock from another both mares being, to all apppearanceses of equal merit.
I have been told that thousands Thave been told that thousands have been spent, and
are being spent in providing stallions-a very limited sumber of thousands, by the way, compared with the that all has been done of that is is necessary only a work, of time. But all practical men know that grading-up. is a slow purcesss. When men know that
Cleveland Boom bas on in
Whe the the eighties, men sold highlass mares that should have been kept, thinking to
grade up 'from those which were grade up from those which were left. It is only where
men refused to part with their mares till they had sore of the same blood to take their place that the some
standard has been reached. Whether the stallion or he mare is the more important factor in breeding horses certainty. The horse is never be a matter of scientific most infuence on the shane and why what is known as the the
'quality' of the offtspring the 'quality' of the offspring. and also to have greater in-
fluence on his courage. This, however, is perhaps more apparent than real, for it must be borne in mind that
the horse, being generally Thore the horse, being generally. Thoroughbred, is sure from
that fact alone to have his particular attributes more

## THE FARMER'S ADVOCATE.

distinctly marked, and therefore more easily trans-
missible, than the more sluggish-blooded mare. It is getting the feet well shod, having the feet missible, than the more sluggish--blooded mare. It is
perhaps more a question of pedigree than of sex, and bred whose dam was Thoroughbred tends to confirm the heory.
mare erred from an unsound horse or an unsound is right. Yet theorist; and in great measure the theorist conclusion, and there would have been to its logical merit on the Turf. And so one sometimes sees amos the milion of fresh particulars a common, insignicicat mare breeding high-class stock. I can remember one or two such mares, but because there are a few such it with, say, a premium stallion with the may be mated she will breed a foal that will sell at a good price. It just possible, of course; we have incidents such as those gamble is too bie the then, but the gamble is too big, and the man who breeds from an in back upon, which will justify his action, is asking for trouble.
not The importance of pedigree in the brood mare cando not mean Th. And by pedigree in this particular pedigree in particular. I mean este, or any registered result of generations of ancestors of a similar type the character. When there is this established type in the brood mare, the breeder can look forward with considerIt is this established type in the Cleveland enterprise. Yorkshire Coach horse which makes the crosses between the the Thoroughbred and those breeds generally so between ful-or, perhaps it would be safer to say that it is one portance to get to know as much about the pedigre por the mare, and especially as much about her female
of ancestors, as is possible. It think it is within the range
of possibibity that on the subject, it will be found that the female ancestors have most to do with this establishment of type
the pedigrees of their famous breed through worked out line. Many Cleveland Bay breeders have the female same, though without any special theory on the subject. like to see a really good mare come in at the top end of the pedigree on both sides, said a well-known breeder tice with the best of results. was followed by his pracwe frequently see, when the horsees are good pougormeds
that one mare figures in the pedigree on both sides."

## Showing Heavy Horses.

Editor "The Farmer's Advocate"
Fitting and showing Clydesdales requires a great deal of patience and knowledge, also experience. In the first place, great care should be taken when unloadare anxious and become excited. Travel them the horses to the exhibition grounds, taking intice thery slowly going sound. Stable them comfortably, offer them water and a inttle hay, encourage them to settle down in the strange stable and see that they have a comfortable tions continue a week or more meal. The large exhibi erally on the ground two days before juls are gen place, and during that time the boys have located where all the best animals are, discussion takes place about the whatever you fear show s. Wont get discouraged sary to take a back seat in the prize-list look if necesand feel you did your best. Before leaving pleasant the show, have all necessary trimming done to the legs,


Refreshing the Horses in Harvest.

## THE FARMER'S ADVOCATE

Founded 18
also from the infroduction of excessively cold may
terial, as frosted fodder into the oran
Symptoms. - The patient commences to exhibit sifghs of uneasiness, lying down and rising frequently, and food refused There Rumination is suspended protrusion of the muzzle, projection and congestion of the eyes, increased flow of saliva, and generally moaning during expiration. The back is arched, and thiefe is more or less well-marked swelling on the left side, more pronounced in the space between the point with the finger it will yield, but at once regain its former condition when pressure is relieved. If tapped with the fingers a resonic, tympanic or drum-like sound will be heard, hence the name "Tympanitis." Distension of the rumen causes forward pressure upon the diaphragm
(the division between the abdominal and lung cavities) the division between the abdominal and lung cavities)
hence lessens the space of the lung cavity and causes difficulty in respiration in proportion to the degree of bloating. In many cases forcible ejection of faxces per rectum is noticed. In most cases eructations of gases
of a special odor will be noticed. The bowels soon
cease to act and breathing bent cease to act, and breathing becomes more difficult as the tympany increases. The brain frequently becomes in-
volved to some extent, the patient becoming blind volved to some extent, the patient becoming blind,
staggering and falling. Death may occur quickly fron staggering and falling. Death may occur quickly fro
rupture of the rumen, rupture of the diaphragm, suffo cation or absorption of gases
reatment.- Preventive treatment consists in avoid ing sudden changes of food, especially from a dry to should be made gradually. When cattle that have bee sed to dry fodder are to be turned out on grass, especially veal in the clover, it is good practice to give a moderat say 20 to 30 minutes. The next day leave on gras or a longer time, say the to 50 minutes, and continue to gradually increase the period, in order that the anidigestive organs gradually acquire the power to, perform their new functions. In a few days it will be reasonaby safe to allow the cattle to remain on the pasture
Much greater danger exists, at any time, in allowing cattle that are not accustomimat to green fodder, to pargrass, rape, turnip tops, etc., are very dangerous under all conditions
neutralize the gases that are present, and prevent or the formation of others. It will depend upon the severit or the disease, and the extent of the distension of the
rumen, whether it will be wise to attempt immediate removal of or administer drugs to neutrolize, the gases.
When bloating is not excessive, hence little danger of death occurring quickly, the administration of any drug
that will neutralize the gases may nod that will neutralize the gases may and should be effective
For this purpose probally oil of turpentine (commonly called spirits of turpentine) is the best simple remeds This is given in 2 to 4 fluid-ounce doses, (an ordinary
tablespoon holds about $11 /$ fluid ounce) accarding to tablespoon holds about $1 / 2$ fluid ounce) according to the
size of the animal and the state of distension wise to administer it in some vehicle to prevent irrita-
tion to the mucous membrane The raw linsed oil, 1 to $11 / 2$ pints. When oil is not on hand
melted butter or lard or whole milk answers the melted butter or lard or whole milk answers the purpose
well, but the turpentine will not mix with water, at the same time when oily vehicles are not readily obtainable shaken. Hyposulphite of soda in the be constantly mixed with about a pint of warm water also gives good results. Carbonate of ammonia in 4 to 66 dram doses,
or bicarbonate of soda doses also acts well, but none of the drugs mentioned act so well or so promptly as oil of turpentine.
mend the administration of about $1 / 2$ oz. of formali in a quart of water, and cite many cases in which it
has given excellent results. The writer has not experi mented with this drug on account of always being able time the use of formalin is worthy of a trial, hut it same be remembered that it is a very strong astringent and
irritant, hence must be diluted with irritant, hence must be diluted with at least a quart of
water.
In addition to administering the dose (whatever select) it is good practice to put a hay rope, piece of
wood or omething about 2 inches in diameter, into the
mouth mouth and fasten it there. This tends to cause a work ing of the jaws, and facilitates the escape of gas through
the oesophagus. If the desired results be not oltainh in an hour the dose may be repeated. In cases where bloating is extreme there is danger of death resulting
quickly from ruture of the enter quickly from rupture of the organs mentioned, res from
suffocation. In such cases we cannot of medicines given by the mouth, relief nust be prompt, means. In some cases the passing of mechanical down the oesoplagus to the stomach will give immmediate geag, a mouth speculum, a clevice open oy an ordinary
tube, (about 5 or 6 feect of ordinar device; the doess well) is oiked and carefululy passedy $1 /$-inch garden hose

din such catex an opening musut te made into the
 gas will escape and give practically inmeug which the
The hair should be clipped off and the
tuon, the instruments and the hands of the operator disinfected with a 5 -per-cent. sol
or one of the coal-tar antiseptics. proper one to use. It consists in a metal tube with a sharp-pointed metal rod running through it, the point of the rod extending for some distance longer than the tube. An incision may be made through the skin with a knife or the trocar forced through without an
incision. It is forced well into the rumen, the trocar then drawn out, which leaves the canula, or tube inserted, through which the gases escape. When this instrument cannot be procured in time, an opening may be made with a knife and the lips of the wound be quite large no after treatment is required other than keeping the wound clean and occasionally dressing with an antiseptic. When the proper instrument is used after treatment of any kind is seldom necessary. disappeared to it it grood practice, atter bloating has pound of Ensom salts or $11 / 2$ pints raw linseed oil and feed lightly on laxative feed for a few days.

Whir.

## The Origin of Dual-Purpose Short

 hornsMuch interesting reading has been penned regarding the history and development of the Shorthorm breed, but chapters relating to the work of Thomas Bates and
the excellence of the Kirklevington herd are fascinatin to all. An article in the 1916 Live Stock Journal
Almanac, written by Horace $G$ Regnat is remer of early Shorthorn days, and we have taken the liberty or reproducing it at this time. Famous animals as wel


Thomas Bates.
Economic forces, such as the closer settement of the tending to make the canges throughout the world, are upon the dairyman for his supplies of beef as well as cow a position of increasing importance in the world's

The Bates Shorthorn represents the highest type of the dual-purpose animal. When we the highest type
of the early She Shorthorn . Wistory that even from the earliest times the Shortheminded and her ancestors were of the dual -purpose type. Writsays: "Of all the cows in England I think none come horns and large bodies, which their wide bags, short profitable beasts for the dairyman, grazier One of the Collings bought a cow, Daisy, "of very neat
shape and very yinclinate shape and very inclinable to make fat, and her family
milked as well an the Deat she was by Masterman's bull. nard's Favorite were "great milkers and hators of Maybefore calving." Hubback, we read, was ""one milked quickest feeders known, and his dam was a small tow
but good milker and quick feeder., were noted milkers. Colling's Bright Eyes, Princess tribe

Milk and Beef Combined.
Most of the early, breeders of what we may call 252 , developed the breed upon the lines of Favorite the other hand, clung tenaciously to ties; but Bates, on old dual-purpose characteristics of the breerd
sisted upon heavy milk yields when selecting the foundations for his herd or his out-crosses. In tact, it soon became a saying, "Booth for the butcher and Bates
for the pail." When Sir Charles Knightley found the he had, to a very large degree, lost the milking qualities of his cattle, he brought back the milk by the use of Duke of Cambridge 12742, of pure Bates breeding

Bates, however, did not neglect the feeding qualities. of his cattle. He was an all-round improver. He
checked the amount of feed consumed by with the amount of milk produced, or the rate of growth or increase in weight, and compared the amount butter produced from a given quantity of milk; and finally submitted the carcase of his animals to what he 35 years' breeding he had effected such an improvemeng in Shorthorns that, with a third less consumption feed, they gained a third more weight, and that whilst their milking qualities were unimpaired, the mill sielded a third more butter. We have confirmation of and Christopher Mason of Chilton, weween Mr. Bates You can go you in milk, butter and beef; but we cannot do so unless sell them at high prices to breeders.
Bates also differed from his contemporaries in the manner in which he selected the foundation of his Barmpton bulls on the ordinary cows of the district such as he had at hand, he purchased over 200 of the best-and-best bred cows he could find, and by a most from which the Dered reduced these to less than 10 , Red Rose and Foerast, addition to these, he kept a few of the nescended. In farm belonging to one of his tenants, and from these are descended the Barrington, Darlington and a few to-day, such as the Frosts and Mavorite families of from the, Kidesende from cows that were rejected from the Kirklevington
herd. Bates breeders then have just ground for their contention that their cattle are the purest and best
bred in existence, and that no other breed of animal bred in existence, and that no other breed of animal ing test. The Danger Period
.. After Mr. Bates' death and the dispersal of the Kirklevington herd in 1850, a craze sprang up for purity
of blood, which was opposed to Mr. Bates' real aims
and methods of breeding and bes. and methods of breding, and, besides being unscien-
tific, was bound in the long run to result ti great tific, was bound in the long run, to result in great danger
to, if not in the total extinction of the breed to this the milking qualities were no longer prized, but to this the milking qualities were no longer prized, but
were allowed to fall off
Subsequently a reaction set in, and successive crosses
of Cruicksthank and other thood were used, which did
indeed restore the tave indeed restore the ravages caused by injudicious in-
breeding, but at the cost of the entire loss of milking qualities, Bates character, and dual purpose maracter

Fortunately, however, there were some few in-
dividuals who resisted both these extremes, and the
chief of those to whom wic chief of those to whom we are indebted for the revival
of the Bates cattle is the late George Taylor, of Cranorde His cattle is the late George Taylor, of Cran-
ford. His was, if possible, to improve upon the original type of Mr. Bates' cattle, as far apo utility points (beef and milk) were concerned, whilst maintain-
ing the frame and stylisherentiche ing the frame and stylishhdarriage, and keeping in view
the what is a sine qua non of a dual-purpose early maturity, and economical feeding. Therefore, in the later eighties he set about to pick up where he could a few of the best specimens of Bates
cattle that were then in existence spd Youndation which included Barringtons, Darlingtons, Waterloos, Wild Eyes, Red Rose, and Foggathorpes auchesses were only added later), and to these were
added some representatives of Sir Charles Knightley's Furbelows, and also a few animals of good dual-purpose ype descended from the stock of Mr. Mason, of Chilton.

## Beau Säbreur and His Successors

4049 He was lucky in getting possession of Beau Sabreur onsiderable portion Cranford herd is due. He was by the success of the bull bred by Mr. Cruickshank from his Lovely trib and his dam was, Beauty a deep milking cow of Sir
Charles Knightley's Quickly tribe, which had sufficient Charles Knightley's Quickly tribe, which had sufficient icking with the Cranford cows.
Beau Sabreur was used wit
measure of success for eleven the greatest possible succeeded in improving the frames and depth of feash flesh
without impairing in the silther without impairing in the slightest degree the milking
qualities of his daughters. He was then followed by no less than five of his sons out of Cranfod wet to wit, Becket Beau 101487 out of Barrington Duches 21 st, a 952 -gallon cow; Cardinal 98304, out of Lady
Carlisle 4 th, a -914 -gallon cow; Waterloo Bearf 85039 out of Lady'Molly Waterloo, a 1,134 -gallon cow; Water or Tring Show, which won second Inspection Prize at the
Tr and Wild Prince 16th 78179 , of Wild Erin, which won first prize in the milking trials, at the London Dairy Show, 1902, and had a record of 987 gallons. Five of his grandsons were also used in the herd, viz.: Stadborough Cran 104038 by Lord Stadborough, out of Darlington Cran, which was firs
at the Royal Show 1905; Waterford by Richmond out of Waterloo Cranford 12nd, higraly commended a
the London Dairy Show 1908, and gave 716 gatlon with her first calf; Saloms Freemason gave 7100526 gallons charm, out of Fedora, which gave 742 gallons with her
first calf; Richmond 100290 by Wild Prince 16 th from 109891 by Waterloo King from Red Rose 14th, with a record of 1,015 gallons. These sons and grandsons of Another very, successful out-cross was Sir Millicent
100675 by Prince William 86970 . 100675 by Prince William 86970, a Waterloo bull with a good deal of Seotch blood in him, out of Red Millicent, deep-milking cow of Mr. Thompson's Millicent tribe, descended from a Booth foundation. Another was of a deep-milking cow.

The Result.
Mr. Taylor was successful in producing a herd of cows which comprised very heavy milkers. The ma-
jority giving 1,000 gallons, or thereabouts, in the year, jority giving 1,000 gallons, or thereabouts, in the year, time, in the vast majority of cases, able to combine
with this a wealth of flesh and with this a wealth of flesh and the gerereal characteristics
of the Bates blood, and to produce calves which were of the Bates blood, and to produce calves which were The prices which Cranford cattle at public auction is a matter of common been fetching To refer briefly, at the dispersal sale after Mr. Taylor's death in 1912,187 head averaged $£ 82$, the highest price
being 500 guineas. . From that time prices gradually being .500 guineas. . From that time prices gradually
rose till the recent sale at Tring Park, when the females of Cranford breeding averaged $£ 120$, and a three-yearold Duchess of Barrington made just under $£ 1,000$,
and her month-old calf $£ 150$. and her month-old calf $£ 150$.
In view of the great futu
In view of the great future which undoubtedly lies
before the dual-purpose cow, and taking into considera-
tion that the Cranfor before the dual-purpose cow, and taking into considera-
tion that the Cranford cattle represent the acme of that type, it cannot be said that these prices are to any great
extent excessive; but, in face of these facts, it is a mater of considerable surprise that Mr . Taylor's example of resuscitating the milking qualities of Bates cattle has
not been more widely followed. It is an easy matter not been more widely followed. It is an easy matter
to find bulls of Cranford blood in which the best Bates
blood is combined with heavy milking qualities, and blood is combined with heavy milking qualities, and which are an admirable cr
pen to be deficient in milk
recent Calthwaite sale. Here some magnificient at the mens of Bates type and character were offered specipublic, and although milk had not been specially studied, yet as evidence as to the extent to which milk is in-
grained in the Bates blood, a considerable number of he animals in the catalogue bore every trace of being
heavy milkers, and practically the whole of the animals offered only required one or two crosses of the right
bulls to produce dual-purpose cattle of the very highest Oxford Balance, which many will remember as sale and which made 200 guineas, was a granddaughter
of a Calthwaite cow, the two Cranford crosses being of a Calthwaite cow, the two Cranford crosses being
Richmond 100290 and Beau Sabreur 74049 . more of careful breeding behind them, during the greater part, if not the whole, of which the dual-purpose type asset to anyone starting a herd, a a s in consequence of
their old and concentrated breeding, they ordinary care and intelligence, be made to breed true been disappointed time after time with the usual lottery of breeding.

Selling a Piece of Ontario's Wool Clip.
The maiden effort of the Ontario Sheep Breeders A spociationthis year in the co-operative arena met with this country. The grading system has been a success made good their pledge to meet the sheep breeders hall way if any movement should be initiated to improve the quality as well as the price of the Ontario product,
At the Annual Meeting of the Domion-Shee Breeders Association in Toronto last February, a representative
of the Textile Journal promised sheep of the Textile Journal promised sheep raisers that the manufacturers would do their part and meet the pro-
ducers half way if the wool clip could be graded, standducers half way if the wool cilip could be graded, stand-
ardized and improved. Whether the representative was actually the mouthpiece of the trade we do not know, but events indicate that the dealers and manufacturers have accepted the responsibilities imposed
upon them by his utterances and have made good the upon them by his utterances and have made good the
pledge. The United States is hungry for wool and the quantity of Australian product released seems only world over, is abnormal and unprecedented so the Guelph prices are quite in keeping with the times. here the prices received at Guelph, which were published
last week:

Fine mediue
Fine medium com
Medium combing
Medium combing
Low me
Coarse
Lustre
Rejet
Gray and black
Tags.... Washed woll (a small lot).

Every year Ontario shepherds and farmers shear pounds of wool. Some of it is sold in the grease while
the other the other part is washed either on the sheepa's back or In a tub. It may be stored in a dry place until sold or it may not be, in which case it is objectionable. The the wool, or it may be tied with hinder not to impair strands of which get mixed with the fibre decreasin sthe value of the fabric made therefrom. In still other cases the neck piece is used to tie the fleece which makes the part so employed hard to unravel. Clothing and combing
wool, used for two together along with different colors, locks puspes, go in the manufacturer this is only a mass which, he must separate, grade and sort before it can be handled in the
mill. After this mill. After this it must be scoured to remove the grease and dilled. Is it any wonder that wool which can through the co-operative system and the proper care taken of the wool meet with appreciation?
Those who have contributed to the Ontario Sheep
Breeders' grading system will, no doubt, be pleased with Breeders, grading system will, no doubt, be pleased with
the price, but naturally a few consignments This is to be expected when such a quantity of wool comes from so many different shin a quantity of wool
the blame fortheless at the door of the co-operative The prices received at Guelph cannot fail to add tone to the wool market in Ontario and while it is too who preferred to sell other handled in this way, those through the movement they failed to patronize and assist. It has helped every producer of wool and ren-
dered particularly good service to these who accepted


A Pair of White-faced Beef Makers.
it as a medium through which to market their product. The Live Stock Branch at Toronto, for its management
of the work, and the Live Stock Branch at Ottawa for of the work, and the Live Stock Branch at Ottawa for
the expert graders, deserve the appreciation of allontario the expert graders, deserve the apprec
sheep breeders for the achievement.

## Local Swine Organizations to Pro-

 mote the Industry.There have been many good farms bought and paid for with hog money, but the farmer who is most success-
ful in this direction is the one who studies the busine and stays with it through fat and lean years It is so easy to increase or decrease pig stocks that too many sell out when prices are low and build up again when values range high. In this way they suffer all the misto enjoy the good ones. We believe that farmers would profit by a local organization through which they could advance shoulder to shoulder and feel the touch of their brother man when danger threatened. Agrisince the situation is seldom analyzed as it should the general conditions at the time sugrest the same the to all, yet when 75 to 90 per cent. of the farmers affected adopt a certain principle and arrive independently at direction and they were ostensibly instance, unfavorable climatic conditions wrong. For portion of the country may curtail the production of grain which at once suggests a scarcity and high prices.
Viewed on the surface it is not a fool-hardy Viewed on the surface it is not a fool-hardy move to yecrease when thousands of farmers lower prices temporarily result through the heavy liquidation of stocks, only to be followed by high prices resulting from a decreased supply. What appeared
to be a solution of the problem was overworked so the man who held on was right, and the masses were wrong.
The majority sold for low prices because of the abnormai supply due to heavy marketing. Prices then advare as a sequence for the country is drained dry. This
illustration does not apply to any particular period, illustration does not apply to any particular period,
or any one province or community. It simply explains or any one province or community. It simply explains
the system or method governing the production of hogs
and has been the practice for years and years. more whatete example which bears out our contention only mention the three Prairie Provinces in 1914. Alberta aloghout in the vicinity of one million pigs, one-third as mary as could probably be found in Canada to-day. Manitoba and laske the will likewise well stocked. The come of lack of organization and information was the outthe other fellow was doing. Abattoirs were unprepared the marketing machinery was inadequate, feed prices rose suddenly and confusion followed. One function one with the other one markets, home as well as foreign sections, study uation and base conclusions on actual as well as prob sitIuture conditions in the country. In this way the ill effects of the mob method of dealing would be partially to enioy the misfortunes of the lean ones.
There are advantages apart from those already mentioned that should accrue to a local organization.
One breed of sociation as its ideal and courd be accepted by the asquality could be purchased for use in the extra goon If this method were followed consistently the distid would soon be in a position to turn out a uniform lo of hogs, the quality of which would have to be recognized Communi
marketing wherebyy value of their hogs and could demand payment according to grade or quality. The almost entire absence of this method of payment has
been one of the been one of the greatest
deterrents to the development of the bacon dustry in Canada. ing shourd go hand in hand with co-operative buyingor feds and equip-
ment in large quantities. This does not neeresitetate
going beyond thelocaldeal r unless circumstancesre quire it. Established trade usually quote reasonably
on large cash orders and a cash system of trading could be established by
funding the security of the organization. Beyond this there are large central co-operative associations
dealing in all kinds of farm supplies. Thequality
of mill feeds might well
be improved of impleeds might well
be imp an or-
ganizationof buyers would ganization of buyers would
be in the best position handle the matter. Farmers' Improvement of rural organizations could Associations, and all kinds word, but the district should be compact, well defined and not too large.
value to prodociations cond be buying and macers in studying and equalizing conditione, buying and marketing, improving breeding stock artd the quality of the product, controlling disease, solving feeding cheapened, and through the achievement of these obtect be the industry would be put on a more stable basis which would result in better markets and greater remuneration.

## THE FARM.

## Cultivating the Corn Crop.

 prevent weeds and corn associating there is likely tobe trouble before harvest. There is no be trouble belore harvest. There is no room in even
the largest field for these two plants, and if a firm hand is not kest on the weeds the corn crop is bound to suffer Not only do weds take moisture and plant food fromer.
the soil that should be left for the cultivated they seed so profusely that a few noxious plants allowed to mature may contaminate the soil and caise trowble lor years to come. During the season that corn makes
its most growth there is seldom an over-pus Frequently there are several weeks at a stretch with barely sufficient rainfall to settle the dust. Now, it is a well-known fact that plants must have a continual
supply of moisture in order to reach supply of moisture in order to reach maximum growth
in a given period. $T$ Too much or too litte mental to most crops. However, nature rain is detrithat a good deal of surplus water be held in the soil and given up to the plants as they require it. In this way a crop is tided over a prolonged drought. Man has a part to play in holding this water in the corn field as
well as in other fields. Frequent a fine dust mulch covering the field so tion will keep loss of water by evaporation. But, if this mulch is not present the soil soon dries out and cracks badly. Be-
sides, where the cultivator has sides, where the cultivator has not been kept going every week or ten days up to the time the corn tassels,
weeds will exact a toll from the soil and return no rever It is_estimated that one pigweed to every fourth hill of
corn will take sufficient moisture from a ten-acre field to grow about fifty bushels of corn, or in other words
if the weeds are present the yield will be reduced by that much. There are a number of weeds commonly of moisture. From an economic standpoint the corn field should be kept free from weeds.
Corn is one crop that responds to proper cultivation Keeping the surface stirred stimulates growth even in dry season, but, there is a right and a wrong way o in more than one promising crop being given a setback The corn plant has an extensive root system; the so between hills or rows becomes filled with fibrous roots or feeders before the end of the season. These roots
increase as the plants develop. At first there is only a small bunch right in the row and the cultivator can be run quite deeply without injuring the crop; but, as the season advances the roots spread and may come quite close to the surface, so that a deep cuitivation woul best practice is to start with a deep cultivation to loosen up the soil so as to aid in conserving moisture, then run a little shallower with each succeeding cultivation A year ago a certain field of corn was making rapid who aimed at leeping a dust mulch between the rows When the corn was about four feet high this man wa away on cultivating day, and his brother undertook to do the work. He thought the soil should be loosened up, and gave the cultivator a couple of notches more congratulating himself on doing a rood job, but whe crossing the field at noon he noticed that where $h$ started the leaves were drooping and the crop wa beginning to take on a sickly appearance. He was un able to account for this until he learned that he was
cultivating about two inches deeper than usual. cultivating about two inches deeper than usual. evi were severed from the plants. At any rate the cro never entirely recovered from the shock it received Keep the cultivator going, but don't let it run shallow one week and put it in deep the next. Either keep at a
uniform depth all season, or else start deep and gradually run shallower as the season advances.

## England's Increasing Cultivation.

 Editor 'he Farmer's AdvocatbSpring cultivation having been completed, the County War Agricultural Committees are now devoting heir attention to the great business of increasing the The Board of Agriculture are endeavoring, with the assistance of the Committees and the loyal co-operation of farmers, to reproduce as far as possible the conditions
ch obtained in England in 1875 The statistics on the subject, dealing with different
parts of the country, are in the hands of the local organ-
izers; and the following figures taken from the official records are instructive ating agricultural practice forty years ago and recently:

## 1875

Clover and rotation grasses Other arable land.
Perman arable lan
Total acreage under crops and
grass...
It will be seen that in the space of forty years the by $3,273,873$ acres, and at the same time $3,479,557$ acres were laid down to pasture. In view of the lessons enforced by the war it is obviously desirable to alter this state of things, and to bring back thousands of acres now

The result of fairly exhaustive inquiries by the writer shows that only in comparatively rare instances are the War Agricultural Committees likely to find it necessary to exercise the enormous compulsory powers they possess to speed up production. Furthermore, there has been very little friction in connection with the agricultural survey of land in the counties. This work has been completed, and the preliminary steps are already well advanced in some districts for ploughing in
with the recommendations of the experts

The spirit in which, generally speaking, the Commit tees are carrying out their duties is illustrated by an incident in East Anglia. Complaint was made that a Committee were pushing forward with work without and in effect a reply was made that while the particulars would be supplied in due course, the Committee were an executive body, they were practical men conversant with local conditions, and they would not be hampered by red-tape procedure
There is a strong desire in responsible quarters that earliest possible moment, for the information_of farmers, what crops should be grown next year and thereafter, having regard to national requirements. Only by means of this information issued officially can plans
be made with confidence for future cultivation. The value of time and forethought in farming was never more fully recognized than now in view of labor conditions. It has always to be borne in mind that agriculture more than any other industry is subject to rigid posed by conditions of soil and climate. Every farm and indeed almost every field on a farm, demands special treatment; and success depends largely on the ability to look well ahead and make arrangements to

1916 Acres $2,311,267$
7 7,990,886 $10,302,153$
$4,015,840$ 14,015,840

33

## Mi

 due attention will be paid to this subject, and also that adequate quantities of seed will be secured. The Com mittees are urged to bear in mind that their objectshould be not merely the ploughing up of a given number should be not merely the ploughing up of a given number of acres, but to aim at producing food in such quantities
that the nation will be independent of imported supplies. For this purpose the land to be ploughed "must be such that it will produce at least average crops of
corn and potatoes." On this point the Board of Agricorn and potatoes.
culture states:
grass land. This necesary to plough up some of the good grass land. This country possesses in the good grass
land the only reserve of fertility in Europe, and in the present crisis we must make use of it to produce the present crisis we nation needs. It will be necessary to
food which the nater
retain sufficient grass to preserve the dairy stock, since retain sufficient grass to preserve the dairy stock, since
the supply of milk must be maintained to the full, but in this connection every effort should be made to extend the system of arable dairying. The case for a great increase of arable cultivation is overwhelming from all points of view, and . . it is the duty of the members of the Committee and all the leading agriculturists
in the counties to set the example in this matter. It is the earnest desire of the Government that the Agricultural Revolution which is necessary should be a peaceful one. But Committees have been invested with powers to enforce the task which is placed upon them, and in the last resort they must not hesitate to use those

Yorkshire landowners and farmers, convinced that it is a case of needs must when the possibility of food shortage drives, have set to work with truly characteracres of grass and derelict land. The three County Councils have talked over the sweeping project by which $3,000,000$ acres with the assistance of 5,000 motor tractors and ploughs, are to be added to the corn-growing area of England, and have resolved, regardless of is really a mandate from the nation. The West Riding's share of the work of conversion is 101,000 acres; that of the North Riding is 91,561 acres; and that of the East Riding will probably be as large as that of either country has been sent by the Board of Agriculture to mittees in England and Wales, indicating the Government's requirements for increased cultivation for the harvest of 1918. The work to be done, it is stated, will rom farmers geater exertions from the Compted hither. As the task of breaking up grass to the extent of ree million acres (the total mentioned by the Prime Minister as comprising the Government land program achinery, an undertaking is given by the Board that equate quantities of seed will be secured. The Comhe supply of milk must be maintained to the crease of arable cultivation is overwhelming fro all

## What Yorkshire is Doing



The Fathers of Confederation-Canada was 50 years old July 1.

 A letter of great importance with regard to agricultural development in relation to the food supply of the

ГHE FARMER'S ADVOCATE.
the West or the North. Thus, towards the new corn-
producing area that must be added to the arable soil producing area that must be added to the arable soi
in the 40 English counties Yorkshire has to contribute
nearly 300000 acres. The average per county is 75000 nearly 300,000 accres. The average per county is 75,000 acres. Yorkshire's share is one-tenth of the total for
all England. Northumberland suggests a contribuall England. Nort
tion of 80,000 acres.
of whoever is responsible for the fixing of the figure an idea of reviving the state of things existing about 1872. There were then 474,189 acres under the plough
in the West Riding. In 1915 that had fallen to 224,426 in the West Riding. In 1915 that had fallen to 324,426
acres. When the Premier recently said that all land acres. Was yielding corn 40 years ago must do so again, he did not, of course, expect that dictum to be taken literally everywhere. Forty years ago the lovely valley
of the Wharfe was a bright yellow expanse of waving corn every August. But imported wheat since then has turned the vast sheet of waving yellow into the many
shades of green that rich soil can impart to well-cultured pasture. Great manufacturing populations in close cheese; so, as the point has been tersely put, "like the manufacturer who, at very short notice, switches off
from. Norfolk jackets to khaki or from motor cars to machine guns, the farmer has only got to reverse," farmers, like the farmers of the rest of England, would have expressed their thanks for Government cultivat-
ing machinery for ing machinery, for loans to soldiers, and for further
State-encouraged help; but they might have askedwhemen who fill after the end of the war are to cultivate all this arable land? But, after all, the Government has promised assistance all the time. The Board
of Agriculture will not persuade men and women to of Agriculture will not persuade men and women to
convert the upper reaches of English valleys from sheep pastter
shelter and prospective difficulties northern farmers are convinced that they must take short views and do the next best thing, and that is to peg away extracting from
every acre of land corn or roots instead of grass or nothing.
are carefully inspecters, assisted by local committees ing as to which area of grass shall be ploughed out. They recognize that it is not every grass field that will succeed with wheat or any kind of cron. In the North
Riding alone there are 21 surveyors, numerous comRiding alone there and over a dozen tractors and ploughs, arranged for by the Board of Agriculture, at work, and the Government announce that they are prepared to send more
machinery. The West Riding County Councill has apmachinery. The West Riding County Council has ap-
pointed advisory committees and sub-committees by pointed advisory committees and sub-committees by
the score, and is entering into the business with infinite zest, in the belief that the Government will find the
requisite labor Many hundreds of acres in the Southeastern district are to be drained and made to grow corn or roots. "If a satisfactory peace comes within a
few months the food problem will be just as great as it is now, as the foodstuffs and the tonnage to bring them to England would continue to be short for some time," says Major Dent, one of the most practical authorities
in the north of England. Dairymen who think the new move does not affect them are, it is generally agreed, quite wrong. If in future a farmer does not provide
winter feeds for his cattle on his own land, he will find great difficulty in buying them; so, it is asked, had he
not better provide the feed his stock will need for milk


We believe that a fair conscription which organizes not only the man-power of the country but all its resources is the democratic and just means to fight the diversity of opinion in enforcement as it has done in passing through Parliament the boys at the front may not get the immediate suppory most of us would like that they should.

Would Organize Townships For Labor.

## Editor "The Farmer's

I understand there is something of a feeling of resentment among some of our city brethren, because farmers have not responded to their generous offer of help quite as well as they might have been expected to. Different writers have given different reasons as to why this is so. One man tells us that the offer came too late to be of much use during the spring, as farmers had already made arrangements for the season. Another man tells us that help has been scarce for years and farmers have gradually adopted a system of farming by which they have been able to get along alone. no doubt this is largely true, but I believe there is still another reason which I have not noticed that anyone has mentioned. It is the lack of organized effort among the farmers. The city men have gotten together, and because they have they are prepared to accomplish. The average city laborer would scarcely hear the call for greater production, but some day his employer waks up to him and says: "How would you like to go thought of such a tew weeks? "Well the fellow has never What kind of pay would I be able to get?" "You'll get just the same pay as you are getting here; if the up the balance", says his employer. In doing this the employer would be making a sacrifice, but he would be doing it prompted by the same spirit as causes him fellow says: "I don't know where to go to find a farmer who would want me, "Never mind that"
o your wr mind that", says his employer just go ahead and when well let you know where you are wanted with his work looking forward to his outing in the country and quite likely he will enjoy the change and quite city chaps for he was a nice fellow to have around the place. Now in the case of the farmer he may have heard that the cities are offering help, but oh! I suppose
he won't bother. But, suppose a neighbor called him on the phone and said, "How would you like to try a city man for harvest and threshing?". When you have tried him a while and he doess't suit just let us know and
we will take him off your hands." "All right', the farmer we will take him off your hands." "All right", the farmer him here." The result would be that farmer would get more land ready for nineteen-eighteen seeding, and from now until the ground freezes is the time to prepare for next year s crop.
But must we get a whole new organization among
larmers? To my mind our municipal cauncils would be doing quite the proper thing to take this be doing quite the proper thing to take this matter up do it. Surely in every township will be found ment glad to do a little in helping on in this great cause in
which we are all so interested. The reeves of the town whips have been appealed to, and perhaps many will take the matter hut there are some who simply don't ar to bother. The bother should not be very great. Suppose a man were appointed on every section of telephone line Then some one man appointed for the township. Le each of these men keep in touch with this one man.
Then the city organization would have to deal with nly one man in each township which should be more satisfactory and bring better results. This arrangement could be used also to utilize the supply of local labo and might be of some use in the distribution of seeds, atc. By reporting their activities in the papers occasion
ally they would keep the matter before their people and thus help to save them from forgetting; for it is a fact a man may hear a stirring lecture on the necessity
of thrift and production but will proceed to forget of thrift and production but will proceed to forget the matter is not brought to his notice occasionally.
Renfrew Co., Ont.
R. M. WARREN.

## Somewhere in Ontario.

Editor "The Farmer's Advocate": . . uThe Am always looking forward to a visit from The Farmer's Advocate" every Thursday, knowing that it
always has something good for me inside its old yellow always has something good for me inside its old yellow
hide; many a time when I did not know which way to hide; many a time when I did not know which way to take I came to it for guidance and help, and I can truth fully say with a clear conscience, it has never directed me in the wrong direction and I guess I can trust it still for I have always found it leal and true to the cans of the farmer. But there is one thing going on in this country that I am going to protest. I can not stand it a minute longer. It is like a man whipping his horse when they are doing all they are able, so I am going to kick clean over the tugs this time and no fooling abou it. When the war starled in Europe the Germans got to shooting gas at therio shooting gas goll of us farmer and keeping it up too, don't you forget it. A whole host of fellows are "hollering", at us: "Produce more. It started just before boiling sap time, and with cleaning over eighty head of horses, cattle, sheep and pigs, and I bordering on the three score years and no man or boy to help me, I have had more than I could do and just as I got done with the syrup seeding began an the lambs had to be looked after, and the wind tept blowing down fences and the windmill, and I had al the chores to do, and now that the cattle and sheep are on grass and the wool in Guelph and the corn and potatoes in, have just got time to wrow For quite a while I was able Hints." Got one nearly every day for a while, and sometimes two, then came another on growing vegetables. One would have been all right, but it came about as regularly as the daily paper, and now the election pamphlets have started, and everyone is trying hang, I won't stand it any longer, for I expect the fellows that are "hollering" the loudest at us over-worked farmers are spending heir time in a comiortably coo office with a good fat salary at the expense of the coustry,
and sitting in an easy chair, sucking smoke from 25cent cigars.
don't they clear Government want more production why offices at Ottar some of the hands out of those printing they will be a benefit to their country instead of a burden, as there is room for more men in the war and plenty of good land lying idle in Ontario? Yet what is laws in Canada to Produce more! when they have There is one thing the Ontario Government deserves great credit fors in Ontario. We hoped that the Dominion Government would also show their bravery by giving us. Dominion prohibition, but if they failed in that we must give them credit for leep ing one of the commandments which is hardest for $u$. weall seem to lokep: that wh and Canada ever had-booze. If food is scarce and the Government is in earnest and expect farmers to listen to them, why do they allow the destruction of grain to make intoxicating liquors
this fair Dominion of ours?
They advise us to get tractors. Have they taken the 40 per cent. duty off so we can get them without being fined, as it were? Have they taken the duty of any farm implements? Not they. They say they want to encourage the farmer. Let me tell them we are ful
of courage right now, but let them take off the brakes and handicaps.
Now, to the men who have been "hollering": "Pro-
duce more!", did you mean it or were you just " hollering?" Lambton Co., Ont.

Bhl the Earmer

## Canada’s Young Farmers and Future Leaders.

## The Boy's and Young Man's Inde-

 pendence on the FarmThe boy or young man on the farm is a big factor
the improvement of the farm and community as a in the improvement of the farm and community as a
whole, that is, provided he is the right kind of boy with the erght kind of father who is ready and willing to give him an opportunity to develop through actually trying
out new things on the home farm. The average older mind abhors change. The man past middle age and iikely to deviate much from his well-trodden path, unless some very steadfast pressure is brought to bear upon
him. The young man can often accomplish what the Institute lecturer can not, and what the agricultural years. It is through the younger men that those ineerested in scientific agriculture can do their best work-
and they realize it, and the young man has an influence and a duty. Who can perssade e' father", if his son can.
not? What will convince him and make him a "booster" more surely than will the suncess of his boy? Very
often fathers are inclined to ridicule some of the new
ite ideas and sometimes properly so, but generally where
a_method really has merit that merit can be shown by
the boy who takes the proper course in "getting around"
his father to allow him to rising generation of young farmers can be made of great rising generation of young ran
value even to the older men.
The writer remembers the case of a young man who look a short course at the O. A. C. some years ago,
while there he learned that it is a good plan to plow potatoes down about five inches deep every third furrow on land well prepared. After considerable talk and after getting the infuence of his mother with him, the
father was persuaded to depart from his way of years viz., making holes with hoe and dropping by hand covering only about two inches deep. It took a lot of
persuasion but the by suceeded. The potatoes, went persuasion but the boy succeeded. The potatoes, went
in five inches deep every third furrow, and the boy in five inches deep every third furrow, and the boy
plowed them down to be sure he got them in to suit plowed them down to be sure he got them in to suit
his notion. The land was thoroughly harrowed the nis hit they were planted and several times before the
potatoes came up, and once or twice after they were potates came up, and once or twice after they were
through the ground. Planted according to his father's through the ground. Planted according to his father's
method this harrowing would have been impossible and method this harrowing would have been impossible and
the potatoes would have required hilling up. Plowed in they did not require hilling, and the tubers were down to the moisture and turned out the best crop ever grown
on the farm. It was the crop that convinced "father"
and the neighbors round about saw the wisdom of the
"boy's'" new method. No one can estimate the walue "boy's" new method. No one can estimate the value
of the introduction of the new method into that one neighborhood. It was not a potato-growing section, but each farmer tried to grow enough for his own family and a few besides. The boy's idea saved hand cultivation and gave bigger yields. Many took it up, and
yet some there were who were too stubborn to be vinced. Yet the instance just shows how a boy can influence his father and eventually his community if he really has a new idea which will bring results.
We have known many cases where the boy, after a trip away from home perhaps to a sale of pure-bred
stock, or, mayhap to a Short Course in agriculture, stock, or, mayhap to a Short Course in agriculture, or even only to a neighbor's farm where choice stock is
kept, has become enthusiastic and upon his return kept, has "become enthusiastic and upon his return
home has "pestered" his father into the use of higherclass, pure-bred sires and the purchase of a few pure-
bred females. Many a good and profitable herd and bred 'females. Many a good and profitable herd and
fock have been buil flock have been built up from such a start. It is the
boy's duty to "pester" his father on such a subject. boy's duty to "pester" his father on such a subject.
In fact, the farmer should encourage it rather than In act, the farmer should encourage it rather than ap-
pear disgruntled over the boy's enthusiasm. He should pear disgruntled over the boy's enthusiasm. He should
be proud of the boy's interest in better agriculture.
It is a good sign and an assurance for the future. Get
a boy interested and do everything in your power to maintain that interest, and the family name on the old farm is not so likely to change, as where father
on every new idea "John" gets away from home on every new idea "John" gets away from home.
And boys, you can often succeed better by expla ing things to "mother", first and getting her co-operation to infuence "dad." "Mother" is the most sympathetic to boy's appeals. She is always ready to listen to plans for adventures to be made by her boys. Her
judgment is generally good. Explain to her first and enlist her help and you are a long way along the new road for "father." "Mother" will always give the boy a chance, but father will often take no chances himself nor is he willing to take any with "Bill," his son. Many a mongrel-bred flock of poultry has been converted
into a profitable flock of pure-bred egg producers through the boy working with his mother toward that end. Many a mother has saved enough money out of her butter and eggs to buy a few settings of eggs from pure-
breds for the boy, and generally the boy has made good. His work with them has demonstrated to his father that there is more money in good hens properly looked ater
than in mongrels on the manure pile. His mother's than in mongrels on the manure pile. Hlo has bolstered mof loss and discouragement until finally, "father," the "man Irom Missouri,", who must always be shown to be co
vinced, sees that the boy has made good and is then an enthusiast himself
There is'a great deal in variety in grains and other crops. Many a farmer loses yearly by using un-named and unknown varieties when he could just as well be sowing the best. his variety of grain through the work of his boys who have tried out small plots of tested sorts sent out from Guelph or other centres. The boy heard the new sorts well recommended by men who knew what they were talleng aboun. He persuade their
own varieties. The results did the rest, and the in
fluen the whole farm
These are merely instances. Remember that as fathers grow. older they grow more set in their ways,
yet they are all proud of the success of any yenture yet they are alh proun, Fathers who have farmed for years are practical men. They have learned a great deal by experience. They are naturally suspicious of new methods. The rising generation see things dif.
ferently. They are anxious to improve on former ferently. They are anxious to improve on orn fluence upon the older men on the land should be ap parent. Be sure you are right boys and then show "father." He'll boost for you as soon as convinced Always remember, however, that his judgment is ma ture, that his counsel is for the mart wise, that hart on a small scale and increase as results warrant.

## Automobiles, Farm Machinery and Farm Motors

## The New Things For 1918.

Advance information from a great many factories indicates that there are not going to be a large number inements, however, are to be added. We think it is safe to say that power plants will not be altered to any appreciable extent. There are a number of interesting problems that have been worked out, however, chief mong which is the installation of a theremostat upon the generator of self-starting cars. This means that the cooling system in the generator will be held back in were made with the idea in a cold storage plant, and it was found that the system worked satisfactorily. big advantage to this inauguration is going to come opeople who do a great deal of city driving, with many new machines are going to have what is known as a butterfly attached to the carburetor, and it is hoped that his device will permit the burning of even the lowest rade of gasoline with good results. A number of 1918 expected that the power of the engine can be in y expected that the power of the engine can be in-
creased without any addition to either the bore or stroke. Another interesting innovation is going to te the ad ition of dust caps around the bases of the push rods The changes in body styles are many but mostly
minor importance. The sloping windshield, of which minor importance. The sloping windshield, of which e have already seen a little, will be more prominent. supplied with rubber bumpers, and those which do not over-lap will, in most cases, have rubber straps. In ther words, a real effort is being made to have the windshield rain-proof. In three States of the American Union there are now regulations regarding search lights. not shine higher than 42 at a distance of 75 feet It is not anticipating legislation when we state that it is not going to be long until this rule uill be adopted in Canada, and consequently some of the new cars
have lenses instead of sheet glass in the front lights

## THE DAIRY

Don't neglect the cows' feet. If the hoofs get to

At the Rutherford Jersey sale in Indiana 81 head lrought 81,270 . At the Boyd and Dix
sanne State 49 Jerseys averaged 817081

If a cow has the habit of sucking herself attach two ordinary rings to a bull's sing and put the lat
in her nose. It will not interfere with her grazing. If a cow is milked right up to the time of freshenings, she has no chance to build up reserve force to enable
her to profuce a maximum fow the next lactation. Disease exacts a heavy toll among young stock every vear. A Altite more care of the dam both before and
after the call is dropped might reduce the mortality The New England Ayshire Club held a consign
ment sale at Springfeld, Mass, and 54 head brought
 number of the best were purchased by Canatian breed ers, anc Ayrshire men may have an opportun
ing them at some of the exhibibitions this sall. Theorericilly and from a practical standpoint milk
one of the cheanest



Flusling the womb with a disis fectant after the calf
dropped and continuits
 liree weeks, will aid in preventing contagious abortion
l.ecoming estallished in the the herd.
Intection may be

nd others have caps over the incandescent bulbs Both ideas are calculated to keep the motorists wel inside the law. Next season will doubtless see the elimination of three-quarter rear door. Practically all cars
will have full U doors, which are certainly more con will have full U doors, which are certainly more con enient for the entry and exit on conneau passenger here seems ode and the upholstery will in most cars be plaited and buttonless, the purpose of the manufacturer being to provide seats that are not only comfortable, but seasily cleaned. Not many changes are worthy of mention in so far as tops are concerne windshield will make the top deck smaller, and the genera appearance is also altered, in numerous instances, by the installation of gypsy back curtains. These come around on the side of the body in angular fashion and protect passengers from Hand pads which appeared on quite a number of models during the current season, will be more generally adopted o prevent the disfigurement of the door tops by dirty or soiled hands, and add to the general attractiveness a he body lines. Holes are being added in the side apron Iso being placed in the drip arons of certain designs or render easier the draining of the crank case. Radiators which were previously considered too smallifor adequate cooling, are being widened and heightened, and follow ing such a change, the hoods are also being raised. seneral effect is to give a straighter line to the top of
he body. Some machines which were not good hil limbers on second speed, are being provided with climbers on secon speed, are being provided with a A few years ago there seemed to be a fad for loud olors, but this seemed to die down during 1917 and in 1918 will reach a still more moribund condition. People are beginning to realize that dark colors give the greates for a wealthy man to have some loud ornate aterorativ effect, but the average motorist is only able to afford one automobile and he is rapidly coming to the idea
that the sober, staid varnishes wear best, both mentally and physically. Most cars will have additions to their instrument board. The high-priced models have alway been well equipped in this respect, but even the oil sight feed glasses, storage battery charge and dis charge indicators There also seems to be an inclination to make the instrument boards narrower. This provides easie manipulation as well as a greater view of the foot room

## Disk Harrow in Road Building.

A recent bulletin published by the Department of Agriculture in the United States recommends the use of the disk harrow for improving earth roads. "Whethe or not it is necessary or not to contend with any consider "the quantity of sod," says the author of the bulletin in securing the disk harrow usually will prove helpfu ing machine. In general it is sufficient to give the loosened material a thorough harrowing after the road has been brought approximately to its required shape but before the final shaping is done
This sounds like a very good suggestion. On the great majority of country roads the surface is not built to any uniform grade, with the result the surface is very road builder had imagined. Some people scoff at the idea of putting in a few grade stakes when building our country roads. We would have no good roadbeds on our great railway systems without the use of the level. In such country of sins. Of eowse, how to build roads. Remember that surface drainage to the side ditches and from the side ditches away ${ }_{i}$ just as important as grading. Water lying in the ditches
seers into the road and softens it.
it might be possible to isolate diseased animals and thu stamp out the disease, but in the first stages the symp toms are not sufficiently noticeable to attract attention Consequently an animal running in the herd may have tubercular lesions in some part of its system and be continually spreading the germs. When physical
symptoms are first noticed the disease may be wel advanced. When lungs and air passages are affected a cough and heavy breathing are the first indications o
trouble. If the digestive tract is affected trouble. If the digestive tract is affected, a loss of flesh is generally the result. The germs attack the
body tissues and form nodules which contain cheesy matter or pus. Possibly many have seen these nodule when slaughtering cattle, hogs or poultry. They are very often noticeable on the liver, and lymphatic glands.
As these nodules break down germs escape from the

The tuberculin test is a fairly accurate means of de termining whether or not a cattle beast is infected
When attempting to control the disease the autho of the circular previously mentioned claims that ther should be co-operation of farmers, stockmen and dairy
men, with the officials in charge of control work. The men, with the officials in charge of control work. The
animals showing clinical symptoms should be slaughtered and the tuberculin test administered to the remaining animals, and the reactors isolated. Barns which have housed infected animals should then be thoroughly cleaned and sprayed with a disinfectant to destroy the
germs. Manure piles should be removed to the fields where the animals cannot come in contact with the material. In dark, poorly-ventilated stables the bacillus every means should be difficult to kill, consequently building up a healthy herd from tubercular anima has been found efficacious. The reactors are housed in a barn separate from the healthy stock, and the
two herds are attended by different stockmen. Tools and utensils are not interchanged, and every effort i put forward to avoid carrying infection. A calf dropped in a tubercular herd is immediately removed and fed
on the milk from a healthy cow. In this way the offspring of valuable breeding cow. In this way the off spring of valuable breeding animals have been raised there is only one set of buildings and one man to do al


Chapmanton Heny (Imp.
Prevent Tuberculosis Gaining a Foothold in the Herd.

out. However, when an animal shows clinical symptoms it should at least be isolated from the main herd,
and so eliminate the danger of spreading germs by means and so eliminate the danger of spreading germs by means
of sputum or excrement. Stockmen should co-operate in preventing the spread of this contagious disease, in preventing the spread of this contagious disease,
which not only causes loss of tive stock but endangers human life. As a large quantity of milk is consumed in the raw stage it is important that dairy herds be clean. Some towns and cities demand milk from tubercular-free herds, while many consumers in other
towns have their milk supply pasteurized. In this way a good deal of danger to public health is eliminated it is believed that young stock become infected throug consuming dairy by-products from infected herds This is a strong argument in favor of pasteurizing skim nilk and whey to be used for breeding purposes.
Tuberculosis is rapidly becoming more prevalent the percentage of tubercular hogs in some large packing houses has practically doubled. This may be due to the fact that the disease is transmittable through dairy by-products. Milk received at the creamery or factory
from a few tubercular cows may be suffient from a few tubercular cows may be sufficient to infec
a number of herds of hogs if fed on the by-products. In order to prevent the herds, becoming infected new stock subject to the tuberculin test so purchasing may avoid introducing diseased animals into the herd Breeders who can guarantee their herd free from disease are few in number. Stringent measures should be
adopted to prevent adopted to prevent this disease becoming more pre
valent. Now is the time for breeders to strike tuber culosis a heavy blow. Test and examine the herd and if clean all well and good, aim to keep it so, but if there is a reactor in the herd no time should be lost in isolat ing her from the healthy stock. One or two diseased
animals are easier to look after than half the herd, and animals are easier to look after
the loss will not be so great.
At a dairy breeders' association meeting, in the his experience Fred. F. Field, of Massachusetts, gave from his herd. He claimed that it is possible to clean up the herd, but one must assume that all the cattle are tuberculous and pasteurize the milk. He advised on pasteurized milk. The stable should be disinfected and whitewashed and large windows put in. A physical examination of the cattle should be made, and cultures taken to see if they are spreaders. This means applying the bacteriological test to samples of sputum, excreta
and milk. This must be continued and spreaders kept from the rest of the herd.
Some argue that what we don't know won't hurt us, but, is it justice to humanity, to the dairy industry or to the individual dairyman himself to continue
marketing milk from cows which he is not sure are free marketing milk from cows which he is not sure are free ures will have to be taken to protect human life and the live-stock industry. It does not necessarily mean that a reactor must be destroyed, but her milk should be
pasteurized before being consumed raw, and skim-milk pasteurized before being consumed raw, and skim-milk or whey treated the same way before it is fed to stock.
This precaution alone would considerably check the spread of this disease. A tubercular cow that is a spreader of the disease is a dangerous animal to have
running with the herd. Prevention is less expensive running with the herd. Prevention is less expensive
than being forced to make a clean-up after a disease has become established. Young men laying the foundation of a herd might well start with tubercular-free near future there will be a big demand for such breeding stock, and the men starting first will have the advantage over those who follow the even tenor of their
way and keep putting off the day of ascertaining whether or not their herds are clean.

Delivering and Shipping Milk and

## Cream

Very often the quality of milk and cream deterior ates considerably between the point of shipment and Proper care at the dairy should be followed up in transit There are certain precautions to ensure the products remaining sweet and clean, which do not require much
ime or extra effort. It is well known that milk products
soon deteriorate if left exposed to the hot sun for an second or third-grade milk or cream. There should
hour or more, but where one man draws milk or cream be a spirit of co-operation existing between cheece-andIor a number of patrons the sun reaches a considerable butter-makers and their patrons. height before the end of the route is reached. If the placed on the suand be on the point of turning when might easily render it unfit for cheese making before the factory is reached. This fact might well be taken into consideration, when the milk is returned some morning as sour, instead of the dairymen blaming the cheese maker and vice versa. If shade were provided temperature rising to the point at which lactic acid bacteria work rapidly. A large tree on the south-east side, or that side of the milk stand boarded up, would serve the purpose. One can of sour milk dumped in the vats prevents the coagulating material from working


Rhoda Parthenea Caprice 2nd 14178. even-day record 502.3 lbs . milk and 23.55 lbs . butte

Typical milk stands are herewith illustrated. The top is about on a level with the milk drawer's wagon so as to facilitate his work; when thirty-gallon cans are
used the dairyman las heavy work placing the cans used the dairyman sas heavy work placing the cans
full of milk on the stand, where pioper steps or derrick are not constructed. Cans may be slid up on a couple of planks, but even then it is a man's job. At small expense an arrangement can be made that will greatly
lighten the work. A rost is sunk in the ground about lighten the work. A rost is sunk in the ground about eight feet from the stand with the top about eight feet irons which will permit the pole to move up and down as well as be swung around. The end to which the can is to be attached should not be over half the length ide of post, less than half
lightens the lift but makes it harder pulling the end it hard to attach to the can. This attachment is
a crosspiece the width of a crosspiece the width of the can, having a rod at
either end long enough to
reach the handles of the either ench handles of the
rean. If the pole is propcan. If the pole is propmuch energy is required in lifting the can to the
stand. It is no disgrace
to lighten the work as stand. to is no disgrace
to lighten the work as
much as possible. Physimuch as possible. Physi-
cal strength is not so much the standard of
efficiency to-day as it used to be.
Keeping fresh milk cool and where it cannot become contaminated a little more shade around the milk stand and either jacketed cans or covered wagons for marketing will all aid in
giving consumers a highgiving consumers a high-
class product which in turn will tend to increase consumption of milk and its products. Many fail
to realize that the higher to realize that the higher
the quality of the product the quality of the product
marketed, the better it for their business. évery patron should aim at having the milk delivered Consumers deal where they get the best service and are as fresh as possible. As a rule, from twenty to thirty- willing to pay the extra price. Put up the right class
gallon cans are used in cheese-factory districts. This of goods and a market will be found. There is seldom gallon cans are used in cheese-factory districts. This economize space on the wagon. The small cans, as shown in the illustrations are generally used when shipping milk and cream and are convenient to handle. On a heavy milk route the wagons are sometimes built is used, it is essential that it be of good-quality material with the seams properly soldered so as to make cleaning as easy as possible. Cans may appear clean to the eye but yet have enough milk adhering in the crevices to contaminate the entire lot. After rinsing with cold water to remove the bulk of the milk, scalding will
complete the cleaning. Warm water is not enough complete the cleaning.
to clean any dairy utensil.

When sweet cream is being shipped or drawn some dairymen have a heavily-padded casing for the can so as to eliminate the effect of the air teraperature on the cream. This insulating material keeps the product
in the can, even when exposed, at about the same in the can, even when exposed, at about the same
temperature as it was in the dairy. In other districts milk and cream drawers have a covering for the wagon which protects the cans as well as themselves from the sun's rays. These factors go a long way towards delivering the raw material of the dairy in a condition that it can be manufactured into the product of finest
quality. To aim at anything short of the best is not being fair to the business of which you are a part. If Canadian cheese and butter are not of the highest standard, both producer and manufacturer are to blame. One cannot sade entirc upon the other, al hough
willing to pay the extra price.
of goods and a market will be fou
a surplus of first-quality material.

## POULTRY.

## Roosts.

We were in a new poultry house the other day and the only thing we found fault with was the rooste They were of the old-fashioned ladder type one above
the other. Too many farm poultry houses are conthe other. Too many farm poultry houses are cont
structed on the same principle and it is wrong. Roosts are important and yet often carelessly constructed $\mathbf{F}$. C. Elford Dominion Poultry Husbandman, in Bulletin 87 says of them:
"The American breeds require about 9 inches per hen of roosting space. If more than one roost is required, place the first about 10 inches from the wall and the others from 18 to 20 inches apart. When cold
houses are constructed, it is advisable to have only sufficient roots to accommodate the hens. Roosts should not be placed too high; between: 2 and 3 feet from the floor is high enough for most breeds. High roosts give trouble in that heavier birds, are not able
to reach them and the jumping off the roósts sometimes to reach them and the jumping off the roosts sometimes
causes bumble foot and kindred diseases. Roosts should never be constructed on the ladder principle, but where more than one roost is required they should all be placed on the same level. Where roosts are placed one highe


Drawing Milk to the City


A Typical Milk Stand

## THE FARMER'S ADVOCATE.

Founded 1866
night as the hens are getting on to the roost. night as the hens are getting on to course take the top places. The strong, vigorous hens, going later also wish for the top seat, and displace those already roosting. This occurs every night
all means put the roosts should not be large. The small edge of a $2 \times 4$ inch scantling is quite large enough. Round cedar poles serve the purpose very well, but the splitting of the poles causes cracks in which the vermin harbor. Roosts should be made so that they can be cleaned It is a good plan to hinge roosts to the wall so that they can be raised in the day-time or for cleaning-out purposes. The roosting quarters should always be on the warmest side of the house, or at least, farthest away from the windows. No ventilation should be near the roosts; sometimes, when nights are especially cold, a cotton screen is let down in front of the roosts. It is an advantage in that it keeps the roosting quarters a little warmer, but the custom of boarding up the roosting quarters so that there is very
little ventilation allowed and no space for cleaning or little ventilation allowed and no space for
letting the sun enter during the day, is bad."

## Weed Out The Male Birds.

Editor "The Farmer's Adiocate
The worker bees put their house in order by killing off all the male bees as soon as their services are no longer required. What a great benefit it would be to the poultry producer and the poultry product consumer
if the hens of the flock would likewise dispose of the If the hens of the flock would likewise dispose of the
male birds in those flocks that are indifferently managed. The worker bee permits no star boarder to loaf around and consume the product of her labor. The hen is not
like the bee in asserting her rights. If she were, then like the bee in asserting her rights. If she
her verdict would be, "Rooster you must die."
There are over two million five hundred thousand
roosters of the various breeds of chickens kept for breeding purposes by the people of our country. Of this vast army perhaps one hundred and fifty thousand have a right to live for another year of service. One hundred and fifty thousand may be good enough as individuals and in breeding to be used in the increase
of their kind. What of the two million three hundred and fifty thousand that are usually permitted to live, birds that consume feed, worry the hens and reduce the quality of market eggs?
tribute germ cells, during a short period of three months tribute germ cells, during a short period of three months
February, March and April. These germ cells should February, March and Aprich These germ cells should are desired to perpetuate the breed. The germ cell is a living organism capable of starting a chain of de-
velopment, and here is where the mischief lies if they are distributed where they do not serve their proper function in race perpetuation.
The function of the modern hen is to produce eggs,
ten per cent. of which may be desired for the increase ten per cent. of which may be desired for the increase of the breed and the remaining ninety per cent. for human
food. Nine eggs are used for human food where but food. Nine eggs are used for human food where but that a hen lays require fertilization. Why fertilize the nine-tenths of the product that is used for human
food? The addition of a living germ cell to an egg that food? The addition of a living germ cell to an egg that
is produced for human food does not add anything to is produced for human food does not add anything to
its value and may set up a chain of embryo development that will make the egg quite unfit for human food. Eggs gathered from flocks where the roosters are
permitted to run after the hatching season is over, are not desirable for storage. They are not desirable in the pares will start incubation. Egrs in the first stage of decay are not desirable for human food.
It is an easy matter to prevent the fertilization of
eggs. If the male bird is just an ordinary one an axe If the male bird is possessed of such merit as woulf warrant his being boarded for a year to be used in the next season's breeding operations, then give him an enclosure of his own and see that he stays in it.
The cost of food consumed by an ordinary rooster is keep poultry with profit as your object, can you afford keep poultry with profit as your object, can you afford
to keep 2 star boarder for nine months and perhaps have him doing mischief all the time?
The two million, three hundred and fi'ty thousand odd, unnecessary male birds are costing the country
about three and a half million dollars per year while enjoying life. These unnecessary birds are at the same egg-preducing business. If every person owning a rooster would manage him as a male bird should be
managed the poultry industry would be benefited by managed the poultry industry would be benefited by mental Farms Note.

A Few Hints For Summer Flock Care.
On many farms there is a heavy loss in the flock due
to various causes
White the birds on free range should to various causes. While the birds on free range should
naturally be healthire than when in confininentent im-
proper feeding oro hot weather and the high tempera-
ture apparently ture apparently lowers the vitality of many. Usually
a number of chicks succumb to various ailments, and
they are thrown out of the pen with harely a thoubt they are thrown out of the pen with barely a thought
given to the cause of death. They may have died of
some contagious disease, but no investigation is made
mainder of the flock might have been saved. A chick or even a mature bird is hard to doctor, and it is often times advisable to put them out oreading disease germs. An endeavor should be made to keep up the vitality of the chicks. It is the strong, healthy, vigorous pullet that makes the profitable hen. Weak, anemic birds seldom lay a sufficient number of eggs to pay fould be
feed. In the first place the breeding stock should ceed. In the first place the the chicks raised on wholesome feed and kept in sanitary surroundings. Filth and dirt is the breeding place of disease, and it is regrettable that too many poultry houses are not in a sanitary condition during the summer. Give the growing flock new scratching ground oce the coop Some poultry-keepers day, claiming that in this way birds are kept cleaner and healthier. This is more or less essential with young turkeys, as nothing puts a poult of the same ground. The chicks should have a keen appetite and always be ready for their feed, but that does not mean putting them on short rations. Feed them what mash they will clean up in ten or fifteen minutes, then remove the surplus and clean the trough. If the grain is fed
in a litter or even in a hopper the birds will not overin a litter or even in a hopper the birds will not over-
feed if given an opportunity to exercise. The care of the growing flock will influence egg production next winter.
In regard to the mature birds they require a little different feed than in the winter. Corn should be eliminated or nearly so, as it is too heating and whe is the standard grain for fowl the year round. As it is


Bracing the Load.
vantage. Good quality oats are excellent grain for poultry, and might comprise half the ration during the
summer at least. They are not of a heating nature and summer at least. They are not of a heating nature and also be fed to a certain extent. The kind of feed and nature of the surroundings go a long way in keeping the flock healthy.
Tuberculosis is one of the most serious diseases the poultry man has to face. It is necessary to watch fo-
this disease summer as well as winter. It is this disease summer as well as winter. It is just as
necessary to keep poultry houses clean and disinfected in summer as in the cold weather, and even more so.
Watch the hens. Any which show signs of going light grow pale around the head, mope around and some times show lameness and diarrhoea should be removed from the flock. Those showing well-marked symptoms larged or show white or yellowish-white raised spots, there can be little doubt but that the disease has gained
a foothold in the flock. Kill and burn or bury in lime a foothold in the flock. Kill and burn or bury in lime
all those showing disease. Clean up the chicken house, Disinfect by an application of whitewash to which has been added a 5 per cent. carbolic acid solution. Plow
up the poultry yards and apply fresh lime. You canup the poultry yards and apply fresh lime. growing more prevalent in farm flocks as the years go by.

## HORTICULTURE.

Loading Climax Fruit Baskets in Cars.
The fruit and vegetable industry in this country is
developing, and the climax basket is extensively used as a container. As co-operative associations extend
their business carload shipments are called for, and this necessitates expert or experienced hands in loading.
This end of the business is immensely important, for upon the methods adopted or skill exercised in stacking
pearance of the product at its destination. In a recent
bulletin compiled by Edwin Smith and J. M. Creelman, formerly connected with the Precooling and Cold Storage Plant at Grimsby, are on loading cars with and accompanying illustrations on loading cars climax baskets. Told Storage Branch of the Dominion Department of Agriculture, and we have taken th
from it in the following paragraphs.

The climax basket is used largely throughout the fruit regions of the northeastern part of the continent in marketing summer or tender fruits. In Canada the e-quart climax basket is $131 / 2$ inches deep, $57 / 8$ inches at the bottom, holds from 6 to 10 pounds of fruit, and is used largely for distant shipments of cherries, gooseberries, currants, plums, pears, peaches and grapes. The 11-quart climax basket is $53 / 4$ inches deep, $183 / 4$ by 8 inches at the top, and $163 / 4 \mathrm{by} 67 / 8$ inches at the bottom, contains
20 pounds of fruit, and is used with shipments of cherries, plums, peaches, tomatoes, vegetables, pears and apples. Larger baskets, 15 -quart and 16 -quart in size, are used for cantaloupes; smaller baskets, 4 -quart in size, are sometimes used with plums and grapes.

In theory all baskets should run lengthwise of the car to give free spaces for the passage of cold air from-
the ice-bunkers to the centre of the car; baskets crossing the car shut off these currents. In practice, it is difficult to do this, on account of different in the same car, and also due to injury inflicted on the fruit in so placing. To partially obviate the fault of having baskets running crosswise of the car raised floor racks are used, slatted to accommodate the different sized baskets. These allow a current of cold air to pass freely from t
to the centre of the load.

In loading a car of basket fruits, it is first necessary to know the number of baskets to be loaded. ordinarily quart baskets, are required to make the minimum carload weight, 20,000 pounds. Baskets are placed along.
the end of the car and down one side, as far to the centre as the load can be made and allow room for centre bracing. The height of the load is then computed. In case the load is to be made partially of 6 -quart baskets and 11-quart baskets, it will be necessary square up" the load of one type of baskets, placing them all in one block. Loading is then started from the bunkers the full height of the load. For rapid loading, operations may start at both ends of the car at once. It is
necessary that the baskets be kept pressed firmly necessary that the baskets be kept pressed firmly
against the side of the car, and, as the load progresses, every basket should be put in place squarely and firmly 0 as to keep thect. This is necessary to get a rigid alignment perfect. This is necessary to get a rigid wards the side of the car and at the end, where a bulkhead is to be placed squarely across the carn.
In finishing off the last two tiers, an alley will be
formed in which it is difficult to work unless the baskets formed in which it is difficult to work unless the baskets are squared up three-piles or four-piles (meaning that
the piles are built up squarely on a base of three or four baskets). It sometimes happens that, due to an oddsized car or odd-sized baskets, the alley will be too wide
so as to make a "loose" load. This can be determined so as to make a "loose" load. This can be determined before the load has been made, when the baskets are placed across the end. In such a case, it is advisable
to place several baskets crosswise throughout the car to tie the load.

Basket loading does not require as heavy bracing effective in tying the load. Six 2- by 4 -inch braces are sufficient. They need to be squeezed into place with
a sledge-hammer securing the braces with blocks and spikes. The gates should not be farther apart than is convenient
sufficient.

## New Varieties of Strawberries.

Considerable work has been done during recent years
with theobject of originating varieties of strawberries that may combine the good characters of our established kinds without possessing their undesirable qualities or weak-
nesses. The Horticultural Experiment Station at Vineland and the Horticultural Department of the Agricultural Col'ige at Guelph have been devoting considerable time
to this enternrise and this year Prof I W Crow at the to this enterprise, and this year Prof. J. W. Crow, at the
Guelph institution, is fruiting 300 different plants which are selections from over 7,300 plants. Prof. Crow will welcome any strawberry grower during the fruiting
season, and explain the parentage as well as the good and and bad qualities of the most promising varieties which and bad qualities of the most promising varieties which
have been originated. A card addressed to Prof. Crow
will bring information as to the season and date of fruit-

neceasary precautions when the first few died the the

Mounding up to Combat the Peach Tree Borer.
The peach tree borer ranks next to San Jose scale
the most destructive insect attacking the peach
 in Ontario, and are to be seen up untill the middle of period. Eggs are laid on the trunk, branches, leaves and
occasionally in the round near the tree. On hatching
 and gradually eat througt hhe bark. some of them are still very small by winter; others are almost full grown.
In Bulletin 241 of the Ontario Department of Agriculture, Prof. L. Caesar recommends the following treat-
ment: forithe customary method, and one that has given Byear once in October, and once at the each ore olwice or
in early June, and with a sharp knife dig out and kill in early June, and with a sharp knife dig out and kill
all arvex found. In searching for them the earth should
for iirst be removed irom around the trunk to the depth
of thrire or four inches, because they often work below the surface. Their resesence can nearly always be determined
by the masses of gum that exyde trom the wondd by the masser of gum that exude from the wounds.
This should first be removed with the knife or trowel, and then by cutting along with the grain of the bark
so as to do as little damage to the tree as possible.
 a height of 6 or 8 inches, is heaped up around the trees at the end of Juneit forces the larve to work higher up on
the trunk, and thus, when it is removed, they can be more easili found and destroyed. The earth should be put back for winter of the trees to force the larvæ to work far the trunks the trunk so they can be dug out more easily. In badly infected orchards any precautions such as these a

## FARM BULLETIN.

## Our Scottish Letter.

Since 1 last wrote, now five wekk agoo, great progress
abeen made by every crop on the farm.
It is
hard to has been made by every crop on the farm. It is hard to
believe that less than two months ago we experienced believe that less than two months ago we experienced
one of the worst lizzards known in the lifitime of the oldest inhabitant. The blizard of 17 th April, 1917, will not be forgotten for many a day, yet here we are
to-day, at the close of the first week in June, with vege. today, at the close of the first week in yune, with vege-
tation as far advaniced as it generally is in $\begin{aligned} & \text { and }\end{aligned}$ normal tation as far advanced as it generally is in a normal
season, and every prospect of heavy crops of all kinds of season, and every prospect or heavy crops of all kinds ol
produce. The one mistortune is that on account of the
 called for. In exn onsequence of this, while there is is likely to be a satisfactory y yied per acre, there is nothing like
the extent of acreage which the exizencies of the conty seem to demand.
For the nonce the thoughts of agriculturists are bring
centered rather on the crops of 1918 than on those 1917. For goo or or ill the areat to be sededed this year But we are in the midsut of talightning campaign to greatly
increase the seeded area in 1918 The calling upon farmerserea trieak oup grass lane anemd riow
cereals and green crops. It bolldy demands that where the issue is be ween stock and crop, stock must go.
One important excention is made to this demand
Dairy One important exception is made to this demand. Dairy
catte emust on no account be sacrifced. The milk sup.
 Yet both labor and feedigns stufts are extrementys carare,
and there is the possibily that feeding stufs will be


 vith a small quantity of bean meal or or cotto ceake,
Should the threatened shortage materialize the problem

 power in our agricillutural camp.
Apart from its dairy side, the problem of increased
sod production is by no means easy of solution. The
soa it Sea, ir hauction is bhy no means easy of solution. The
Then well said, which was considered Great Britian's strentt hans suddenly beocom her weeknest.
The enemy submarine has altered many things, yet gradually we are obtaining the mastery over it. Each
weck is showing a raduction
 Neutral nations trading with our shores. There is
feason to believe that we are steadily taking a heavy toll of these U boats. Unfortunately one cannot believe all rumors, but we may at least conclude that
the menaec is being hececked, and that, did we possess
conuthen
 Onnage scarcity there is, no doubt, a world shortage of
cereal crops, and it is necessary for this country to enleavor at all oosts to grow enough grain to feed our
poople ine montris out of the twelve This is the goal
it
 nittees exactly how much fresh land must be put under
ing these food problems on their merits, and independent not as they are rendered acute by the exigencies of War ver. One will remain for solution when the War is supporting on a sound, economic basis, but the United Kingdom cannot become self-supporting save at a pro-
hibitive cost.
During war-time no cost can be regarded as prohibitive if by means of it the peont be regarded Eve if every bushel of grain the people can be fed
which graently the grain must be grown. The value of the produce Ined the last resort wars are won by the nation which can War policy of the Government period of time. The a minimum price for the farmer, a minimum wage for The farmer may get more, he cannot get the landlord suaranteed minimum price; the laborer may get more, he cannot get less than the guaranteed minimum wage,
but the landowner may have the rate mortgages raised, his costs for repairs greatly ent on his and his own wages bill substantially advanced, but he cannot advance the rents of his tenants, who are not moving, one penny. This has been criticized as very
unfair to the landowner, but such is the temper and mood of the times, that no one troubles much about this and each goes his several ways. It has been well said that as things aje there are really three prices for all farm produce; there is the fixed price which Govern-
ment guarantees to the producer thee is ment guarantees to the producer; there is the sale price
at which the stuff may be sold in the open market, and there is the production price, the figure at which the crop could be raised and harvested. Increased crop production can only be attained by intensive farming.
Many thoughtful men maintain that the Government scheme begins at the wrong end. In place of urging an extension of cultivated area, a premium should be put upon more intensive cultivation of the area already
under crop.

There can be no doubt that to a certain extent this that there is a vast amount of really bad fly eving in this country. It is only here and there that one meets with land that is growing its limit. Even in the same parish on adjacent farms there are great differences to bountifully. In a paper read this week to the Farmers' Club, London, Allan C. Young maintained that there is a point beyond which intensive farming cannot be prosecuted and leave a profit. This is contrary to are agreed that some outside authority should be appointed to determine whether a farm is being cultivated to the best advantage. The difficulty is to know how to constitute such a third party with powers. Some would call such an authority a Land Court, anCourt, while a third happily suggests that it be designated a Board of Conciliation. The essential and surprising fact is the universal argument that in the interest of
the Commonwealth neither landlord nor tenant can be
allowed to cultivate a farm in a slovenly and unproducAllowed to cultivate a arm in a slovenly and unproduc price for farm produce, the State will demand and exercise the right to supervise the operations of every man to whom the guarantee is given. A farmer will
do his best, provided he understands his business, when do his best, provided he understands his business, when
he enjoys security of tenure, has his rent fixed by a third party at a rate which is fair to all parties, and is guaranteed adequate compensation for improvements effected by him should he be compelled to relinquish these in provements to another betore he has exhausted them.
One notable result of the demand for enhanced cro production is the attention being bestowed on mechanfor farm work This spring several potato planting machines have been put upon the marpotato seeds of varying sizes. The bed potato plante sknown as the "Richmond"" planter. It potato planter y Gordon Richmond, farmer, Don, Bridge of Earn Perthshire. Like his father before him this young haracter, and his plater has been evolved stage by stage under his own eye, untilt this season it has fairly aptured the market. Anything that increases the ready sale in these days.
We are having much protesting on account of the suspension of horse racing by the edict of the Govern-
ment. Some surprising statements are being made by ment. Some surprising statements are being made by hase urging that the suspension of racing even for are urging that the suspension English Thoroughbreds On the face of it this argument is overdrawn. It is inconceivable that any such disaster should follow mere suspension of racing. Even granting that such
short races as are now popular are fitted to develop the stamina and grit of the Thoroughbred, it is un conceivable that the whole fabric would collapse because of suspension. It is estimated that race horses and horse kept for breeding race horses consume from 900 to 1,000 tons of the choicest oats per month. It is in order to cut food supply for human beings that the suspension of racing has been resorted to. Oats will be saved, and at the moment every bushel must be hained and there must
be no waste. The race-horse agitation is one of the most unworthy features of the social life of England at the present time. Scotland is very calm about the stupidity of Government officials in connection with


Escana Shorthorns Sell For \$861.87. Forty Shorthorns selling for $\$ 84,475$, or an average
of $\$ 861.87$, is anvepitome of the dispersion sale held by Mitchell Bros., Burlington, Ont., on June 29. This, a record average for a Canadian Shorthorn sale-ring, expresses the esteem in which the Escana herd has been
held by Shorthorn breeders in Canada and United States, and furthermore it gives voice to the general approval of Right Sort, which, has been the herd bull in service. His get have been persistent winners at the Canadian National during the last three show years, and many of them are now at the head of some of the best herds in the Dominion and across the border. Right Sort himself, at almost six Iowa, at $\$ 3,600$, but only after I. J. Merner, an Ontario breeder, had put up a stiff struggle to obtain him Very seldom is an aged bull, even when proven good, able to draw forth such bids in a public sale. Newton Grand Champion, the young imported bul which was in service, was purchased by Geo. Amos \& Sons, Moffat Ont., for $\$ 1,500$. It is well that he remains in Cana for he gives excellent promise of maturing into a leading sire in this country. Escana Masterpiece and Prige of Escana, two very promising young bulls by
Right Sort, sold for $\$ 1,000$ and $\$ 975$ respectively The females included a considerable percenta cows and heifers with calves at foot and again in calf to the service of either Right Sort or Newton Grand fit just g. As a general uing, they were not in high and heifer calves females, 13 sold for $\$ 1,000$ or over, the top being $\$ 1,750$,
which J. H. McKloskey, of Fish Trap, Wash. paid for LLady Laura 41st, an imported cow by Royal Coant. She had at foot a nice junior heifer calf by Rosebud
King. Novelty, another imported cow, which it the dam of last year's junior champion bull at Toronto and his full brother, Pride of Escana, in the sale went to South Dakota at $\$ 1,600$. Pettit Bros., of Freeman, took Favorite Missie, one of the herd's good producers at $\$ 1,500$. These represent a few of the top pricep for An analysis of the selling sivows that United States buyers took 11 head for which they paid 813,300 . 3. H.
McKloskey of the State of Washington, purchased is McKloskey, of the State of Washington, purchased 6
head for $\$ 5,675$. Ontario breeders bought $2 \theta$ head for head for $\$ 5,675$. Ontario breeders bought 29 head for
which the paid $\$ 21,175$. The firm of Geo. Amos $\&$. taking 6 head was one of the best Canad average for the 40 head was 8861.87 . The 33 gran averaged $\$ 804.54$, and the 7 bulls $\$ 1,132.14$. Where no state or province is mentioned in the list, Ontario is
understood. Nothing
and popularity of the Escana Shorthorn herd comments have been conservative indeed, for the sale list tells the story in full. One of the best bulls in
Canada has been allowed to go, but his good influences Canada has been allowed to go, but his good influences
will still live and be exerted through his sons in service here. The prices received constitute a very bigh compliment to the wisdom and sagacity of Mitchell Bros, as constructive Shorthorn breeders as well as to
the skill. and perseverance of Jos. McCrudden as herdsthe skill and perse
man and manager

Cows and Heifers. Lady Laura 41st (imp.), J. H. McKloskey, Fish
 Dakota.., Jacks.......................... 1,600 Favorike Missie, , evetiti. Bros.....Freeman.
Sybil Girl (imm.), H. J. Miller, Keene Long Lane D.isy H. Hard V, keene............... Lady Jilt, Dheo Howard Vaughn, Marion, Ia Lady Jilt, Theo. Martin, Bellevue, Ia.............
Orange Princess 2nd, Robt. Miller, Stouffille. Greengill Fancs I H Mckloster, Stouffille... 1,100 Maude 55 th (imp.), Goo. Amos \& Sons, Moffat..... 1,175 Escana Beauty 4th, J. Watt \& Son, Elora........... $\quad 850$
Escana Broadhooks, Jas. Fallis, Brampton....... 700 Broadhooks 11th (imp.), Geo: Amos \& Sons, Escana Missie 3rd, F. R. Edwards, Tiffin, Ohio... $\mathbf{1 , 3 2}$
 Newton Rose (imp.), J. H. McKloskey.....
Newton Rose 2nd (imp.), J. H. McKloskey Lady Laura 29th (imp.), H. J. Miller Msie (imp.), Geo. Amos \& Sons, Stamfords Lady , S. T. Coulson, Milton. Killwinning Lady 2nd, Percy DeKay, Elmira Escana Beauty 3rd, I. A. Watt Escana Bessie, J. H. McKloskey Sybil 15th (imp.), Geo. Amos \& Sons. Escana Isabella 2nd, E. Fleck, Georgetown
Escana Isabella, M. E. Harris, Mohawl Escana Isabella, M. E. Harris, Mohaw Pearl Stockings, Thos. Harrop, Milton Isabella Girl, Thos. Harrop.
Red Isabella, Thos . Harrop
Isabella Belle, H. J. Miller.

## Bulls.

Right Sort (imp.), Chas. Parsons, Carol, Iowa.... ${ }^{3,600}$
Newton Grand Champion (imp.), Geo. Amos \&
Sons...............................akville.........
Pride of Escana,
Killwinning Mist, Chas. Monroe, St. Thomas. Killwinning Mist, Chas. Monroe,
Killwinning Royal 2nd, M. E. Harri Kill winning Royal 2nd, M. EMarris
Escana Masterpiece, Robt. Miller...
Greengill Star, E. de Gex, Kerwood.


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The Watt-Gardhouse Shorthorn Sale Made a Big Average.
Salem Stock Farm, Elora, Ont., has been the place of many epoch-making events in the history of Short horn cattle, but the annual sale staged Thursday, June 28, by J. A. Watt and J. M. Gardhouse was the greatest history-making milestone of them all. Nearly
one thousand enthusiastic admirers and breeders of one thousand enthusiastic admirers and breeders of
the Red, White and Roan gathered at the farm for the dispersion of some of the best cattle ever offered in a sale-ring anywhere in this or any other country. Our cousins from the United States were out in force, but Ontario breeders made them go the limit on many of
the good things, and while the greater part of the cattle the good things, and while the greater part of the cattre
will go across the border, Ontario breeders were the runners-up on a number of the best offered. The top price of the sale, $\$ 2,600$, was obtained for the grand white bull Marquis of Lancaster, sired by the great Gainford Marquis and nearing two years of age. He a number of the choice lots. Top price for females, $\$ 2,025$, was paid for Britannia the show heifer with a great record in both Canada and the United States. Mr. Crosbie took her with his other good ones. Gerrie Bros., of Elora, Ont., got a prize in the bull calf, Gainalso took a heifer call by the same sire at $\$ 1,025$. Fred Currie, of Markdale, Ont., took Matchless Belle 4 th at $\$ 1,325$. She is A.pice red, two-year-old by Sir Victor.
M. E. Harris, Molawk? C. M. Blyth, Guelph; James M. E. Harris, Moiawky; C. M. Blyth, Guelph; James
DeKay, Elmira; Jas. C. Elliott, Glencoe; Alex. Watt, DeKay, Elmira; Jas. Cll Elliott, Glencoe; Alex. Watt,
Elora., Ont.; J. J. Elliott, Guelphs W. A. Dryden, Brooklin; Maloolm McCormack, Amaranth; Gordon
Auld, Guelph; Rob't. Miller, Stouffvile, and Thos. Auld, Guelph; Rob't. Miller, Stouffville, and Thos.
Kerr, Thamesford, were among the Ontario buyers as Kerr, Thamesiord, were among the Ontario buyers as
the list following shows. Geo. Amos \& Sons, of Moffat, Jas. Douglas, Caledonia; Rob't. Miller; W. A. Dryden; Alex. Watt and Gordon Auld were among the rumnersup of some of the good things. Thirty-nine head went
to the United States, and twenty-four remained in to the United States, and twenty-lour remained in Canada. The average price for those purchased to go to the States was 8837 , or a totai of $\$ 32,675$, and average of over $\$ 644$ each, so our breeders held up well with the best of the men from the greatest stock-breeding States in the Union. The heaviest purchasers from the other side were J. E. Crosbie, of Tulsa, Oklahoma;
G. H. Prescott, of Tawas City, Mich.; W. C. Fleury, G. H. Prescott, of Tawas City, Mich.; W. C. Fleury, McMaster, Altoona, Ill.; and J.H.McR.Moskey, Fish Trap,
 ing a few ealves, sold separate from their dams, brought
a grand total of $\$ 88,150$-an average of $\$ 764$. Six buwing is a complete list of animals sold.

Females.
Kilblean Beauty 2nd, J. E. Crosbie, Tulsa, Okla $\$ 1,075$ Sittyton Victoria, Mrs. Howard Vaughn, Marion Heifer calf, J. E. Crosbie Royal Lady, Mrs. Howard Vaugh Benachie's Missie, J. J. Elliott, Guelph, On
Missie Dyment, C. M. Blyth Guelph, Escana Beauty 2nd, J. E. Crosbie. Escana Claret, James Brown, Dundee, III.
Zoe, G. H. Prescott, Tawas City, Mich.... Zoe, G. H. Prescott, Tawas City,
Oakkey Park Zoe,
G. H, Presott. Jubilee Jilt, Malcolm McCormick, Amaranth, Ont Spruce Hill Mistletoe 2nd, Theo. Martin, Belleview Iowaininine.ind, Alex. Watt, Elora, Ont.. Britannia,
Matchless
.
E. Crosb Matchhess 39 , Rob't. Failon, Neponset, Ill.,
Matchless 48,' T. W. O'Connor, Monticello, Ind
 $\underset{\text { Emmeline 23, J. E. Crosbie }}{\text { Nora of Pine Grove, C. J. }}$ Nora of Pine Grove, C. J. McMaster. Bora Claret, W. C. Ferr, Thamesford, Ont Princess Royal 27, Anoka Farms, Waukesha, Wis
 Butterfly Belle, J. H. McKloskey, Fish Trap,
 Hellet cank, Gerrie Bros., Elora, Ont....
Edith Cavell, Jas. C. Eiliott, Glencoe, Ont Vanity 2lst, M. ... Harris, Mohawk, Ont.
Rothnick Belle 2nd, J. H. McKloskey Rothnick Belle 2nd, J. H. Mckloskey
Gloster's Sunbeam, G. P. Prescott... Gloster's Sunbeam, G. H. Prescott-...
Patriot's Gwyne 2nd, M. E. Harris. Gen Queen, G. H. Minnie Sailor tht , Jas. Dekay
Princess Royat
Ont
Rth, Rob't. Miller, Stouff ville, Oakley Park Zoe 2nd, Gordon Auld, Guelph, Ont..
Bessy May, A. R. Croxton, Angola, Ind. Ressa Stampord, W. C. Fleury.
Merry Lass 10th, J. J. Elliott Missie May, Dr. McFadden, Fergus, Ont
Lady Mistletoe 2nd, Rob't. Miller, Stouffille The Firs Queen, G. H. Prescott
Hero's Lass 3rd, W. C. Fleurry Clementina 4th, Jas. C. Elliott...
Mina Lass 13th, G. H. Prescott. Violet Belle, J. ${ }^{\text {E. Crosbie..... }}$
Narcissus 7hh, G. H. Prescott.

Sunflower, J. H. McKloskey
tamion W, Davidson, Merry Mildred 3rd, J. E. Crosbie Mak Bluff Melba 4th, Reb't. Frilon Matchless Belle 4th, Fred. Curri

## Bulls.

Marquis of Lancaster, J. E. Crosbie. The Count of Selma, C. J. McMaster
Royal Fyvie (imp.), R. J. Doyle, Owen Sound Gainford Matchless, Gerrie Bros. Mina Lad, G. Harding, Guelph.
Signal Chief (calf), W.C. Fleury.

The Late J. C. Snell. There passed away at Victoria Hospital, London, Ont., Weanesday, june 2 noth, jorrt in the development of Canadian agriculture. The late Mr. Snell was well known to readers of "The Farmer's Advocate" and to ive-stock men throughout Canada and the United States. He was for many years a successful farmer and stock Ont., and was afterwards, from Jan. 1897 to Dec 1915 on the editorial staff of "The Farmer's Advocate. Born on Nov. 28th, 1840 , the son of John Snell, who had come out from Devonshire, England in 1835, an settled in Upper Canada in 1837 , and early took up
the live stock business, the late Mr. Snell got an earl interest in good live stock, and at the age of twelve year attended the first Provincial Fair, and from that date to 1912 he never missed attending a Provinc
Toronto or the Canadian National Exhhibition.


The Late J. C. Snell.
His father became one of the leaders of the live stock Susiness as early as 1854 , and later the three sons, John,
Joseph and Richard took up the work. For a number of years the firm of John Snell and Sons was well known America over, particularly to the Shorthorn world
Shortly after the Shorthorn herd Shortly after the Shorthorn herd was founded, a flock of Leicester sheep was purchased, and later, Cotswolds
were added. In the early sixties the firm founded a were added. In the early sixties the firm founded a
herd of GGalloway cattle, but in 1867 they were dispersed at auction as the demand for the breed became
limited. John Snell died in as carried on by the three sons ntill the early busine when the late J. C. Snell started in for himself. The nells brad arer the best stock Jersey cattle were then in good demand. The Short-
horn herd was dispersed and reeplaced wold sheep and Berkshire swine were made specialities nected with the live stock business, his winnings at the larger exhibitions were always chronicled at the top or near the top of the list. His services as a judde op
catle, sheep and swine, were in frequent demand he officiated at the World's Fair in Chicago 183, and as
well as acting at some of the leading Dominion and
Provincial well as acting at some of the leading Dominion and
Provincial Exhibitions in Canada. Mr. Snell was three times elected for four-year terms, a member of the
Provincial Council of Agriculture and Arte President of the Council in in 1887. He was also President for one term each of the Dominion Shorthorn Breeders
Association, the Dominion Sheep Breeders Association,
and the Dominion Swine Breeders' Association

July 5, 1917

# Toronto, Montreal, Buffalo, and Other Leading Markets 

Week Ending June 28


Dominion Dopartment of Aftculturp, Live
Stock Branch, Markety Intelifence Difilon
CALVES
Good
Calves

| Receipts |  | CALVES Top Price |  |  | Good Calves |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Weele | Same | Week | Wee | Same | Week |
| Ending | Week | Ending | Ending | Week | Ending |
| June 28 | 1916 | June 21 | June 28 | 1916 | June 21 |
| 1,054... | 1,243. | 739.: | \$15.50. | \$12.50 | \$15.50 |
| 1,920... | 1,353 | 1,430. | 13.00 . | 10.00 | ... 13.00 |
| 1,185... | .,191 | 994. | 12.50. | 10.00 | 13.00 |
| 118. | 209. | 179 | 13.00 | 10.00 | 13.00 |


| eek |
| :--- |
| nding |
| ne 21 |
| 15.50 |
| 13.00 |
| 13.00 |
| 13.00 |



Quotations per head.

## Market Comments.

oronto (Union Stock Yard Twenty-seven hundred butcher cattle
were received at the Union Stock Yards over the week end and in addition there were eight or ten loads consigned direct
to the abattoirs. Notwithstanding this liberal supply, trading was active on Monday at the pricesprevailing at the close of the previous week's market, and 25 to 50
cents higher than the prices ruling two weeks ago. Liberal supplies were receive
during the remainder of the week. Price held about steady on Tuesday on good quality steers, but were from 15 to 25 cents. . 0 wer on medium steers and from
25 to 35 cents lower on butcher cows. Stall-fed cattle, nearly all of which hav on the closing market of the week an commanded a premium in price. A few extra fine steers of 1,600 pounds weight
from Hanover, Ontario, brought $\$ 13.00$ per hundred. One straight load of stee
from the barn of J. B. Shields, Mount Abert, Ontario, brought $\$ 12.50$ per hun price for realized $\$ 12.50$ per hundred but the bul $\$ 12.00$ and $\$ 12.25$. Heavy finished steer reached $\$ 12.00$ to $\$ 12.25$ in a few instance with the bulk of the best selling betwee
$\$ 10.75$ and $\$ 11.50$. The greatest. per centage of the bulls offered for sale were of poor quality and while one or tw
reached $\$ 10.50$ per hundred very few sold above $\$ 10.25$, the bulk of the sales being made between $\$ 9.00$ and $\$ 9.75$, with
Bologna bulls bringing from $\$ 7.00$ to
to 88.00. Butcher cows were of inferio $\$ 10.25$, the bulk of the sales being made between $\$ 9.00$ and $\$ 9.75$; this class was the lower levels. Stockers and feeder were not wanted and moved slowly a
slightly reduced prices throughout the veek. Calves were on hand in moderate numbers and sold at from $\$ 13.50$ to $\$ 14.50$ for the bulk of the best veal, with a few o, Sheep and lambs came forward in mor liberal numbers and while sheep held 50 to 75 cents per hundred, followed by similar decline during the remainder of the week, with sales being made on Thurs-
day at from $\$ 14.00$ to $\$ 14.50$. Quite day at from $\$ 14.00$ to $\$ 14.50$. Quite sold at a sacrifice.
Hogs opened strong and advanced 25 cents per hundred on Monday's market selects selling at $\$ 15.50$ per hundred, fed and waterec, Collowed by three simila Thursday respectively and closing o the latter day at $\$ 16.25$ per hundred in firm market.
Of the disposition of live stock from ng June 2lst Canadian packing houses purchased 475 calves, 71 bulls, 128 heave steers, 2,955 butcher cattle, 7,123 hogs, and 463 sheep. Local butchers bough
229 calves, 254 butcher cattle and 85 heep. Shipments back to country points
consisted of 38 stocker calves, 88 milch cows, 126 stockers and 43 feeders. Shipments to United States points were made p of 121 heavy steers and 6 butcher cattle.

op
rice 8....... $812.00 \ldots \ldots . .811 .80-\$ 12.50 \ldots . . .812 .50$
 $\begin{array}{ll}31 \ldots \ldots . .10 .75 \ldots \ldots . & 10.50-11.00 \ldots \ldots . .11 .25 \\ 52 \ldots \ldots . . & 9.75 \ldots \ldots . . \\ 9.50-10.00 \ldots \ldots . & 10.20\end{array}$
 $\begin{array}{rrrr}32 . \ldots . . & 9.75 \ldots \ldots . . & 9.50-10.00 \ldots \ldots . . & 10.20 \\ 189 \ldots \ldots . . & 8.40 \ldots \ldots & 7.75-9.25 \ldots \ldots & 9.25\end{array}$
 7.50

The total receipts at the Union Stock Yards from January 1 st to June 21 st calves, 13,950 sheep and 237,278 hogs ${ }^{23,814}$ compared with 113,355 cattie, ${ }^{2}$,ogs, received
of 1916.

Montreal
There was a good demand for cattle of advanced 50 cents per hundred with a firm tone evident at the close. The quality of pair of choice heavy steers sold at $\$ 12.50$ and one load at $\$ 11.80$ Iew sales were to $\$ 10.20$ and bulls up to $\$ 10.75$ but the and $\$ 9.00$ per hundred. A liberal supply or calves met a steady demand, the previous

Sheep and lambs were slightly easier lambs are being marketed
The demand for hogs was good all week
and opened at $\$ 15.75$ to $\$ 16.25$ per hundred, weighed of cars, in the week prices advanced 25 cents per
hundred and the market closed strong
with prospects of higher prices for the Pt. ST. Charles.-Of the disposition Stock Yards for the week ending June
Ist, Canadian packing houses and local butchers purchased 922 calves, 30 canners and cutters, 42 butcher bulls, 339 butcher
cattle 935 hogs, 105 sheep and 25 lambs. nipments to United States points The total receipts at the Pt. St. Charles dusive were 16.823 catle 35009 st in,025 sheep and 32.578 hess compared with 19,104 cattle, 25,447 calves, 5,019 heep, and 46,262 hogs, received during
the corresponding period of 1916 . East End.-OI the disposition of live or the week ending June 21st, Canadian chased 994 calves, 197 butcher cattle, 456 hogs, and 188 sheep. Canadian poses) were made up of 56 butcher cattle, and 58 hogs. No shipments were made The total receipts at the East End dusive were 16,313 cattle, 42,357 ant in6,263 sheep, and $20,870 \mathrm{hog}$; compared $\begin{array}{ll}\text { with } & 14,885 \\ 8,100 & \text { cattle } \\ \text { sheep, }\end{array}$
during the corresponding period of 1916. Winnipeg
Iffer ouly classes of stock that did not springers and fresh milch coows, both of prices. Traders are not disposed to purin the markets sto the south. On Monday steady prices, but the latter week brought heavy receipts and conse-
quent reduction in price of 10 to 15 cents per hundred. Choice steers sold from
$\$ 10.00$ to $\$ 11.00$ per hundred, and medium steers from 39.00 to $\$ 9.50$. Few choice the sales of these was made around 89.50 per hundred. Cows ranged in price from oxen suffered the heariest recession in ing the week, some really choice oxen calves are still a strong feature on the market. Stockers and feeders show a choice animals selling at 8800 and th, greatest percentage at $\$ 7.50$. The
demand was only fair throughout the

In the neighborhood of two hundred
sheep were received during the week but

THE FARMER'S ADVOCATE


Buffalo.

| Cattle--Prices on shipping steers here |  |
| :---: | :---: |
|  |  |
| $\begin{aligned} & \text { Cotle-Prices on shipping steers here } \\ & \text { lase week were advanced a full tuarter } \\ & \text { over the previous, week and Canadian } \end{aligned}$ |  |
| within the history of the trade in America $\$ 13.30$, this price being paid for tho |  |
|  |  |
| loads of prime, whtle fed steets averaging |  |
|  | and bulls 15 to 20.5 cents lower. (ommmon |
| iffered here he met wick, approxinately cen carr of whih weme on the thiphing |  |
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| teer inter. Bel notive hlipping athle |  |
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| 212.es hery litue in the stur bine |  |
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|  | ce, in taggs, 811 ta $\$ 11.11$. |
|  | Hay and |
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| $\begin{aligned} & \text { in } \\ & \text { and } \\ & \text { and } \end{aligned}$ |  |
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| $\begin{aligned} & 11 \text { in } \\ & \text { ond } \\ & \text { on } \\ & \text { and } \end{aligned}$ |  |
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| an mon, wis. | Hides and Skins. |
| -12 |  |
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Wholesale Fruits and Vegetab
Banamas continue to bring high
selling at 83.25 to 8.25 per bunch. California cantaloupes dectined ma
terially in price, selling at se.50 per cas
Tlle first Canadian gonseberries terially in price, seling at semp per cate.
The first Canadian goseberife for
this season came on the market Tuestay last and were of good quality. There
have also been small shipments chaily have also been smare selling at $\overline{\text { s. }}$ s. to
since then. They are
$\$ 1.25$ per 11 -qt. basket. Canadian cherries al-o amived selling
at 4.5 per 3 -qt. basket.
Lemons. -The lemon market is very Lemons.-The lemon market is sery
firm-new herdillis having advanced to
86 per case, and (alifornias selling at 86 per case, and Californias selling at
85.50 per case.
Onanges also adranced; late Valencianselling at 84.25 to 84.75 per case, Medi-
terranean Sweets at $8+10 \$ 4.50$ per case,

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18
$$

"Strawherries. - Canalian Strawberriescond inued to come in in small quantitics,
and there were some of extra choicequality; they sold at 20 c . to 25 c . per demand and did not vary much in pi
home-groun hot-house selling at 22 C . home-grown hot-house selling at 22 c .
20 c . per H . for No 1 'send 20 c . per 11 . for No. W- while the imported outide
grown sold at 82 to 82.40 per 4 -lasket Watermelons have come in very freely,
selling at 4 (l) , to s.a. each, according to qualit
$\qquad$
$\qquad$
$\qquad$
$\qquad$

 weod quality, while (andedi.m potathe
 at these price, it was not suprising that
consumption was unusually light. Ferple Maple Syrup and Honey.-Dhemand for maple syup was light and prices were
tead. In 13--1b, gallon tins, cutra
chate honce wronght as high as 81.in, while
hoice was around lOc, less, and from this the price ranged down to alout
\$1.30. Alaple sugar was 150. per Ib
ind Honey was steady, at lic. per 11. for
white clover comb; 13 c . for brown ciover omb; 13c. to 14c. for white extrated
and 12e, for hrown extracted. Buck bube and l2c. for hrown extracted. Buckuheat
honey was 10 c , to 11 c . Eiggs.- The warm weather had its
effect on quality and the stock was not Chert on quality and the stock was not
hearly so good as that received carlier
no the year. Selected stock was quoted It 3 .c. to 3sc. per dozen, which was
practically the low point of the season.
it is understood that export not so goodas it was previously and this acounts for some easiness in price. No.
1 candled 34 k . to 35 c , and No. 2 candled

Butter. The make of butter was large vality somewhat weather as a a consed the crailing recently. Were lower than those as quoted recently: Finest creamery
finc was. to 3.5 . 2 e, while

$\qquad$
$\qquad$
per bushel, ex.sord
inker beane were soc.
Mushel; Rangoon heans
$\qquad$
$\qquad$
$\qquad$
$\qquad$s12.00 for strong bakers'. Ontarios
812.50 to s.2.ai) per larral in nood,
Pag.
Hay- The marke for haled hay was

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\begin{aligned}
& \text { \$ } \$ 11 \text { to } \$ 11.50 \text { for } \\
& \$ 10.50 \text { for clover mixed }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Beef hides were up } 12 \mathrm{c} \text {., } \\
& \text { 2c and } 231 / 2 c \text { Calt skins } \\
& \text { Iorse hides } \$ 7 \text { each. Tallow } \\
& \text { It }
\end{aligned}
$$

$$
\begin{aligned}
& \text { c. and } 33 \text {. Ilorse hides } \$ 7 \text { each. Tallow } \\
& \text { to } 6 \mathrm{c} \text {. per } 1 \mathrm{l} \text {. for rough, and } 11 \mathrm{c} \text {. to } \\
& \text { c. for rendered. }
\end{aligned}
$$



A Night With the Stars

|  | very |  |  |
| :---: | :---: | :---: | :---: |
|  |  1. an example of worlo of the Roman! |  |  |
| "wink live orlh, |  |  |  |
|  | Enstisl |  |  |
| -in that of fleep 1 thall |  |  |  |
| ,uits till, | все | Batat |  |
| will inlle |  |  |  |
|  |  |  |  |
| toall ca |  |  |  |
| ild, jaggeed clouks in in | $\begin{aligned} & \text { by tortune-telling and Eastern magic. } \\ & \text { Others went to Persia. About } 1480 \text { they } \\ & \text { first appeared in England. And in all } \end{aligned}$ |  |  |
|  |  |  |  |
|  |  |  |  |
| sine |  |  |  |
| \#, Melore the sun ink ing orts tirough the |  |  |  |
|  |  |  |  |
|  |  |  |  |

Among the Books.
'Romany Life


In eit her case the housereld furnishings In either case the household furnishing
ne few and simple, hut very resourceful. Bunter gra. pichen wherever th

$\qquad$

 Tuck") and quantities of jewelry, which age, having come down through many
generations. Ear-rings, sometimes s!
 naking clothes' pegs or toys, brooms, Upon the whole Mr. Cut triss has fount
 ments, and picking fruit, potato planting, onc has found the key to their sympat hies hay-making and hops in season. With They are very musical, and often sing most of these things the women help. All thing, to they lowe dancing, executing
They also make artificial flowers and lace. they made quite a good deal of mone grace. mample of a pride likely to quite misunderstord al thy gorgios, Mr
Cuttriss tells the followinge Cuttriss tells the following: had intercourse with the gypsies for many years, came to me and explained
that she had ordered a dozen baskets to le made by a sypsy manad $1 \mathrm{H}-\mathrm{H}$ and athough he kinew she urgently
needed thenl for a thazar he had not
supplied eren ome of them. She consupplied eren ome of them. She conwhich would amount to twelve shillings.
I endeavored to explain the affair without giving offence, bui the actual work wats that the lady hat ordered his matn who considered hime elf in to the work. She had undoubtedly given the order with the very best of
intentions,
lut obviously the gypsy's insight had shown him that she con-
sidered him an inferior, and, while giving sidered him an inferior, and, while giving
her credit for some sort of desire to do good, he woult give relief to his wounded pride ly spitting on the ground in her
direction after she had left.
 I lorket up His same Wr HP and
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Travel Notes

A Good Type of Caravan

$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
many people who thought the internes
did nothing except smoke and loaf and amuse themselves. The variety of objects
displayed is something amazing. Everydisplayed is something amazing. Every-
thing from a stick-pin to a bedstead; thing from a stick-pin to a bedstead; rom mere time-killers, such as useless
Berlin-wool nightmares and cross-stitch berlin-wotions, to artistic bits of tapestry. Entrance to the exhibition was free except on the afternoon and e
the Scotch soldiers appeared
the Sortunately we "did" the show in the morning, otherwise we would not have seen very much as, in the afternoon, the
crush was so great it was almost impossible to get anywhere near the display tables. There was a continuous row of these tables all around the immense sky-ighted-
hall. The articles were grouped according to the various ateliers to which they belonged:
左 mostly for firms in France. artists, under the patronage of the Frenc embassy

The Independent Ateliers, financed by private funds. ${ }^{4}$. The Ateliers financed by Swiss 5. English and Belgian Ateliers. We The work of private individuals.
We circuit of the vast hal and came away with entangled brains chairs in these places.
I will jot down a few of the things I remember seeing, just as they come to
my mind: pictures; sculpture in wood my mind: pictures; sculpture in wood
furniture; jewellery; leather work; basket work; rugs; knitting and crochet-work embroidery; wood-carving; etching on metal; book-binding; fish-bait; bead
chains; toys; kitchen utensils; garden im plements; shoes; glassware; pottery; hand carved chairs, wardrobes, tables, etc ladies' hats; sweaters; socks; dolls, etc. display, price-cards were attached to all the articles. Of small objects ther seemed to be an inexhaustible supply. clever at utilizing any materials at hand and transforming them into things of
beauty. For instance nails. From beauty. For instance - nails. From
mere ordinary nails they have fashioned the most beautiful little articles for
desks-such as paper-cutters and letter openers exquisite in form and color artisticaly lettered, nead left to remind one their humble origin. It is like the story of the ugly caterpillar and the beautiful butterfly: Uncle Ned was particularly carried
away with the wood-carving. a weakness for this kind of art. It was all I could do to keep him from buying some old carved bedsteads in Geneva last
year.) This wood-carving is the work year.) This wood-carving is the work of
some French soldiers interned in a part of Switzerland where wood-carving is a
specialty of the natives. The French specialty of the natives , The French
soldiers have copied the old Siniss moodels thairs, chests for clothes, wardrobes, ouch which adds much to their beauty The Enghish display is not gaudy (ex-
 artistic. Their specialty it is book- -lind
ing-nothing elaborate of gitte-ctged, but


 Concosed talate in the centre of the hall
 tage in order to see better. 1 way
wegged in so tight 1 couldn't move hand
 ivtion. There we stood orn rn hout pase hait, propped op by our neifh hors The dancing crated datic a furvere-






 British Schoul of Motor Mechanism. Sritish prisoners of war
terned in Sintrefland

Underneath this is added $a$ very unare not wanted
So, being warned off the premises, all I know is what I see from the outside.
I know that thirty or forty Tommies in I know that thirty or forty Tommies in
khaki go in and come out at regular intervals, and that a gray automobile is forever whirling up to the door depositing Tommies and taking away other Tommies, is given to the most extraordinary capers acting like a thing possessed of the-wel
 Major Gen. John J. Pershing.
Now in France, commanding the first_America along serenely like an old gray house prance and reel from side to snort and then with a final snort come to a dead stop. After which, all the Tommies
would get out and crawl under it, and over it, and examine its interior, and poke their fingers in here and there, and ex reason together over its behavior. Then in they would get, and off they would go, The explanation is, I believe that they are studying automobilism - if there is such a word. The Tommies come to evey in groups of thirty or so to take
the course at the school here. If you were a Tommie, and you had
been in the war, and been wounded, and captured, and dumped into a German
prison, and been ill for months so ill you had been sent-to Switzerland; and if, after you had regained your health, you
were languishing for something to do, and were languishing for something to do, and
rad a chance to go to Vevey and stuly motor mechanism; and if you did not understand a word of French, and if you were not bashful-how long do you
think it would take you to converse fluently with a French-Swiss girl who Well, I have been told by a person have developed such remarkable linguistic lifficult feat in an astonishing That, in fact, three days after arriving the benches carrying on absorbing conversations with native belles. In some Cases there was a khaki arm along the
back of the bench just about where shoulders came. It is a chilly and one gets a good deal of wind on the anything to look at but fog. But the lways couples holding hands and at if the place where the scenery would be But if one of the two on the bench does not understand French and the other
does not understand English - what lan guage do they talk?
That is what I have been wondering. For they certainly talk.

There are not many guests in this hotel
 Mactunted. They are of all nationalities a spy by somebody else. Even we have
been hranded as "dangerous." There
is the usual mixture of Russians and
Toles and (Greckse There is, an sneeks and "doubrfuls." was Russian, and an Italian lady whose
mother was Irish. There is a Russian
lady whose first and whose present husband is a Bulgarian, anc whose present husband is a Bulgarian.
She has a Russian son in the Russian
army, and a small Bulvarian

No wonder. Then there is a dubious
Serb with Gerb with cruel eyes, suspected of being
Germanophile, and another Serb who has fought for his country in the war. And
there are South Americans, and Central Americans and North Americans. and there is the mild-voiced pleasant-mannered old German gentleman known among us as The Trombone. No one
would ever imagine to look at him that he was capable of creating such tonal disturbances, but with that natural trumpet
of his, which is situated betwen his eyes of his, which is situated between his eyes
and his mouth, he can produce an endless and his mouth, he can produce an endless
variety of tones-war-like blasts that variety of tones-war-1ike blasts that
startle, and long, low, wailing, dirge-like sounds that almost make one weep. He blows fortissimo, he blows pianissimo
he blows staccato, and legato; he blows he blows staccato, and legato; he blows
coldly and contemplatively, and peevishly and passionately; he blows allegretto in a gay, rythmic sort of way, and he blows
adagio in mournful tones suggestive of Hopeless Despair.
And he never seems to know he is playing his trombone, he seems quite of the sensation he causes in the dining oom, for his performances always occur in the dining-room between courses. He theories have been advanced to account for his remarkable trombone exploits.
One is that he is lonesome; another, that One is that he is lonesome; another, that
he wants every person to know he is


New Sign on Lake Promenade. does it, and he himself doesn't know he
does it. Although he was born in Ger-
many he eft.t hat country when he was a
year old- that was about 75 years ago year old-that was about 75 years ago-
and his sympathies are quite with the
Allies. He is really a very nice old gentleman, a spy of course (according to some peo-
ple) like all the rest of us. He was
warned ararned against $u s$, and we were warned
against $h i m$, and the result is we are ex

## Hope's Quiet Hour

Why Not
things which are commanded all those We are unprofitable servants; you, have
done that which was our duty To-day's text is our Lord's commentary
 from his work in the fields his master
does not thank him, or wait on him at supper; but expects, or wait on him at
wait on him flave to
first. Then he is allowed to take his own meal, when the day's
work is fully done. The Cated work is fully done. The Carpenter of
Nazareth did not fiercely denounce the
might do-but used it as an illustration
of our duty to God. Speaking to His
disciples-who were neither slaves nor disciples-who were neither slaves nor
rich slave-holders-He told them that, rich slave-holders-He told them that,
if they should succeed in their ambition to fulfil their Divine Master's Will perfectly, there could be no room for proud boasting. Though a man should keep the whole law, without failing in
thought or word or deed, he could only hought or word or deed, he could only
offer his finished work to God and say
humbly: "I have done my humbly: "I have done my duty".
We look back in shame We look back in shame and regret,
at our past life. It is stained with many at our past life. It is stained with many
sins, it is broken and full of holes where duties have been neglected. Eyen our best actions and our most inspiring
words may not be as fair and words may not he as fair and pure as
they appear on the surface. God cannot be deceived by outside appearance. He looks at the motive which inspired
the word or the deed; and too ofte the word or the deed; and too often He
sees very little love (except self-love) sees very little love (except self-love)
in the heart. But we feel that if we could only do something really great and noble we might deserve our Master's approbation, and have a right to claim a
future reward. How often people say: "I am afraid I I am we hear enough to go to heaven"-as if anyone were good enought There is a distinction between "wages" and a "gift", and St. Paul is careful
to mark that distinction when he says: "The wages of $\sin$ is death; but the free gift of God is eternal life in Christ Jesus
our Lord."-Rom. $6: 23$, It is not in any man's power to earn
eternal life. His business is to do his eternal life. His business is to do his
duty, faithfully and loyally; never imaginduty, faithfully and loyally; never imagin-
ing that by his good works he can buy ing that by his good works he can buy
that priceless gift which God's love delights to bestow, the gift which is "without price" and cannot be bought. Now you are probably wondering why hat question, "Why Not It is said when Nelson's famous message
was sent to the British fleet: "England was sent to the British fleet: "England the men showed no sign of being im. pressed. "Duty!"' they grumbled. "We've always done it. Why not?"
I don't know whether that story is I don't know whether that story is
true in fact, but it is splendidly true in spirit. Those brave boys at the Front don't need to be told that Canada expects them to do their duty. What did they go to Europe for; if it was not to do their
duty? I think we sometimes get a little
irritated when English people grow irritated when English people grow
enthusiastic over the part ${ }^{\text {Canada has }}$ played in this war. If Canada had held back, when the Empire's very life was
threatened, we should have had good threatened, we should have had good
reason to be ashamed of our country. But why should Canada be praised and patted on the back because she simply


## doing it, without expecting the world

 When a man has done a deed of splendid Wrage a me does hos done expect, of nor wand would my duty-why not? have only would have done it! he declares. And hemeans what he says, if

There are people who "play to the gallery"to use a slang term-and of course
they are very disappointed if the world they are very disappointed in the warts.
fails to notice and applaud their acts. Our business in for ourselves, it not to win glory and admiration; but puts into our hands. He will not withhold His pleased "Well done!" from any faithful servant; and those who love Him would think the praises of men a poor substitute for t
mendation of their Leader.
Duty, rather than the hope of glory,
should be our guiding star. Look at those calmly as if they were on parade while the troopship Ballarat was sinking rapidly
beneath their feet. Death seemed to be beneath their feet. Death seemed to be
very near, yet there was no sign of very near, yet there was no sign of
confusion or of fear. The colonel, on the coridge, called out to the men: "We're all
right, boys; keep steady!" Back came the right, boys; keep steady!" Back came the
rigser: "It's all right, sir; we're all right."
answion answer: "It's all right, sir; we're all right.
Those 1,400 young men did not want Those 1,400 young men did not want
to die; but, if facing death was their duty just then, they would meet it
like men and not like cowards. Why not? like men and not like cowards. Why not? A special despatch to the Times declared
that the story of that day was "one of the most stirring tales of fortitude which has ever been told, even of Australians.
The men had been drilled so thoroughty The men had been driled so thoroughly that when a torpedo struck the ship
every man was in his place in less than five minutes. They were calm and cheer-
ful-ready for the call of duty-the call ful-ready for the call of duty-the call
to live or to die. forward to face almost certain death in many of the battles of this awful war. The noblest among them would
say, if you tried to praise them: "We say, if you tried to praise them:
only did our duty. Why not?",
It is not the duty of everyone to do
some startling deed of valoury but everysome startling deed of valour; but every-
one is called to do his duty faithfully. one is called to do his duty faithhuly
That is the only really successful life the
life of duty-and it is within the reach life of duty-and it is within the reach
of each of us. Are we, with patience, of each of us. Are we, with patience,
running the race set before us? If we are not-why not? It matters very little
whether the world admires us or not but it matters tremendously whether
we are doing our Master's work, or is a temporary matter; but failure is a temporary matter, Dut thiture in
duty is a real disaster. In the battle
of life we cannot be defeated unless of life we cannot be defeated unless
we give up the fight.
When Gien. Foch was driven back and back - in September, 1914-he seemed to be defeated. But was he? Listen
to his report:" My left is shaken; my centre is retreating; my right is broken;
I shall attack!', and he did. Then the enemy was forced to retreat.
Perhaps you are feeling discouraged You have failed again and again, it may loe, and have lost all hope of victory:
Then think of that French general calmly saying that the army is shaken
retreating, broken, therefore "I shal attack." Where can you gain courage to renew the fight? Look at that same
Gen. Foch, as Mary Roberts Rinehart saw him. She writes: "Going up a
steed street to where at the top stood a stone church. . I opened the
cather-covered door and went quietly iin. There was no service. the the
Commander of the Armies of the North. never was kneeling there alone. He If we trust to ourselves we are bound
to fail-for our temptations are fierce and cannot be evaded-but the Source of Strength is our Father as well as our
Master, our Brother and Friend as well as our King. "He giveth power to the
faint; and to them that have no might faint; and to them that have no might
He increaseth strength He increaseth strength. © they that
wait upon the Lord shall renew their Wait upon the Lord shall renew
strength."
Are you waiting upon the Lord? Why
Are hot? - the way is open. The psalmist de lares that the man whose strength is
in the Lord of hosts shall "go from trength to strength.'
He leans on invisible angels,
And Faith is his prop and his rod The sky is his crystal cathedral,
And dawn is his altar to God." And dawn is his altar to God."
Dora Farncomb

Gifts For The Needy.
Another donation of $\$ 2.00$ (from
Mrs. H.) arrived this week and soon


Junior Beavers' Letter Box Dear Puck and Beavers.-This is my
first letter to your charming Circle. live on a very large farm. For pets I have four kittens and a little dog. The
dog sometimes picks a fight, but the dog sometimes picks a fight, but the
kittens always end it. My teacher's
name is Miss Vivian. ting kind of long. Hoping to be a Beaver if Puck's w.-... b. is not hungry. I hope Mitchell, R. R. No. 3 .

Dear Puck and Beavers.-This is my first letter to your Circle. I live on a farm and go to school every day. My teach
er's name is Miss Coveny. I have just passed into the fourth class. For pets I have an angora goat called Nora; sese
has two little pure white kids which we has two little pure white kids which we
think are very pretty. Pa says Nora is a genuine rogue, she can crawl through fences, and to-day she got on the wheat. I have two rabbits called Mollie and
Peter. My age is 12 years.
Nicholas Pollard.

Dear Puck and Beavers.-This is my has started to take the Advocate again, has started to take the Advocate again
he couldn't do without it. For pets have a cat and a yearling calf. I I bought
a setting of eggs last fall, and now I am a setting of eggs last fall, and now I am
going to sell some of them. I have a pet hen, it comes up to them. Ind I have a pet and
hen and
feed it. We had a school fair at Unionfeed it. We had a school fair at Union-
ville last fall. I like reading but not ing my letter will be in print, hop
R. R. No. 2, Gormley, Ont. French

The First Woman Attached to The Mille. Jeanne Tardy, the new attache to the Frencl Cabinet meets Mlle Thardy is ala ays
present ot handle the detais of finan-
cial work.-Underwood \& Underwood.

## The Windrow

In Connecticut and other parts of the
United States the women are raising United States the women are raising
Belgian hares to help to add to the meat supply
Arthur Henderson of the British War Council has estimated that $7,000,000$
men have been killed so far in the war

The United States Congress has appropriated $\$ 750,000,000$ to build cargo-
ships for carrying supplies to the Allies. All of the United States airplanes at the front will be marked on the side
by the head of an Indian warrior in full Philippe Hebert, C. M. G., R. C. A., the noted Canadian scuptor thed age of 68 . Mr. George R. Sims is aghast when he
thinks of the way in which the English people have corrupted or contra turned the stately "O, Dio mio!", into "Oh, dear me!", "God be with you"
into "Good-bye," the surname of Seveninto "Good-bye," the surname of Sevenscene damson Geneva into gin Couvre Feu into Curfew, Windel's Shore

## TheBeaverCircle

Hay Days.
There are such jolly games to play Vacation mornings in the hay,
We're pirates first in hayfield caves, A-hiding underneath the waves More often we pretend to be
Out swimming in a stormy se And where the hay is raked up high We raise our heads to let it pass, Almost forgetting that 'tis grass, How very, very funny, though,


Little Miss Jacobson.
This little girl with her parents was captured and
held for 8 days in a German submarine which




Dear Puck and Beavers.-This is my
Drst letter to your Circle. My brother first letter to your Circle. My brother the letters. I have read a few books, some are "Jack the Giant Killer, Nelson's Graded Stories," and others. live on a farm of one hundred and twenty-
five acres. I have two brothers, their names are Sandie and Clarence. For pets I have two calves, their names are Jim and Black Beauty, and a dog named Why is a Chinaman the greate
his head and tail are on the same end Campbelton P. O., Ont.

Dear Puck and Beavers.--This is m first letter to your charming Circle. My cate" this year. I have a half a mile to cate" this year. I have a half a mile to North Easthope. My teacher's name is Miss Grace Master. I I like her fine. I have three brothers. We have one
hundred and fifty acres of land. We are thinking of cementing our stable this summer. We are milking six cows. As my etter is getting long I will close with a
few riddles. What time is it when the clock strikes hirteen? Ans.-Time to get it fixed. When it is a shamrock R. R. 3, New Hamburg, Ont

Dear Puck and Beavers.-This is my cond letter to your Circle, and I hope France doing his bit. I I go to school every day, and have a mile and quarter
to ogo. For pets I have a calf called Betsy and a cat called Topsy, a sheep named
Dimple, and a dog called Bounce. I would like some girl my own age (10) to write to me. I guess I will close as my letter is getting long. $\begin{aligned} & \text { Your friend. } \\ & \text { Elsie Barton }\end{aligned}$ Widdifield Sta., Ont.

Dear Puck and Beavers.-This is my first letter to your charming Circle. For Hets I have a Collie dog. He is not cross. He is all black with a white spot on his
heck. I also have some kittens. We neck. to also have some kittens. We
used to have a Collie dog, and he was
shot a year ago last fall. So we got anshot a year ago last fall. So we got an-
other one. When we hold a piece of bread other one. When we hold a piece of bread I am ten years of age. I am in the junior second class at school. We have head and foot in our class. I (am generally head, scholars in my class at school. I have
three sisters and two brothers. We three sisters and two brothers. We have a mile and a half to go to school. I go to name is Mr. Lucas. Well, as my letter is getting long I will close with some
riddles. Wishing the Beavers every suc-
What three words did Adam use when he introduced himself to Eve which read
backwards and forwards the same? backwards and forwards the same?
Ans.-Madam I'm Adam. Who was the fastest runner in the
world? Ans.-Adam, because he was first in the Ans.-Adam,
What did Adam first set in the garden of Eden? Ans.-His foot.
When is a wall like a fish? Ans.-When it is scaled.
What is the
Cakes? Ans.-Fri-day. for making panThere is something odd about the way
horse eats. What is it? Ans.-He eats horse eats. What is it? Ans.-He eats best when he hasn't a bit in his mouth.
Watford, Ont. MagGie Maclean.

The Ingle Nook.




Hot-Weather Notes.
During hot weather omit from the
all fatty foods, as far as possible. Fat meat, suet puddings, oatmeal, buckwheat and cornmeal are all heating; so also is ice-cream, so it is a mistake to,
take it to cool off on a hot day. It cools for a few moments, but, on account of the fat in the cream, heats later on. Waterice and sherbet are much better cooling
agents, and if well made are quite as agents, and if Well made are quite as
palatable. Drink a great deal of cold water, or cooling fruit-drinks in hot weather, and if ice is used do not put it
in the drink as it may not be pure. Cool the liquid previous to using by putting the pitcher containing it in a pan and packing the chopped ice about it.
they contract the skin and make one they contract the skin and make one
warmer afterwards. Take warm baths, but do not stay in the water too long or
the effect may be weakening the effect may be weakening. The
temperature should be equal to that of
the body. A bath such as this taken every night before going to bed will be
found very refreshing and beneficial to found very refreshing and beneficial to scrub the body well with effects are need Lastly, if farm folk could take three hours' sleep during the hottest part of the day, making up the time lost in longer mornings and evenings, the result,

## A Change for Breakfast.

Cold boiled rice, with or without currants or raisins, and served with cream and sugar, makes a delightful change
from the cereals on warm summer mornfrom the cereals on warm summer morn
Economical Hints.
Don't waste a scrap of anything. Use
up every spoonful of left-over food some how. Bones if put in cold water the boiled slowly make delicious soup. Every atom of old bread may be made into pud
ding, bread-sauce or pancakes; left-ove porridge may be added to muffins or pan cakes, or boiled over again in porridge; from skim-milk may be made cottage cheese, which is at once nourishing and
delicious. So the long lists go. And delicious. So the long lists go. And
don't forget that a fireless cooker is a great saving on fuel.
Fruit that is to be cooked should be Fruit that is to be cooked should be
just ripe, or slightly under-ripe, especially
that used for jelly or jam, as the jellying that used for jelly or jam, as the jellying ripe. People who suffer from eating raw ruit should leave it altogether alone or most people, however, it is very beneficial, as it contains mineral substances useful the body. Eggs.
Eggs that are to be kept any length of ime should never be washed, as that dissolves a protective, gelatinous coating
that covers the outside of the egg. It is stated that thousands of dozens of eggs spoil every year in cold storage because
those who sold them took pains to wash them first.

Therapeutic Value of Fruits and Vegetables.
it, "Look to your health; and if you have it, praise God and value it next to a good
conscience: for health is the second conscience: for health is the second
blessing that mortals are capable of-a blessing that mortals are capable of -. a
blessing that money cannot buy."Isaac Walton. money cannot
In the wonderful plan of In the wonderful plan of Nature,
fruits and
vegetables beneficent offices for humankind, stimu lating appetite by pleasing both ey the same time cleansing it from clogging acciumulations, providing vitamines, now
acknowledged to acknowledged to be indispensable in maintaining health, and, of not less
importance, offering iron and other mineral salts in a form to be most readily assimilated.
Mineral matters form from five to
six per cent. of the body by weight, and six per cent. of the body by weight, and
while belonging chiefly to bones and teeth are present in the other tissues,
and in solution in the various fluids. And so the proper proportion of mineral
salts in the diet is of paramount import-
ance The healthfulness of fruits and vegemables has been so demonstrated that
many of them are believed to have true medicinal properties; and while by un-
compromising disciples of materia medica compromising disciples of materia medica
these claims may not alway be recog nese claims may not alway be recog,
nerious discase none of us, in case of serious disease, would care to trust
entirely to a fruit or vegetable treat. ment, it is still interesting to run through
the list and consider what virtues thev the list and consid
are credited with
Lemons are cooling to the blood Lemons are cooling. to the blood,
antiseptic and cleansing. The juice of
half a lemon in a glass of cold water. without sugar, taken half an hour before breaklast, can hardly be improved upon To break upa a cold, a pint of hot lemonade drunk just beore retiring is one of juice is one of nature's beautifiers, too, with buttermilk it will, in many. Mixed banish freckles. Lemon juice will allay of insects, while a dash of it in stings or insects, while a dash of it in water
makes an excellent
venting the formation of tartar on the Oeeth and sweetening the breath. rich in caloric powder. While made up mostly of sugar and water, they contain salt of high nutritive value, while the A glass of most easily digested cellulose. with benefit orange juice can be taken ach, and is especially recommended for biliousness.
The grapefruit, or pomelo, is comsomewhat similar to quinine, but this may be largely due to the slight bitter however, and where, surely they ough, to know, you will find not a few to tell you that for spring fever, or "that tired feeling," you can take nothing better than a decoction of the pomelo. They run the fruit skin, seeds and pulp
through a food grinder, covering it then with boiling water. Leaving it unti it has grown cold, it is strained and the liquid taken in tumblerful doses three of it, and the heroic proportions of such dosage, there are those who might de clare the cure to be worse than the disease, but many there are to give
testimony to its efficacy Grapes, except in acidity, are generally beneficial hyperup the system, and cleansing in effect The value of grapes medicinally would seem to have strong endorsement in to be found in California and Cures places where the fruit abounds. These sanitoriums, usually temporary camps established in the neighborhood of the exclusive diet of grapes, and on an are reported from the treatment cures The old couplet has it:

## An apple a day

and apples, holding in solution iron, rank among the most health constituents They are effective in correcting fruits. constipation, and are credited with being an ideal nerve food.
Peaches are rich in iron, and it is said
that anæmic people would do well that anæmic people would do well to eat
of them freely. The pineapple, because of its natural ferment, is considered especially good
for the digestion. It may be noted that in the booklets put out by many facturers of gelatine, patrons are commonly warned to scald fresh pineapple
before using it with the before using it with their products, as
otherwise the acid ferment of otherwise the acid ferment of the fruit
will digest the gelatine so the will digest the gelatine so that it will not
harden. Che:ries of the cultivated kind, like
all acid fruits, stimulate the gastric juices and are laxative in effect, but curative powers. The wild cherry. however, in country districts where it abounds, is held in high esteem for its
tonic properties, old-fashioned wives making it into a cordial, known as "cherry bounce", held to be wonderfully effective in cases of general debility. Plums have a laxative effect when resh from the tree, but from the therapeutic viewpoint are really at their
best when they have attained the prune degree. And the canny boarding-house keeper who buys prunes for their cheap ness is really offering her guests one of health. It is a food could eat for general gently cleansing to the system, while it is said to be particularly good for the nerves. Eaten dry, without any cooking, prunes, like dates, are a pleasant Figs have a high nutritive value, While their seeds so encourage peristal and dried, is commonly regarded as one of nature's best laxatives.
Where cranberries grow they are held for erysipelas. To get their best tonic value they shoud be eaten raw, either as a salad, or the berries should be crushed
and the juice extracted. and the juice extracted.
Blackberries, made into a cordial,
have long been accepted as one of the most effective remedies for allaying inflammation of the bowels and curing diarrnœea.
Perhaps
Perhaps the most valuable of all
fruits, both as to food and theron value, is the olive. The ripe pickled olive is not only an agreeable relish, but a real repair food; its oil is much more readily assimilated than in the extracted orm. No other fat, either animal or
vegetable, is so easily digested as vegetabie, is so easily digested as pure prescribed for run-down and anæmic people. At the same time it is one of
the most effective of the mild laxatives. the most effective of the mild laxatives. Taken in tablespoonful doses before
meals, it aids digestion and builds up the system. In cases where the taste is objectionable, a little orange or lemon juice taken with it renders it wholly palatable Among the colored people of the South melons are a cure for yellow fever and also for epilepsy. Whether or no a person suffering from either of those mild medicine, it must pin faith to such mild medicine, it must be said that both fectly ripened, are most healthful, pering the blood and cleansing the system Practitioners of vegetarian system. of healing have great faith in tomatoes
as medicine for biliousness and all forms
of liver trouble percentage of vegetable calomel the fruit is credited with. In their lists it is commonly advised that the tomatoes be eaten raw, to get their best
therapeutic effects. Potatoes elements of the body of the inorganic while their potassium salts are food for nerve and muscle. Doctors advise rher matic patients to make a point of eating miss none of the potassium potatoes, to miss none of the potassium salts, which,
being alkaline, serve in a counteract uric acid conditions. eat generously of potatoes is also said
to have a beneficial effect upon the to have a beneficial effect upon the growth of the hair; and, though why
this should be so may not apperr gether clear, the beautiful hair so altomon among Irish girls may, perhaps be taken as confirmation of the theory Beets are recommended for making new blood and also as a nerve tonic,
while the ancient Greeks held the while the ancient Greeks held them to Cauliflower contains the highest centage of phosphorus of any of the eegetables, and so might be considered especially good for growing children Rhubarb, or pie cooked, is a good laxative, while its agreeable acid serves as a pleasant stimulant to the jaded appetite in spring
time. time.
Lettuc
for nervousness and a sure remedy celery, either raw or cooked, is held to Asparagus is for both those ailments. Asparagus is believed to be good for extolled it for while Charles Lamb even erties, declaring that it "inspired gentle thoughts."
Cucumbers are rich in phosphorus figure largely in the and to let them a beautifying effect upon the said to have But carrots rank even higher with the beauty specialists. No fruit or vegetable is held to be so potent as the carrot for clearing a muddy complexion, particu-
larly when eaten raw
The watercress, as a salad green, deserves to be more popular than it is. Containing a considerable percentage of sulphur, it tends to purify the blood; the sulphur in this vegetable form is much more readliy assimilated by the human the mineral.
Dandelion greens, carrying a high percentage of iron, may serve as a springmost of the expensive real value than in bottles, while the tender young leaves, served as a salad,are even more healthful.
e the first lot of a of 200


For one "all run down", no vegetable may be more highly recommended than
spinach. Not only does it stand at the head in respect to percentage of iron, both bowels and kidneys. In proverbs spinach is referred to as "the broom of the stomach", and certainly nothing
that grows is held to be more effective in sweeping the system of clogening accu mulations that make for auto-intoxication and its long train of ills.
The onion, too often thrown into the
discard of vulgar viands by the ultra discard of vulgar viands by the ultra
fine, holds a high place in therapeutic value, acting as a stimulant upon the digestive juices, exerting a laxative effect upon the bowels, and serving in a general
way to cleanse and way to cleanse and purify the whole
system. In olden times, when the good system. In olden times, when the good
housewife doctored the everyday
ills of her household as a matter of course, she always turned to the onion barrel as a first aid in most of the family ills. these claims are hardly to be classed as proven truths: but it cannot be ced as tioned that a well-chosen diet, ques especially one with plenty of the newly recognized vitamines, is the doctor's best
ally, both in the prevention ally, both in the prevention and cure of
disease. It is now believed that lagra, the scourge of Italy, is a result of eating polenta made from musty meal; the dread beri-beri is caused by a diet of rice which has been robbed of its
vitamines through the process of vitamines through the process of polish-
ing; and scurvy is a common result of living upon salted meats without the saving matters which might be contri-
buted by fruits and vegetables. We all know that to eat of certain things affects us in ways which other viands do us, others we learn to leave alone; and ever and always health is with us in the measure of what we may, or may not,
put into our stomachs put into our stomachs. And while it
may be that fruits and vegetables, for the most part, work to heal disease in the way Mrs. Muldoon advised for getting out of trouble-to "put a stop
to it before it happens"-their mission is preventive more than curative, yet their health-contributing function in the diet, nor need it altogether destroy the
faith to which faith to which many of us hold, that in not a few cases they have real curative
value. They should hold place in natural, wholesome dietaries, the
world over.-American Cookery

## Oh Canada.

Oh Canada! beloved country thou,
Hopes's holy wreath adorning thy young Thine arm the sword hath taken To guard the faith of Christ,
Thy fealty unshaken
Oh Lord of Hosts! on Thee we call Oh Lord of Hosts! on Thee we call, wll.
Protect our inland fields, our seaward wall.

Our annals glow with deeds of mighty men
Who conquered fate undauntedone toten Who conquered fate undaunted one to ten They kept our flag outf
When all save hag outhung
On glorious fields unsung
Their valoroust deeds, and like them
In this great West where Destiny awaits, Two mighty oceans front her seaward
May loyalty and honor.
Her skies that shine upon he
Know all her myriads' kin.
0 Lord of Hosts! from these our coasts
tive out all sordid greeds, all foolish
boasts.
lay love revered of altar and of throne Join these our hearts for truth to stand
)ur laws from their pure fountains Tiil round our lakes and mountains Fades out the world's old wrong.
Oh Lood of Hosts to The we cling Oh L.ord of Hosts! to Thee we cling
And shout our battle song, for and the Kingl"' Willfrid Campbell.
William
Brazil has officially announced that she an no longer be considered neutral in the war between Germany and the entente
Allies, thus definitely placing herself on the side of the latter, though no an-
nouncement to that effect has yet been made.

The Dollar Chain 29th: M. McCully, St. Mary's (from S S. No. 9, Downie, Perth, Ont.) $\$ 4.50$ For Byron Military Hospital for
Tubercular Soldiers: Mary's (from S. S. No. 9, Downie, Perth Ont.), \$4.50; B. Geddes, 1. 1, Port Elgin,
$\$ 1 ;$ R. Prior, R. 2, Southwold Station \$1:
 boro, $\$ 1$ : "A Friend," Sheppardton, 75 cents; "A Reader of the Advocate,", St Johns, N. B., 25 cents; "A Friend of the Cause," Southwold Stn., R. 2, \$2. A contribution of $\$ 1$ from Mrs. Thos. H .
Wright, Byron, was incorrectly credited Wright, Byron, was incorrectly credited
to another subscriber, but the amount has been credited.
last week with Watlord, was credited should have been $\$ 2$ matrion of $\$ 1$, this Byron Hospital to date $\$ 500.35$. Amount previously acknow
edged

84,726.90
Total to June 29
$\$ 4,748.90$

Kindly address all contributions to York, as head of the Irish Mission to the The Farmer's Advocate and Home
Magazine," London, Ontario.

## Current Events.

Great Britain's daily average expense upwards of $\$ 33,075,000$.
As part of a Red Cross campaign, Miss rom Buffalo to Washington in two days
rom and he second day's flight, from Albany to Washington, 373 miles, being her longest ight in five years of Aying. In the
presence of an immense crowd assembled
o see her arrival, she was presented with
a cheque for $\$ 50,000$ for the Red Cross
Fund, by the Chairman of the Red Cross Campaign in Washington.
According to report, King Alexander of o form a new cabinet.
T. P. O'Connor, the noted Irish states-

Important Dealor Sorvice When you buy an engine from representative of themanufacturers He ehares their responsibility. He He's responsible to you. He's at your service to see that you are satisfied. And he's as near you
as your telephone any time you
want him.

York, as head of the Irish Mission to the ited States.
A new type of boat, claimed to be unsinkable, has been designed by an Italian nava engineer, and adopted by the
Italian Ministry of Marine for a cargo Italian
boat.

It is understood that Great Britain and heasures to sto all unite in talding Germany through neutral countries.

The amount asked for in the recent M. C. A. campaign for military work, 50ut $\$ 250,000$, the total subscribed by
amount being $\$ 1,002,000$. This generous response to the appeal will enable the National Council of the Y. M. (. A. to greatly extend their work both at home and abroad
in England and France.
News comes through Stockholm that the shortage of leather in Germnay is so
great that only 10 per cent. of the soes cat my per cent. of the nation's shoes can be manufactured from this ma

## THE FARMER'S ADVOCATE

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lasts.
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mole 60 lbs. milk a day. Full sisters of these cows, bred by me, won silver cup and al
other prizes at Public Test, Peterboro Exhibition, September, 1916.' One of the greatest families to produce females. Spy
of Oakdale and her daughter produced of Oakdale and her daughter produced
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Nine full sisters on test for the last year averaged over 5 per cent. butter-fat yea For prices of cows and fuller particular
T. J. HETHERINGTON,

Peterborough, Ont.

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wooden shoes. The shortage of rubber
for military purposes is necessitating the for military purposes is necessitating the the rubber cus
ing confiscated

The second contingent of American troops has arrived in France, having
safely passed through the danger zone, saiely passed through the danger zone,
and escaped the German submarines. They were guarded on the way by their own convoys, and c
plies and equipment.

## "A Century of Dress.

 (A paper given at a meeting of theCampbelfiord branch of the Women's Institute by Mrs. Howard A. Clark.) for some time, that my name had been put down on your leaflets for an article
on this subject, "A Century of Dress". on this subject, "A Century of Dress".
I am not a member of your admirable Society, but Il enjoy the meetings very much and will try to assist what little I
can. 1 suppose some people would be in-
terested in all the different styles of make-ups, colors, etc., of the attire of
the past century; but with this I cannot
deal had as am not a centenarian and haven't subject. Suffice it to say that the styles have been numerous: ranging from the
big kilted, frilled, hooped hip-looped big kilted, frilled, hooped hip-looped
skirts down to the hobble and even the "harem", which was as near the the war came, and now we find them in regalia such as many have seemingly
been longing to don for some time, that is the real 'overalls'. Of course, in these imes it seems necessary, but at any had from the great high collarse whose points punched our ears down to the
ow necked dresses which have often ow necked dresses which have often imes the men are not to blame for what ve call vulgar remarks. In hats we've lad from the "Merry Widow" down to the little toque, and from the great high
feathers and ribbons which no one dare venture near, down to the painted trimmings. The colors have ranged from
the brightest crimson down to the dullest greys. In footwear we've had from the
heeless shoes and pumps which barely叐 ieless on on the toes up to the great long leps and high French heels of the present
day. And right here I would like then quote a little from an "Empire Ad-
vertisement", which I've seen in several
papers papers. The ad. goes on to tell how for and the Empire builders have been trying to overcome this difficulty by
producing rubber somewhere in the Emoducing rubber somewhere in the
Empire They have succeeded in so far or three-quarters of the world's supply
of rubber. This makes rubber chealer than before the war started, as then
it was $\$ 1.25 \mathrm{a}$ pound, and now it is 67 it was. 81.2 a pound, and now it is 67
cents. The Empire is asking her people
to boots when possible and so save the
leather which is so greatly needed by our armies, and is so scarce. The exact
words from the ad. are "Vast quantities of leather are absolutely necessary for
the army and the scarcity is growing
Every pair of shoes we save helps tim Every pair of shoes we save helps to
ease the situation and so serves the
Empire to which we owe this welcome
cheapness ons cheapness of rubbers." This being the
facts it is sard to think there are women,
and women who patriotic, wearing these great long lerys
almost to the knees and the great high
heels which are absolucly almost to the knees and the great high
heels which are absolutely unecessary
and the heels very harmful. Really sensible and good people do
not care one rap for the styles as they
always dress neat and clean and pay no attention to others, although in these
days of such low necks, tight skirts and
ankle-lreaking foowar it it hard not
to pass remarks oo at least to think them. to pass remarks or at least to think them.
Our little thyme says:
Costly thy hatit as thy purse can buy,
But not expressed in fancy; rich, not But not expressed in fancy; rich, not
Foudy; the apparel oft proclaims the man,
shelter. I have actually known people who would have both starved and froze in the winter had it not been for the help
they received from others, and yet those they received from others, and yet those
same people always had the very best and latest style of good clothes. This looks like the height of folly. Why not have clothing in accordance with the
ther things which we must have; and et our underclothing correspond with the outer clothing. Here is a little which I will quote from the Farmer's Advocate bearing on this-"A friend of mine once told me that when she was nursing in
the Toronto General Hospital many the Toronto General Hospital many outer clothing was very showy and even expensive, but that did not prove that the underclothing could bear inspection.
Often it was found that a woman dressed inten it was found that a woman dressed had only filthy rags beneath the outer finery. But a true 'King's Daughter'-one who has the beautiful refinement of character which proves her to be a real princess -may be dressed very simply and plainly on the outside; but her inner she can afford. Some people are only concerned about their appearance in the sight of men. A refined woman shrinks from the vulgarity of wearing cealed by showy finery.". (By the way these people are generally the ones who never sweep under the beds.)
When one is clean and tidy what does matter whether their clothing be of style or of silk and purple cut in the newest style? Let us remember that "fine eathers do not make the bird.
Look at the last line of our rhyme, believe it always proclaims the man. If we ese people dressed slovenly and dirty in silk or print, it matters not which, clothing. Again if we see thêm neat and clean we think that they are the same about other things. People had the plea when the great full skirts were the style, if
they didn't wear them and thereby hinder the manufacturing of so much goods that so many would be thrown out of employ-
ment and therefore 'twas best to wear them and also to have at least one new outfit every season. Perhaps thousands would have been thrown out of work
in that branch, but there is other work in that branch, but there is other work laberers. Take the farm for example. It is a very hard thing to get help of any would be as well wouthout

## at all necessary for women new hat, dress

season or oftener? Once autfit every quate a little from, Once old fain I wiill American fashion, magazine rightly call-
ed "Vanity Fair" fur coats for ladies, which ranged from eight thousand to seventeen thousand dollars each! (I am writing out the figures, for fear you might think there
was a printer's error and that thousands had been put down in mistake for hundreds). Are there women in these
days of terrible need, who will squander such sums for their personal adornment?
How God must pity them! Perhan How God must pity them! Perhaps he
is pitying us too for our selfish hard-
heartedness', the styless, or trying to, not a pack of
nonsense and really wicked perectith in these strenuus times when everyy
cent is needed by the Empire? Besides this it is doing and has done a great
deal of harm in many ways. For exam there are people who cannot afford to
dress as dress as some of the supposed wealthier
people do,and when they don't the others
do not do not recognize them. They eved look as though they were beneath them. The
poorer poorer person generally feels this, and
so is kept waway from church or what-
ever meeting it wickedness ot ob the be. Surely it is is of keeping
anyone away from church or any other
helpful meating helpful meeting. Again, among the other
dressed thengely
many of them tives there is sinning, as
that, God looketh not on the outward apppearance but on the heart", and also
the Bibl and so let us pay for our first fine outs. before we purchase the second one Again the Bible says, "It is good not to eat flesh, drink wine, or to do anything whereby my brother stumbleth. When we truly remember these things we may of good works in this world, remembering that we are only God's stewards. Hoping enough and not too much has been said lall the ther and all that it stands for:

Costly thy habit as thy purse can buy But not e
For the ap

## The Dream House.

The wedding was in chrysanthemum time, and the yellow bloom seemed augury of golden success. At the very las ling, whispered to her mother
"It won't be long. Dick can do a nything he sets himself to. In three years-mayb un, ather to are nearly ready for you and had better start packing, so you Yo e hurried.
It was easy to see where Jenny had go s brigh of hope. The mother's eyes were cheek nearly the daughter's, and her thin her breath, "Two years won't seem so long with the house standing at the end
"They will just fly!" declared Jenny, her held As the wagon turned into the highroad
bearing the bride and bridegroom to the depot on their way to Kansas, Jenny's father privately reflected that at least "ive or six winters would pass before packing. But mother's eyes were still bi with hope when she went indere he neighbor girls wrap up wedding-cake There is no such thing as luck, it is said man ralls down or wins out by the neasure of his fight. But when a half conditions, and it is the poor fllow' horse that puts a foot into a prairie dog hole and must be shot just about Jenny Gray did not try to solve a Jenny Gray did not try to solve
problem so abstruse. Their first spring in Kansas, when Dick told h r about Lady
bird's fate, she put her arm round her husband's neck and said:
Ladybird because yought without poor the mule left, and the cow, and the hogs

But after Dick had gone to work, his wife's straight little scarlet mouth drooped and she looked out the kitchen window, people w, through a veir bears. The old people were back there, waiting, hoping,
and now the house could not be begun
Jenny did not write home about Ladybird's fate. She could not bear to. In out of the weekly own discouragement the future a rosier gold than she usually the foundation of the house "The cellar must be deep enough to any weather," she wrote her mother and of course, the cellar steps will be easy, to make up for the extra one or
two we'll have to climb because of the In being so deep. In the period of sickening despair after
he hogs died. Jenny's kitchen and dinning-room. It was the a barbed-wire fence. The messages that went back east that spring were positively
glowing. By that time the house had got as far as the living-room, and the careful During the hard fifth winter, when they were doing without meat and butter to
pay for a new mule, the old one having pay for a new mule, the old one having
been killed in a cyclone, Jenny began to construct the second story of the house.
toast your feet before going to bed.
Don't forget to bring the little, patch-
work cushion for your footstool."
Her mother's judgment always agreed with Jenny's own. Early in the fifth
spring the older woman wrote, replying spring the older woman wrote, replying
to a vital question:
"Yes, leave the glass in the front door, so that we can peek when the door-bell rings, and see when the visitors are dressups in time to slip white aprons over our
ginghams before letting them in. I think ginghams before letting them in. I think
you are right, too, about not putting on the front porch at first, and waiting until you are able to make it wide."
In the sixth spring, after Jenny's house white, it stood glimmering softl before her tired eyes in the scented dusk of an April day, when Dick came in and
"Jenny, if the crop is below the average his year I can't turn another wheel." For the first time doubt came to the girl. What if they should never be able
to send for, the old folks? Would the naked truth have been best from the beginning? Would it be best now?
over a letter of revelation, and the next morning copied it over three times. But seenly the arrival of the letter at too sagging house back there in the "penny rile." The carrier would stop for a
talk, as usual, mother meanwhile chafing at the delay in reading the precious news she was always expecting, her eyes wide with hope, her mouth trembling and the ensuing silence in the low room would be broken only by the falling apart of night would find the old couple still itting there in silent despair. Maybe that year would bring a wonder
ful golden harvest. They might be able 0 build the house right away after the corn was sold, and send for the old people
next year, after all. So passionate was hope that Jenny believed. passionate was had destroyed the letter of revelation, we won't build this year, after all, but
when we do build we are going to build right. The front porch really ought to be a foot wider than our estimate, if there's stand, and then a side porch ,is almost necessity for sunning pillows. precedented length. In September Dick came in and blurted out, desperately, That's all!"' $\begin{gathered}\text { Jenny pulled Dick's head down until }\end{gathered}$ Jenny pulled Dick's head down until
it rested on her shoulder, and they cried together. Then suddenly she laughed the "Dick, I've just thought how much our
worldyly worldly possessions were like the
l.ittle Niggers in the nursery jingle:
"Ten little niggers sittin' in a line,
L.ightnin' struck one and then there were
and on to the tragic end, when there was
left only
"One little nigger sittin' in the sun,
Crab caught him by the toe and then there was none.
Dick lifted his head and shook the curly forelock out of his eyes in his boyish way who couldn't win with a wife like you isn't
fit to live. To-morrow I'm going in to town fit to live. To-morrow I'm going in to town
and try for a job with a farm-machine and try for a job with a farm-machine
firm. I know I can sell machinery enough to keep us from starving while we are getting on our feet again. The road to
success will be longer, that's all. We will arrive some day.
Jenny thought Dick's plan fine. She
said so, and saw him off on the said so, and saw him off on the ride to
Wichita with a smiling mouth. But she did not write home that day. She sent a picture post-card instead. The dreamhouse was trembling.
Dick came back full had secured a job with the farm-machinery people. The sixty-dollar salary would
pay board for the two and taxes on the land. In a year or two maybe he would
get a raise; then they could begin to put by a little-in five years or so they ranch and begin all over again.
But when the little came round, Jenny sent another picture postal home. In five years maybe they,
could saveenough to "begin all over again."

That would men ten-more than ten-

- years before they could hope to commence building; by that time it would
be too late. The dream-house was fallen Settled in the Wichita boarding-house Jenny Gray forced her hand to pen the the letter that might be no longer delayed -the cruel, naked truth.
The response to the letter of revelation, which came duly, stabbed deeper. The effort the old people made to look on the bright side was piteous.
All that fall, when Jenny sat sewing in her room, there came to her through the open window the sound of hammer
blows falling on a house that was building across the street. The new house was of the type the dream-house had been, and sometimes Jenny could not bear the sound of the busy hammers; she would machine fast to keep from hearing.
"In late winter came a bit of sunshine. "Dear child," wrote her mother, "we
have made up our minds to come to see have made up our minds to come to see than we expected, and we have the money for the tickets and a week's keep at the boarding-house. I can't let my girl stay away out there without seeing her mother any longer. If nothing unforeseen us when the trees bud."
Kansas bloomed early. The first day of April the one tree in the yard of the new house across the street showed a tender green in the top branches. The tiny lawn
had been turfed, and already it green velvet rug. Passers-by invariably noted the neat, complete appearance of the place, but a childish pang came to Jenny every time she saw it. It was so like her dear dream-house. Jenny passionatice the new house during the coming visit-it would hurt so.
But the very day the old people arrived from Kentucky, after luncheon, when Dick had taken her father to see the her mother on the boarding-house porch, felt her heart sink. Her mother was
looking long and interestedly across he street., "Child," the older woman said, "that house over there seems sort of familiar Jenny could not speak because of the
lump in her throat, but her mother went
"Why, it's got two big south windows in
"Why, it's got two big south windows in -an extra wide front porch, I'd call it, n-and a glass front door, and it's painted pure white, with green shutters. Why,
it's for all the world like the house you were going to put up if things hadn't that house just as near perfect as good lumber and good sense can make a house. I'd love dearly to walk through it!"' Jenny changed the subject. But the and father came out on the front porch of the boarding-house to set out on the down-town walk, mother again expressed
her wish to see the inside of the new house across the street. Dick looked at his
"Ive got twenty minutes' margin," he said. "I see a workman or two over there; there's no objection to, our going
through the house right now." through the house right now
Jollowed had no adequate excuse, and tracks and through the gate. The house was all but finished. The two workmen lingered over the last
touches. As Jenny walked behind the touches. As Jenny walked behind the
others through the seven rooms, a strange others through the seven rooms, a strange
excitement clutched her. The new house was not like the dream-house. It was the dream-house come true! As one entranced, she lingered in the tiny
back hall, looking at the ingeniously concealed entrance to the cellarway concealed entrance to the cellarway
which she had planned that loneliest winter out there on the ranch. She heard her father call from the front of the house as from a great distance. Then, blinded by tears for the dear might-have-been, she took her sow way
toward the little living-room, where the others were waiting for her. "Pretty nice, house, ain't it, girl?" Jenny's father's voice was strangely you could get ready to move in next
Jenny's eyes followed the lines of
writing on the paper which her father
handed her, but she did not in the least


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## 

## SALEM SHORTHORNS

Herd headed by Gainford Marquis (Imp), undefeated in England and Canada. Sire of the winuing
group at Canadian National, 1914, 1915 and 1916. Can supply cattle, both seexes, at all times
grasp the meaning of it. Her mother's
words were enlightening:
"We wrote that the year had been more prosperous than we expected, but trusted to luck that you wouldn't read in the papers about the new Western Kentucky and Indiana Railroad that just had to have a slice of the old farm to place. It was your father's idea to puild the house unknown to you, and we were perfectly sure of pleasing you, because we had your plans all complete In the letters you had sent home. We
knew to the day when the house'd be knew to the day when the house'd be Your father built in town because he found out from the head of the farmmachinery firm that Dick has got no business going back to farming, because
of his having such unusual talent for selling farm machinery. His salary'll be going up peg by peg after a little."
The men left
"Mother," said Jenny, after a while have you ever forgiven me for hiding bad news from, you and letting you go until at last I had to write you the heartbreaking facts?
Mother laugh
Mother laughed. Then she said, a little "Well
"Well, to tell the truth, I knew about the the discouragements every time they
came to you-I read them in the extra gilding you'd always put in your next letter. But 1 never let on to you that knew. I believed things'd change for you could feel hopeful. A hopeful heart is the best gift a fairy godmother ever lays in a woman-child's cradle. I've been thankful for mine."-T. D. Pendl.
ton, in 'The Youth's Companion.

The High Cost of Living. Edtor "The Farmer's Advocate": We all know that the high cost of livnd we becoming a very serious problem, way to better the situation.
After reading an article on the above Abject in "The Farmer's Advocate" of April 19th, I was impressed by the way read. It. would be a crashing pity if he extravagance of the mothers, wives and daughters of our land were at the ottom of the high cost of living. We han they are.
Our friend does not mention the habits of extravagance indulged in by some athers, husbands and sons. I think you
will all agree with me on the bread quesvill all agree with me on the bread question, when flour is $\$ 7.00$ a bag, that it
would be impossible to clear four to five cents on every one and one-half pound load of bread by making our own.
If I am not mistaken you will find in the country as many little girls going to
school barefoot as there are boys. As to school barefoot as there are boys, As to
the girls getting a little toilet material, would not cost one-quarter as much as barbers every gentlemen to go into the p, saying nothing of the tobacco and igars they indulge in.
We must remember that "The Farmer's Advocate" is mostly taken by the farmdaughters also. I can truly say that the mothers and daughters are doing their bit, when they are out both mornings and fields to help produce so that the high cost of living will be lessened in the nearest future possible.

I wonder if we remember the quotation
"Ah! wad some power the giftie gie us, it wad from mony a blunder free us, and foolish notion.'

MAIL CONTRACT SEALED TENDERE, addresed it the P






 | POULTRY |
| :--- |
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ish, Game, Poultry, Eggs and Vegetable 348 Dorchester St. West MONTREAL

## catary <br>  Eackiniti hurex ents per word each inertion,              <br> BABCOCK \& SONS <br>  <br>  

It behooves not only the humble mothers to wake us, but all of us, wake "The War Mongers."

## A Farmer's Daughter.

## A Dinner in China

Isabel Anderson, in The Bookman gives the following interesting account of a dinner in Reking
The invitations which the women of our party received to dine with Lady Na were written in black Chinese charac ters on a long piece of red paper. A translation was attached which stated that we were expected to arrive at five o clock, and that dinner would be at seven. custom to reply, but that we must ap pear with the invitations in our hands.
As foreign women are seldom admitted to As foreign women are seldom admitted to even the humbler hames of the Manchus, but a personage of high rank, it was a rar curious invitations.
Starting off in carriages, we passed
Chinese dignitaries serenely squattin Chinese dignitaries serenely squatting
in covered chairs carried by coolies, while outriders were going helter skelter, before and behind them on shaggy ponies. We jinrikshas bearing painted Manchu ladies and Chinese women toddling along on
their tiny broken feet. Bumpity-bump their tiny broken feet. Bumpity-bump
over the rough street we drove while driver snapped his whip and gave long
calls which sounded like "ILar! liar" We went under pailos and through thick walled arches, past grey walls and pink walls, and the glorious yellow-tiled roofs
of the Forbidden City Finally we drew up before Lady Na 's
house, which looked like any other on the outside-a long, grey wall with a hooded entrance gate. Inside, also, we found the
usual arrangement-a walled compound enclosing many courtyards and one-storied buildings, the latter often connected by
bridges or covered passageways. Enter-
ing on foot we passed through one of the courtyards and into a second, where stood
the stone screen placed in every house to the stone screen placed in every house to
keep out the devil, who, according to
Chinese tradition, "can only Chinese trad
straight line.
The devil seems to give them great
concern. On the corners of the roofs
were little curligirs which ar o be useful in tossing the devil he air when he slides down the tiles Along with the little tile animals, the
dragon and the phoenix, which represent happiness and prosperity, comes the is supposed to give the devil a peck when
he comes too near. The Chinese have built lofty pagodas to propitiate thespirits lest they interfere with these gods. For a long time there was a law forbidding order to prevent missionaries from erectPresently we found ourselves at the
Ptrance to a marming There were potted green plants twisted into queer shapes, and small fruit trees
with bunches of crab-apples and beautiful ipening pomegranates hanging from their
branches. Lotus leaves floated on an artificial pond, and bright flowers peeped at us entrance Lady Na and her dacks. At this waiting to greet us. They were noble
Manchu ladies, and they looked like curious flowers in their long, light blue, straight gowns and short jackets, their
faces whitened and rouged beyond belief,
their black hair plastered down with and sewed together at the back, wath oil
mounted by strange black satin topknots with flying buttresses. There were flow-
ers in this head-dress, too, and pearl orna-
nents striking out at different angles.
bracelets on her arms and precious stones bracelets on her arms and precious stones
about her neck. As a rule the Chinese and Manchu women do not associate much. These Chinese ladies all had natural feet, were educated in America and spoke
English, while the Manchu ladies had little English, while the Manchu ladies had little or no education. but in greeting each other they slid their hands upon their knees and bowed low several times. We were escorted into a room where amahs, or maids, to their high shoes and trembling so in their excitement at seeing people from a far-off land that their mutton-fat jade earrings shook in their ears.
We were taken to the big seat of honor, made of teak-wood and marble, in the we had tea for the first time-I say the we had tea for the we had been offered it at least five times in the different pavilions as we walked through the com pound. Lady Na's daughters, who looke about her own age, were presented to $u$ ward. Whether they were all her own children or not we were unable to find out, but we saw no other wives, though we were told that Chinamen or Manchus might have as many as they could afror lived in different parts of the same compound, each one keeping house by hersel An unmarried woman takes precedenc over the married ones, for they say,
haps some day she may be empress
The rooms through which we pa The rooms through which we passed
were all more or less alike: tables and chairs of teak-wood, a European oi painting here, a piece of Japanese em-
broidery there; instead of "God Bless Our Home" there were poems hung upon the walls. On the stone floors, instead of the Golden Tibet Monkey Rug, which they say, "keeps the whole house warm, European carpets. even in September, but in winter it is partially warmed by fires built under the arge beds.
At last dinner was announced. The table was set for sixteen. It was quite
European, with flowers and knives and forks. Course after course-wine after wine. Our hostess proposed one toast after another, saying, "I drink the glass
dry with you!" This seems priate moment to insert a couple of verses of what is said to be perhaps the oldest drinking song in the world-at any rate a than a thousand years before Christ:

## The dew is heavy on the grass, At last the sun is

Fill up, fill up the cups of jade,
All night the dew will heavy lie
Upon the grass and clover.
oo soon, too soon, the dew will dry
It was rather a struggle to keep up
with the conversation. One end of the table was made gay by trying to teach a
Manchu girl English, while Manchu girl English, while some of us passed around our menu cards for the
ladies to write their names on. Some Onglish Chanese ladies had been given Engish names, such as Ida or May,
while others still kept their Chinese ones"Fairy of the Moon" and "Beloved of
the Forest." Lady Na would or could not write her name. Madare Tsi eyes. After dinner, to our amazement some Chinese music was played on the
pianola, while more tea and cigarettes were passed. It was all very interesting
and delightful, but when we drove back to the hotel at half past nine we were so tired and it seemed so late that we This was perhaps the most novel ex-
perience the ladies of the party had while transition period through which the country is passing, when some Chinese
still wear the "cup of tears," as they call their tiny embroidered satin shoes, while
others, who have studied in America or at mission schools, are leaders in the ranks at mission schools, are leaders in the ranks
of progress. One of these latter has gone
so far as to establish so far as to establish a daily newspaper
in Chinese for her own sex. Now that
the Empire has fallen the Empire has fallen and China has that
come a republic

## come a republic the palaces and gardens belonging to the great Manchus may per- haps be seen by the

Preparedness in the Home by helen ward banks.
I'll have to darn this with black silk, for I haven't a strand of brown in the Constance laughed. constance laughed. "You make me "Tell me about it; it will make the "I visite easier
"I visited my two cousins, in turn, in Fennington-it's just one long village Theet, about an hour s ride from the city living opposite each other. One married Golucky and the other a Forehanded.' I remember," nodded Mary
and it is hard to say which young people and it is hard to say which gave me the
warmer welcome. But when the two visits were over, there was no question as to which house was the easier to live
'I'll wager it was the Golucky's Wait and see. The first night I was dark because Johnnie had carried the last box of matches down to his camp and had forgotten to bring it back. At breakfast, the next morning, there were but five eggs to seven people, and I had to pretend to
believe that two of the family never eggs. In the afternoon, some people dropped in to call, and there was a scramble for the tea-tray, which had to be abandoned because the ,closest search petizing than dry soda-crackers. When toward the end of my visit, one of the family went with me to return our calls, she had to scribble her name on my visit-
ing-card, for, as we set out, she found ing-card, for, as we set o
her card-case quite empty.

## Mary laughed.

"Then I moved across the street to the Forehanded branch," continued Constance, and it was like dropping from a whirlpool into a quiet haven. There was a seamstress in the house calling hourly
for all the things seamstresses will de" "Sund." as brown sewing-silk?" inter polated Mar "At each call, a tidy sewing-drawer was opened and out came what was wanted. When it chanced to be the last spool of brown sewing-silk, on a pad in the sewing-bag was written "One package hooks and eyes, No. 1, white. One spool "On Monday morning, Bridget came gloomily up-stairs to complain that her clean clothes were dragging in the dirt for lack of clothespins. Out from some
cupboard came two dozen new clothescupboard came two dozen new clothes-
pins, and to the shopping-list was added pins, and to the shoppin
wonderful system," approve Mary. ${ }^{\text {And such an easy one, once you get }}$ hold of it. In every household, there ar things that are always necessary-matches materials, hairpins, and a hundred other things. They don't cost any more at on ime than another. The Forehandeds buy them in bulk. Before one supply is gone an unbroken package reserved.
and a harbor, I imagine," Mary whirlpoo "Hand me that scrap of paper. Ill head my shopping-list with two spools of brown

An Appeal for French Hospitals.
An appeal is being made by the Cana hospitals in France. The French hosCanads are in need of more equipment and Canada is asked to help as generously as
possible. Money, not goods, is desired
this time

An Irishman was suddenly struck by
"Why didn't yourt?" asked the player "An' why should I get out of the way,
asked Pat. "I didn't know there was any assassins round here.",", said the player
"But I called 'fore'
"and when I say 'fore,"' "and when I say "fore,', shat the player,

JuLywill soo
can be
is weak

The finan
an incenti
sideration
and feedin

July 5,1917
When You Buy Dairy Feed. Editor "The Farmer's Advocate": The purchase of various commercial
foodstuff, with which to balance the home-grown grains, in order to promote largectice that has become pretty largely practice that hat here can be no objection
established. There to this, in fact the procedure is to be most heartily commended if a reasonable amount of intellingence is exercised. Many dairymen have ars very proftable.
To others it has proved to be the pro verbial millstone that has sunk their hope of net returns beneath a sea of expense accounts. Some buy because to them the large milk yield seems to be the thing. The big milk cheque
their vision of the big feed bill.
Others realizing that there will be but little if any profit in the transaction are influenced by what their neighbors are doing. They are acted upon by the law of suggestion,
and buy simply because the other fellow does. men purchase their supply from a local dealer, Here is the place where the first objection ought to be registered. No but that the dealer is a good fellow, he generally is,
little about our business as we know about his. This being true, he can hardly be considered the best judge o what feecs twe should Duy. Acting as a outlet for the goods of the manuacture he wifferent brands on the market and naturally repeats the glowing statements of the former. Under these conditions thousands of tons annually find their way to the farm, and are fed at a loss because In many cases the cost is out of all pro portion to their actual food value. But suppose the materials carried by the local dealer are of high quality, there is another objection. Feed bought at retail costs too much any way. If we
dairymen are to get this matter on a sane and proper basis we must consider ourselves as manufacturers, and the feed we buy as our raw materials. Who ever heard of a manufacturer buying his raw material at retail and selling his finished sheriff would be making his acquaintance due season. Yet that is about what the dairyman as a manufacturer does.
In most cases he is forced to sell his In most cases he is forced to sell his
finished product wholesale. Surely it is not only his right, but a duty to reduce he high cost of production wherever Now, I have said that the local dealer usually a good fellow. It is his busiwhere he It is our business to know what particular kinds we want and how we can get them the cheapest. It would be unfair to accuse our dealer of making
enormous profits from his sales. I doubt enormous profits from his sales. I doubt fortune. At the same time, however, I insist that the dairyman should endeavor to buy at wholesale. There are a numBer of satisfactory ways of doing this. First of all, 1 would give the local dealer locality co-operate in securing their supply in carload lots, tell the dealer just what they want, and pay him for the service rendered, no more. The trouble
of ordering and delivering feed should cost more than fifty cents stould not vided, of course, that the purchasers pay cash. Otherwise the charge must be advanced to one dollar at least. However, 11 buying is to continue on a co-operative cash even if he finds it necessary to borrow the money. It is the real key to the situation. Sometimes a co-operative cheese or creamery company will undertake the buying of feed for their patrons with satisfactory results, while there are
ailso instances of cow-testing association undertaking the same offices.
There are many benefits to be derived from a a dairy' community buying its feed
direct direct. By keeping in close touch with will soon learn that hundreds of dollars can be saved in buying when the demand is weakest and holding the feed until it is
required. Buying at retail is usually required. Buying at retail is usually
done when prices are at top notch, the result of a keen demand. This is not all. The financial advantages gainis wont sideration to the intricate problem of feeds and feeding. Individuals who are buying
their feeds together are likely to have a

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CANADA
－

greater interest in what the other fellow is doing．They will want to compare
notes，make suggestions or conduct ex－ notes，make suggestions or conduct ex－
periments．The interest thus created cannot fail to yield much valuable in－ formation that will aid in cutting down costs and make
more profitable
Elgin Co．，Ont．J．H．McKenney．

Questions and Answers． Miscellaneous．

Succession Duty
A dies，leaves will．The will leaves all to his wife till her death and then divides， leaving money to certain and real estate to others．At A＇s death valuators value the estate for government purposes．If nothing is distributed till after the wife dies and estate accumulates，can the government at end of wife＇s death com in again for its share？
Ans．－Not as the statute law of On tario stands at present；but it might be
amended by the time the widow dies，and the government thereby enabled to reac further succession duties as suggested．

## Chub．

Please describe the color and habits of the common chub．There are no chub in our creek，so have no way of findin
out． Ans．－The chub is a fish belonging to the Cyprinid family，belonging to the same genus，as the roach and dace．It
attains a length of 2 feet，and a weight of 5 to 7 lbs ．It is described as tasteles and full of bones．This description fron
the Encylopaedia Brittanica evidently re fers to the large chub of deep waters．In America the name is commonly given to
smaller fish，such as the river chub smaller fish，such as the river chub．It
gets its name from the head which is of gets its name from the head which is o
inordinate size．The body is oblong scales large，cheeks silvery，head and back a deep dusky green，the sides silvery but in summer yellow，the belly is white
the pectoral fins pale yellow and the the pectoral fins pale yellow，and the
ventral and anal fins red，the tail is forked and of a brownish hue tinged with blue at the end．The average weight of this fish as known in our fresh water stream casionally it is caught weighing more that two pounds．It inhabits streams with sandy or clay bottoms and is found in
deep holes shaded by trees or weeds．It flesh is coarse and bony and little valued It spawns in
the angler．

Cement for Wall and Floor
How much cement will it take to
build a barn basement wall 40 feet by build a barn basement wall 40 feet by
75 feet by 8 feet high，the wall to be 10 inches thick？I have plenty of stone to fill in the wall．Also how much cement
will it take to floor the same basement？ Kindly show plan of a suitable stable of such dimensions．$\quad$ E．C．A．
Ans．－This wall will require 170 cubic feet ol with a mixture of 1 to 9 ．The doors and windows，the size and number of which are not stated，would reduce
the amount to the extent of their cubical the amount to the extent of their cubical
dimensions．We cannot estimate how much would be replaced by the stones built into the wall．No stones should come within either surface of the wall．
Sucha wallshouldbe set on Such a wallshould be set on footings about $11 / 2$ feet wide extending to solid ground
and below the frost line．Every foot
in depth of such footings woul require 34 cubic feet of cement and $123 / \frac{1}{4}$ yards of gravel mixed in the proportion
of 1 to 10 ．If one should be obliged to go 3 feet deep to get below the fros
line in a certain district，three time th stated amount would be required．Whe laying a floor 4 inches thick itiscustomary
to lay about $31 / 2$ inches of rough concrete and finish off with a coat of stronger
materint material．The rough floor would take
97 cuticf feet of cement and $321 / 2$ yards．
of gravel mixed in proportion of 1 to 9 ， and the surface coat $1 / 2$－inch would re culic toet of sand mixed in the proportion
of to 2 ．One bbl．of cement contains cuble feet．It would be impossible t
show illustrations of stables here，bu
a number of plans wert ill ne issue of of plonns were illustrated in
the，1917，from which

## To Fertilize or Not to Fertilize

There are two classes of farmers
（1）Those who fertilize．
（2）Those who don＇t．
Perhaps，we might say，there is a third class and a big class，who have been thinking at long length of starting the use of fertilizers．If you are one of this class，sit down right away and send us your name and address．Our salesman will then call on you and talk the matter over．

## SYDNEY BASIC SLAG

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hands, weight 1,200 to 1,350 lbs., and hands, weight 1,200 to 1,350 COLORS
Any, except Light Gray, White or Light Buckskin. All horses must be sound, of good conformation, free from blemishes, ${ }^{\text {and }}$ broken to harness or saddle.
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Handling Manure at Macdonald College. The practice in handling farmyard
manure on the stock farm at Mactonald
Cin College . might be called the "direct
method". The
Thated the dairy stables twice daily by manure carriers and stored under cover until such time as at can be taker to the
field. It does not freeze to any extent field. It does not freeze to any extent
in this storage. It reachies the field
fit in thin storage It reaches the thed
with two weeks after leaning he table
sot is provided, enough to allow drawing
when it is most convenient. Manure from when it is most convenient. Manure from
the box stalls-in the beef cattle and bull the box stalls - in the beef catry two weeks, in a separate pit where it is tramped, watered if necessary, and allowed to rot somewhat for a few weeks so that it will distribute better when drawn to the
field. The horse manure is handled in the same way. The liquid manure from the gutters flows to a concrete tank. This is emptied by a sewer pump and used to water the horse manure and box stall manure, where it is absorbed, and
at the same time it prevents undue heating in the manure while the rotting process is under way. After attempting to handle this liquid manure in various ways this has been found, under our circumstances,
the most economical and very best the most economical and very best
practice. No liquid is lost and it serves a splendid purpose in keeping and even improving the other manure.
As most of the manure is made during the winter the above practice means that the bulk of it is hauled to the fields to use spreaders they are used for hauling and the manure is spread on the fields at once. When spreaders cannot be used the sleighs take their place and the manure exceptions are made by this practice,--on steep hillsides and where the snow is so deep that it is difficult to break roads through, as happened for about three weeks during the past waced in large piles, distributed in the field so that the minimum amount of drawing will be necessary in spreading later. In no case is the manure distributed in small piles. This
might be justified in late spring, when might be justifaul as much as possible in a given time while the snow lasted but otherwise it is wasteful and not economical of labor. Manure forms one of the biggest labor jobs on Macdonal requirements allow no practice other than the one above outlined. Moreover, it is considered to entall as little loss of fertilizing constituents as any other system that might be adopted Gazette

Pull Your Mustard. Editor "The Farmer's Advocate": You may have in your growing crops pull them now. It is easy to forget about it till the tell-tale bloom is gone and the damage done. Five minutes now will save five hours next year or five years
interrupted rotation of crops later on interrupted rotation of copps
If you are to rid yourself of this pest which easily detracts twenty-five per cent.
from land values at the time of desired from land values at the tw.
sale, pull the mustard now.
sale, pull the mustard now. Mustard seed driven by high winds is,
carried with the sand to your neighbor' field. Pull it before the seed is ripened. No good farmer welcomes the autumn visit of the threshing outfit from a "mustard farm" Pull the mustard now Aim to have yeliowf in late Jly and early and earty
August. Mustard fields are an index to careless or incompetent farming or both Pull the weed. If not destroyed earlier pulling when in ble
method.
Pull it now
Mustard looks bad, acts bad, is bad pull it before it is too late, before its occupation of your acres puts you in the class of shirtless, careless say ""Hes, had whom your neighbor may say, it ha to
once a good farm, but he let go $\underset{\substack{\text { mustardd } \\ \text { Norfolk }}}{ }$ Co., Ont. I. E. Langford.
"How's your boy Josh getting along with his studies?"
"Pleasantly," replied Farmer Corn-,
tassel. "He dontt bother 'em none."
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lay up the horse. $\$ 2.00$ a bottle, delivered Book 1 K free.
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-DR. PAGE'S ENGLISH SPAVIN CURE Cures the lameness from Bone-Spavins, Side-Bones,
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tempers, ett. Send 2č. for mailing packing, etc.
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arrived at our barns late in November. A number of them since have been prominent winners at both
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of the stallions weigh around the ton, and better quality and breeding were never in the stables.
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Victor of Glencairn. All are of servicePETER age, $\begin{aligned} & \text { and } \\ & \text { show individualse } \\ & \text { Hillibburg, Ont }\end{aligned}$ BEAVBR HILL ABBRDEEN-ANGUS AND Cows with calf at foot and bred again.
Shearling rams and ram lambs. Mlex Ayrshire bull calf for sale.
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heifers in caff to Butterfly Champion 110726 .
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lil SHORTHORNS-Pail-fillers for bull and heifers out of high-record sale. Young
young cows and bulls with extra
cood
 Glenfoyle Shorthorns Present offering-three bulls from 10 to 12 months.
Nice, straight, smooth fellows. Prices easy.
Sewart

Questions and Answers Miscellaneous

## Fence Posts Heaving.

 keep the posts in the and I find I can' out one foot in a season. I would like to know if there is any way of stoppingthem from heaving. Ans. -Posts put down in the ground
from three feet to three feet should not heave so badly even
in the in clay land. Of course, in springy a difficult proposition to keep them down Some spike a three or four-foot scantling across near the bottom of the post and down about three and one-half feet in the ground.

Cow Fails to Breed Have a pure-bred cow that has been s not in calf yet. She spring, but shi spring. She is milking fairly well and
is in good condition. G. MCC. Ans.-After losing a calf there is frequently considerable difficulty in getting treatment, which is as follows: ordinary cake of yeast to a paste with a little warm water and allow to stand for 12 hours in a moderately warm place, then stir in one pint of freshly-boiled, ano-warm water and allow to stand for then be ready for use, and the entire quantity should be injected into the vagina of the animal to be bred. Use the mixture when period of heat is first
noticed, and breed when period is about ended.

Gossip.
Ayrshires in Quebec.
While visiting a few farms in the protive was fortunate in having a few mo ments with D. M. Watt, of St. Louis
Station, breeder and importer of purebred Ayrshire cattle. In a very few portations from Scotland, combined the high-quality animals of his home-bred herd have made him one of the best known figures in Ayrshire circles to-day Eastern States across the border the present, the herd numbers around head and is headed by the young sire Killoch Gold Flake, imported by Mr
Watt early in the summer of 1916. Hi the most talked-of sires in Sis one of day, while his dam, White Hill Blue Bell 5th, is a daughter of the noted sire Howie's Rising Sun. Better breeding than this
young sire has would be hard to find in any country, and as an individual he needs to be seen to be best appreciated
Practically everything in the herd, freshen ing from now on, is bred to Killoch Gold Flake, while the young bulls advertised as Burnside Ben, a son of Duke Clarence of Barcheskie (imp.), Auchenbrain Gen eral White (imp.), Kilnford Rent Payer etc. All are choice, well-grown youngsters, Mostly all are now nearing serviceable
age, and are from some of the best cows in the herd. Borland Granny 6th (imp.) one of the most perfect cows that has $50-\mathrm{lb}$. a day two-year-old, is the dam Pane of the bulls referred to. Kilnford Pansy Bra (imp., a tine she imported the summer and freshened to Old Country herd are Dewdrop, a 60-1b--a-day cow by Burnside Ben; Kilnford Prilly, one of the Fast persistent minkers ever imported; type. Write Mr. Watt any time you are interested in Ayrshire cows, Ayrshire
bulls, or even the Ayrshire breed in general.

The "International" Album There is ready for distribution the
1916 Review \& Album of the International Live Stock Exhibition, Chicago. This ted and valuable to all stockmen. It is well bound in cloth. Copies may be otained from B. 1. Heide, Secretary


> ESCANA FARM SHORTHORNS
> $\begin{aligned} & \text { Sires in use; NEWTON GRAND CHAMPION (IMP.), a Marr Clara, recently imported, and } \\ & \text { RIGHT SORT (IMP.). His get has won numerous first and special prizes at Toronto. }\end{aligned}$
> $\begin{aligned} & \text { FOR SALE-Seven bulls, choice individuals at reasonable prices. Also a dozen } \\ & \text { cows aad heifers, some of them bred to our herd sires. Herd numbers } 100 \text {. }\end{aligned}$
> Mitchell BROTHERS

There are men that have good Shorthorn Herds that need good bulls to head them There are men that have herds that are kept to breed thick, easy-feeding cattle and There are men that are trying hard to start improvement in their own herds and in their neighborhoods
I have a suitable bull for each at a moderate price and I PAY THE FREIGHT Business established

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## Questions and Answers．

 Miscellaneous．Reducing Swelling of Ankle． A young mare has a swollen ankle on the inside．I don＇t know how long it has
been there，but it is quite hard．It does been there，but it is quite hard．It does not seem to affect her any except for
interfering．What will reduce the lump？

R．A．D．
Ans．－Apply an absorbent liniment
with smart friction． with smart friction．Liniment made of 4
drams each of iodine and iodide of drams each of iodine and each of alcohol and glycerine．If this fails to reduce the
swelling try a blister of 2 drams each of swelling，try a blister of 2 drams each of
biniodide of mercury and cantharides， biniodide of mercury and canther The
mixed with 2 ounces of vaseline．The hair should be clipped before application
is made and care taken that the mare cannot bite it．It may be necessary to re－ peat this blister in a couple of weeks． After applying the blister rub with sweet oil to soften the scale．

## Rocket Cress．

What is the name of the enclosed weed？ It has a yellow flower and appeared in a tion of the plant，together with the best means of eradicating it．M．O． Ans．－The plant received at this office is believed to be rocket cress，which is similar to the rocket found growing in
alfalfa fields a few years ago．It belongs to the mustard family and somewhat re－ sembles common mustard．This weed is not classed as noxious at the present time，
but it may become bad enough to cause but it may become bad enough to cause
considerable trouble if it is allowed to seed profusely．It is an annual，therefore，it can be controlled by preventing the plants maturing seed．If the field is gone over and the plants all pulled there－should be
little trouble from this weed the seeds may remain in the ground some time，and when brought to the surface germinate and grow：This necessitates keeping a close watch on the grain fields．
By exercising care this weed should not By exercising care this weed should not be
difficult to keep under control

## Curbing a Well．

weli which is 10 feet long， 4 feet dee and 4 feet wide．How thick should the
wall be？In what proportion should the wall be？In what proportion should the
concrete be mixed？
2．How much cement will it take？
3．Will cement spoil the water for drinking purposes？
4．Should there be holes in the walls

Ans．－1．A 10 －inch wall should be
thick enough，and mixing in the
tion of one part gravel to eight of cement
ought to be strong enough．
2．The walls will require about four
barrels of cement．
3．Cement will make the water a little
harder but should not ing purposes．
the box or well it would be necessary to
have holes in the walls．However，with an earth bottom the water would ooze
up through it and reach the same height
asit would if permited holes in the walls．

## Tanning Hides

I have a few woodchuck hides and would
like to know if they an be sucesfuly
tanned at home to make shoe－lace leather．
What is the recipe for tanning？What
the tannery？
Ans．－It is advisable to send the hides
to a tannery as nuch better work can be
done there than can be done
done there than can be done at home with
only meagre equipment．The cost of
tanning a hide varies with the size if it is decided to varies with the size．If
soak well in soft water for two or home thre
sor
＂TORONTO＂Engines Make Good里 Better Ensilage at less Cost with The IDRONTD Economy

The comparatively low cost of wood staves－the quickness and ease of erection－and the extra capacity afforded by the new HIP－ROOF－make the TORONTO
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 world＇s record cow，Only one other 41－1／．bull in Canada．
Send forextended peedigees and prices on these a nd others，a few of serviceable age，are from a 111－1b．
cow．We guarantee satisfaction．Twenty－five females for sale． R．W．E．burnaby （Farm at Stop 55，Yonge St．Radial） JEFFERSON，ONT．

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er cent．the whot


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 Must have quality and R.O.P. records.
James BegG \& SON

Questions and Answens. Miscellaneous.

## Scrub Bulls.

three scrub bulls, two three or five two or old in his bush pasture along the road? 2. If he does and a neighbor is lead-
ing a pure-bred cow along the road taking a p pure-bred cow along the road tak-
ing her to a pure-bred bull, and said scrub big her to a pure-bred bul, and said scrun
bulls, all three of them, break out, and
the attendant of pure-bred cow and owner of bults are purebred cow and
them from to prevent them from breading her, without en-
dangering their lives, what can be done dangering their lives, what can be done
about it?
I. F. S. Ans.-1. There is no law to prevent
man from keeping scrub bulls pryt man from keeping scrub bulls, but if the
trespass or do any damaze he bi b trespass or do any damage he is liable.
2. The owner of the bulls is liable the extent of damage done, which would be the difference between the value of
pure-bred and a grade calf pure-bred and a grade calf.

## Wire Worms

How would you treat a field that is bad-
ly infested with wire worm? ly infested with wire worms? I have six acres sown with oats and seeded, and the
balance of about balance of about two acres planted to
corn. The oats are hardly ing, but the clover is apparently all right I have pulled up several stalks of corn and found two worms on each. The field
has been in a hoed crop far several years has been in a hoed crop for several years.
Why are the worms so had? Ans.-It is unusual for wire worms to Ans--It it unusual for wire worms to
be thick after a field has been in hoed crops for several years. They are usually most prevalent the second year after
breaking old sod. Evidently conditions breaking old sod. Evidently conditions
have been favorable for breeding of these have been favorable for breeding of these
insects. Possibly the eggs were laid below the depth of cultivation. It is
doubtfulif anything can be done to offset their ravages this year. We have known
of salt being applied at the rate of 200 of salt being applied at the rate of 200
pounds to the acre with apparently good pounds to the acre with apparently good
results. However, the salt has no effect results. Howerms an they will live in a
on the wire worms
weak brine. The salt may have acte as a stimulant to the crop and forced it
ahead. If the field is run down, increasahead. If the field is run down, increas-
ing the fertility will give the crop a chance to get ahead of the worms. Wire
worms do not attack huckwheat. flax peas to any great extent. Clover is not immune, and if the worms are bad it is
possible that they will turn on this crop after finishing the oats. There is still time to sow millet or even buckwheat.
Rape could also be sown, which would furnish pasture in the fall.

Scours in Nursing Pigs.
Please publish a remedy for scours in
litle pigs. I have a litter ready to wean little pigs. I have a litter reacy to wean
and they are dying off. Kindly advise Ans.-In Wisconsin Bulletin 184, Dr. Alexander writes as follows: When
young nursing pigs begin to scour, it is evident that them, and immediate at tention, therefore, should be directed towards improving her ration. Most often
the trouble comes from overfeding the trouble comes from overfeeding ow
corn or other rich feed, iust after farrow orn or other rich feed, just atter farrow
ing, and pigs of fat, flabby, pampered cross, nervous, constipated sows are most
apt to suffer. Sudden changes of feed apt, to suffer. Sudden changes of feed,
or feeding sour or decomposing slop, or feed from dirty troughs or sour swill barrels, also tend to cause diarrinoea either
in nursing pigs or those that have been
weened and all such causes should be weaned, and all such causes should be "To correct scouring in nursing pigs, give the sow 15 to 20 grains sulphate of morning, and if neecssary slightly increase
the dose until effective. Lime water the dose until effective. Lime water
may, with advantage, be freely mixed may, with advantage, be freely mixed
with the slop as a preventive when there with the slop as a preventive wrafter the is a
trouble has been checked, and it is also
n excellent corrective for weaned pigs showing a tendency to scour on slop or shlim-milk. Where little pirs are scouring
severely, each may, with advantage, be severely, each may, with advantage, be
given a raw egg and 5 to 10 grains of subgiven a raw egg and 5 to 10 grains of sub-
nitrate of bismuth twice daily, in addition to changing the feed of the sow and mixing copperas in her slop. In cases which
do not promptly respond to treatment do not promptly respond to treatment, success may follow ine administration of In all cases it is important to set right all errors in diet and sanitation, and to provide the pigs with dry, sunny, well-venti-
lated quarters. always most apt to occur, and sure to sanitary conditions.

## MANOR FARM

Senior Herd Sire is KING SEGIS PONTIAC POSCH
Sire, King Segis Pontiac Alcartra (the $\mathbf{\$ 5 0 , 0 0 0}$ bull) Dam, Fairmont Netherland Posch

7-DAY RECORD, 4 YEARS, 29 DAYS

|  |
| :---: |
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Junior Herd Sire is
KING KORNDYKE SADIE KEYES
Sire, Sir Sadie Korndyke Segis
Dam, Lulu Keyes
7-DAY RECORD
Butter..................... 36.05
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What better combination can be had? I have no sons from my junior sire yet; there are just a few left from King, from goobd A. R. O. dams, and priced right to sell.

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SENSATIONAL OFFERING IN 30-LB. BULLS We have at present several 30-lb, bred bulls, all nearing serviceable age, that must go out to several of the country's best herds in the near future. They are sired by
one of the three sires used in the herd during the past year. Pontiac Korndyke of Het Loo., Avondale Pontiac Echo, or King Segis Alcartra Spofford. Our herd contains more $30-\mathrm{-b}$. cows than any other herd of equal size in the Dominion. Extended pedigrees mailed on request.
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 as seven-day record of 29.34 lbs . butter, and Count Faforit Sylvia Segie, highly strained in the blood of the world's only 50 -1b, cow.
Joseph Kilgour, Phone, Toronto, Adelaide 3900, Belmont 184, Eglinton, Ont.

Hospital for Insane--Hamilton, Ont. Present offerings are 4 grandsons of Dutchland Colantha Sir Mona, and high-testing, large-producing R. of P. dams of Korndyke and Aaggie DeKol

## WANTED--Registered Females

I am on the market for a number of pure-bred Holstein females, with records up to 30 lbs. Would be pleased to hear from you as to what you have to offer. Kindly state
in your first letter, pedigree, price and full information, with photo of each animal W. G. Bailey, R.R. No. 4, Paris, Ont. Oak Park Stock Farm SUMMER HILL HOLSTEINS
 D. G. FLATT \& SON - R. R. 2, Hamilton, Ont. - Phone 7165 Lyndenwood Holsteins
Present offering, a bull, 16 months, whose dam won 2nd, Ottawa Dairy Test, 1916. One 11 -months bull
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HOLSTEIN BULLS-HOLSTEIN FEMALES
King Walker Pride is our present herd sire; he is a son of the great King, Walker and the noted
show cow Pride Hengerveld Lennox, 30.11 lbs of butter in 7 days. We still have a few sons of his left, and all are from our own high-record dams. Couild also spare several two-year-old heifers, Come
and see our herd. Collver $V$. Robbins, Perty Sta., M.C.R., Fenwick Sta., T.H. \& B., Wellandport, Ont Edgeley Stock Farm
 mprove your herd? We have them. Write for particulars.
WIS. BAGG \& SON,
Woodridge, C. P. R.; Concord, G. T. R.
EDGELEY, ONT.

Glenhurst Ayrshires $\begin{gathered}\text { For } 50 \text { years } \mathrm{I} \text { have been breeding the great Foo } \\ \text { tribe of Ayrbires; dozens of them } \\ \text { nave been }\end{gathered}$
 lut io months of, age, females all ages. If this kind of production appeals to you.
write mes Benning, Williamstown, Ont.
Jamer


## Yorkshires

From choice stock on both sides. Several young litters. Also some young sows, ready to be bred.
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Tamworth Breeding Stock Young sows in pip, also males and females HEROLD'S FARMS, Beamsville, Ont.
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## TAMWORTHS

 YORKSHIRES $\begin{gathered}\text { Sows } 170 \text { lbs. and under, } \\ \text { not yet bred. } \\ \text { Boars } 2 \text { and }\end{gathered}$
 un your wants.
Wm. Manniog \& Sons,
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 ewes, any age, from imp, stock prices serasoms or or Mariston Tamwort hs and Shorthorrs.
TTamworthom the pirizewinning herds of England.
 $\frac{\text { Etrin. } \text { CHAS. CUTRII, Morriston. oilking }}{\text { MEDOW BROOK YORESHIRES. }}$ From the best strains of the breed. Achoice lot of
young pise of eitherser and almost any age. Also
sows bred and other reaty Sows brea and others ready to brede Prices
Reasobele.
R. R. No. 3 . Huron Co.
Pine Grove Yorkshires $\begin{gathered}\text { Bred from prize. } \\ \text { winning stock of }\end{gathered}$
 reasonable erices. Guaranted eatisfaction.
Joseph Featherston $\mathbb{X}$ Son, Streetervill PROSPECT HILL BERKSHIRES
 right. John Welr \& Son, Paris, Ont.. R. R.

 Polands, Durocs and Berkshires
 Cecil Stobbs,
 Cubert Malotere. R. R. No. 3 . Wheat tey. Ont


Preparing for Bee-Keeping in 1918.
Editor "The Farmer's Advocate" While a maximum production of honey is of pressing importance in this war-food
year, yet increasing the bees for next season must not be neglected.
Roughly speaking, the bees that are in the hives at the commencement of the honey-flow gather the crop, while the
brood builds up the colony for nevt year unless there is to be another important honey-fow. This brood is very valuable
for forming nuclei, because these stanted early with a laying queen, or ripe queen cell, will build up into strong colonies be brood from strong colonies during the honey-flow is the basic principle upon which an apiary can be quickly built up honey crop is secured
In newly-formed nuclei containing brood in all stages there is always more
or less desertion of bees and consequent death of the young brood and sometines hilling and death of the older brood eve when the nuclei are skilfully made by an experienced apiarist. Further, queens
may not be immediately obtainable s they may be lost in introduction. Robbing of the newly-formed nuclei has also to be guarded against, but during the
height of the honey-flow only careless ness will cause this; towards its ens however cause this; towards its end great that it cis difer of robbing grows formed nuclei sertion may be checked by stopping the
entrance with grass; the bees will make their way out when the grass dries and shimks in about two days, but care must
be taken to avoid overcrowding the confined bees, which would lead to stiffing,
especially in hot weather especialy in hot weather. A good way
to overcome the loss of young brood is to place the brood over a queen exclud
a week before its removal from the parent hive. This may be done in the ordinary
course of relieving congestion in the brood
chas. ing, a frame or two of empty comb or chamation being placed in the
chamber when the brood is raised All of these risks may be greatly min
mized as follows: Have all the gueens wings clipped (this is not essential), and sired to prony of a strain that it is de parent hive to a new stand, and place
the swarm in an ent stand, the queen having been picked of the ground and placed in the empty hive
The swarm will reed at the old stand. The field bees will now
join the transferred from the parent hivould be swarm which will produce the crop of
honey but rich in brood, is divided af bee consisting of two or three frames containthree queen cells containing queens oo to emerge with the adhering bees. that it not only controls and satisfies the helps to secure the desired ends by natura gated into a strong force, and the begre
geod
being chilled; the bees desert neither it nor the The bees in the newly queens is avoided in the post-swarming stage, wher thei
instinct is to spread themselves over and
inclut incubate as much brood as possible, and
especially the queen cells. The begimner should be warned not to
divide the parent colony into too many
weak nuclei, tout this fault may bectifit
$\qquad$



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## VIKING

Cream Separators of Quality
Young BRAMPTON JERSEYS Bulls
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 ADAM THOMSON $\begin{gathered}\text { strain of the breed, both sexes, any age. } \\ \text { R. R. No. 1, } \\ \text { Stratford, Ontario }\end{gathered}$
ENGLSH LARGE BLAGK PIGS

ELMHURST LARGE ENGLISH BERKSHIRES

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We pay highest market price for butter－fat．Supply cans for shipping．

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der corn or painful callia and der corn or painful callua and
instantly the sorenese disap－ pears，then shortly you fill find the corn or callus so looee
that you can just lift it of that you can just iift it of
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Hard corns，boft corkis，on corns between the torns，aloft corghe，an carnu between the toes，also toughened
eany．It ist shivivel up and lift off so It works like anderfarm．Seems magical

HOMESEEKERS＇ EXCURSIONS


MAY 8th TO OCTOBER soth TUESDAY THURSDAY＇S STEAMER Great Lakes Routes
Your Future is In the West Camade fortil prariries have put woestorn

Canadian Paclflc


Gossip．
Farnham Oxford Downs Our live－stock advertising columns contain the advertisement of Henry
Arkell and Son who for 40 years have used＂The Advocate＂to place their
sheep＂before sheep before the breeders．The flock
was established thrent was established through selections from
the best flocls in the best flocks in England，the initial
importations being made in 1881 a procord as this is sure to inspire coch fidence on the part of buyers．Of late years．Messrs．Arkell have quit the show－ring and have made a speciality of breeding animals，paying particular
attention to flock headers． Oxford Downs have made rarnham over Canada and the United States，
and this explains and this explains．the success of the
flock，the beginning of which lock，the beginning of which dates
back＇almost half a century formation regarding this year＇s offering see the advertisement and write to Mr ． Arkell for full particulars．
Pettit＇s Shorthorn Importation Arrives．
Shorthorn breeders and importers have not in the past two years found a very easy task to get sufficient cattle in Britain to，in many cases，even re plenish their own herds let alone supply an animal or two at odd times to their
very oldest customers vecy oldest customers．Contrary to ex－
pectations，early in 1916 when the war began to promise two，three or four more years＇duration，prices for all breed－ ing cattle in England seemed directly level，with the result tha a new high side of the Atlantic，not willing to pay the enormous advance in prices，have missed the more regular importation of ormer years．Great as these difficulties the way of the annual importations the firm of J．A．\＆H．M．Pettit of Free man，Ont．Early in the season of 1916 head mas intation of upwards of 60 head was on hand as usual，and now again their stables are once more filled sized up by a representative of this paper as＂a uniformly good lot＂，thirty－six
females and two females and two young bulls，The bulls，
which are 17 and 18 ， weich are 17 and 18 －month calves， The former is an Emmeline，by the Duthie buil，Royal Knight，while the latter on the dam＇s side is a straight bred Lan－ bulls are entitled to a little pore ；both The females，however have shipped exceptionally well．With the exceptions of one four－year－old Claret cow，and two yearing heriers，all are two－year heifers， and．Seventy－five per cent of on the portation are roans with the balance whites，and reds，red predominating． One might add that there is not a badly important to say that，there it is far more heifer in the lot．Every heifer is well grown，the majority have both scale and character，and then comes breeding which always has been the Pettit firm s long suit＂．Every pedigree attached
has a Duthie，Anderson，Marr or Bruce bred sire right at the top．The Bruce Mayilowers are all direct from Heather－ wick and are bred to the great bulls in service，Proud Star，Proud Chief and
Golden Primrose．The Lancaster bred to Collynie Silver Crest Lady Duthie－bred bull；the Roan Lady to Bapton Prince Henry，a Deane Willis sire；the Missies to Burgie Underwood， The latter are Duthie－bred bingleader． Rosebuds，Bessies，Rosewoods Agustes Secrets and Brawaith Buds are the other lamilies represented and having been selected from some of the best herds in best sires of the day．The offering surely affords breeders a chance of getting choicely bred heifer carrying an imported cail that should in a short time reduce he first cost to a minimum．Messrs， Pettit report the following recent sales，
to Canadian breeders：to Cecil Philys， Janetville，Ont．，a Marr Flora cow with a heifer calf at foot，also a Kilbean Beauty heifer；to Patrick Maloney， a 10 －months roan imported Broadhooks call by Prince Clarion；to Frank Brown，
Dundas，a roan 10－months Rosewood calf．Archie Pilkey，Wexford，Ont．，got a 9 －monthis imported Princess Royal
calf，and Samuel／Lyons \＆Son，Dunville， calf，and Samuelinyons \＆
a two－year－old Missie bull．

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and 10 ft ．sizes，for either one or two horses．Write for free descriptive folder．

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