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## RAW FURS

 c. H. ROGERS, WALKERTON, ONT.

## The Farmer's Advocate Home Magázine

## EDITORIAL.

 culture must not lag.More milk will require either more feed of more judicious use of the feed fed. Study

An article in this issue des ribes some stee feeding operations. Give us your method an:l its results.

Live stock will not object to the color of the grain nor yet to sprouts, but they do not, as a rule, relish musty feed oi any kind.
In no other way can the rent or interest on
invested money be met invested money be met by the farmers of this good stock.
At present it does not look as though there would be any unemployment problem in the rural districts next summer, and there should be none
in the cities.

Most New Year resolutions are broken, bu those who resolved to be better farmers in 1915 than they were in 1915 surely will do their part to keep their good pledge.

We can scarcely believe that the Kaliser is anxious for spring. We would rather think that he is anxious about what will happen to him when spring comes.

Every farmer could get exgs in winter if he
pullets, fompose his laying foc's of early-hatched
a light, well-ventilated, dry house
If the Farmers' Club in your district ha made a success of buying or selling, give our readers the benefit of your experience. Handing goods together pays well if properly managed.
It must keep the Kaiser busy looking for a new front upon which to open an attack. Graduwild man of Eurore grows stronger and tighter. Go to the Institute meeting and take part in the discussions. If you cannot agree with the speaker say so, with reasons, and so help the meeting to prove interesting and valuable to all.

It is' not always the stock that is most closely housed that comes through the winter in the best condition. Very often young ca:tla, feeding ewes and breeding sows do better with the run shelter. Of course, they must be liberally fed.

The question of whether or not a man should enter the fight now being waged for freedom, should be decided by him on the basis of duty. If he can be of more service at the front as a would for a moment attempt to influence him otherwise, but if he feels that the old farm is a factor in this fight and must le worked to the
utmost, and that his duty lies in that direction utmost, and that his duty lies in that direction,
then no one can point the finger of scorn at him for doing his duty at home. , Produce more ! It requires men to produce even as much as CanIt requires men to produce even as much as Can-
ada did this year.

LONDON, ONTARIO, JANUARY 6, 1916.
L.ast week we adised Handling. possibly, arrange it to all those who could manure to the land, as made, ur winter. spreading it on the snow. This is a great summer labor-saver, and as a general thing ensures much smaller loss of plant food than where tha .manure is badly looked after in the yard, subjected to rains, and often water from the eaves pouring over it, into it, and through it carrying have its most valuable constituents. Analyses have shown that resh stable manure contains about 12 tcs . of nitrogen, 2.7 ths . of pho.sphurus, and 9.1 lbs . of potassium, per ton, while, after remalning thrce months in the yard, such manure contains only 7.4 ms. of nitrogen, 2.3 of phosphorous, and 3.4 of potassium. There is a heavy loss of nitrogen and potassium. Experiments have proven that yfields of grain and hay after fresh manure has been applied have been considerably larger than after an equa: 'quantity of manure which had remained some months in the yard. The manure should go to the field as
This year, whan labor promises to be very scarce, the practice of hauling out and spreading as made should appeal to all, and as a laborequipped hauling many have thetir stables so team the and slelg, (or wagon) and load ready for he field, thus saving one handling. A representative of this paper recently visited several steer feeders, and found that most of them had ado stabled method getting the manure fronn he stable to the field by the most direct route. Those using litter carriers or having stables which could be better arranged through, their use han by the wide passage for them, can very easily load their sleighs for the field by dumping the carrier into the sleigh and drawing away each day as the sligh is loaded. This practice is important as a labor-saver, and as a conserver of plant food.

## Building Up the Farm.

I) uring the next few years farm labor is likely to be comparatively scarce in Canada, and the armer's ingenuity may be taxed to the utmost in devising means by which the production of his farm may be kept at the maximum with the minimum amount of hired help, and at the same time ensure that the fertility of his land be not depleted. In short, the good farmer must plan to build up his farm with as li tle labor as possible. It has been time and ag in demonstrated that the easiert way, and, at the same time, the surest and safest method of doing this is through keeping live stoc"s of some lide and seeding down the increased acreare necssary to pasture the stock and provide hay for winter feeding Where the help is available, of course the best farmer must have a fairly short rotation of crops, but even this ma'es him less rush work thay where the greater part of the farm is in cereals, necessitating more plowing and more cultivation and a greater rush through the summer season distributes with I l nty of pasture and hay land is remove is removed earlier in the season, thus obviating, much orain is production is grown and ripens at once. And pron. busy utilizing his labor and his feed to the best advantage in finishing live stock for market or
in producing milk. We believe, then, the best method to follow, if the farm is to be buift up and profitable returns derived from it while hired help is hard to get, that a good deal should be help is hard to get, that a good deal should be quantitatively and qualitatively. It is possible to clean a farm and increase its fertility through judicious pasturing, and the growth of the necessary corn or root crops to properly balance the rations of llve stock through the winter. We would favor corn, we might say here, because it requires less hoeing and can be cleaned with much less man-labor than either turnips or mangels, however, these latter crops their place. But the pasturing, itself, if the feld is properly seeded and looked after, wII serve to clean the land. We know one field which was badly infested with wild oats and which is now free from this pest, and is, as well, free from most other weeds. This field has been seeded down for four years, with hay cut from it three, pastured after each hay crop, and the fourth year pastured throughout the season, a number of sheep befng the main stock kept upon it. It has returned a good profit from hay and pasture, and has gained in fertility and is much more valuable now because it is clean. The three main polnts to be loosed after in building up the farm should be hoed crops, grass and clover crops, and live stock, and where the necessity arise through shorta'ze of help a farm can be well managed with more grass and pasture and less grain orops than usual.

## Prompt Action Necessary.

We were pleased last week to be able to announce that the Ontarlo Horse Breeders' Association 'has appointed a committee of wellknown horsemen to confer with the Minister of Agriculture and other agricultural authorities at Ottawa with a rliew to, in some melasure at least, remedying horse market conditions in this country; partlcularly in so far as theos are the result of conditions incident upon the war, and the closing of outside horse markets to this country. The isituation has not been satisfactory for months past. Farmers have not been able to find a market for their surplus horses, and naturally they began to ask why, when they saw load after load of horses from the United States passing through on the way to the battle-grounds of Europe. The writer was in a stable only a few days ago where a farmer had eight horses, and only had wor's for four. These were purebred animals and not suitable for military purposes. However, there are large numbers of suitable horses for army purposes aing held on suitable horses for army purposes ileing held on bean and lhey were lea foals as well as and foals as well as do the farm work, and all to the profit of the farmer. We have felt for some time that something should be done to insure ou horsemen a market at a fair price for the horses which they have now held a year, unsaleable, We hope the committes appointed states the case plainly when they get to Ottawa, and that the Minister and all those interested in agriculture and the horse business may bring about something which will make a keener demand for Can adian horses. If the Allied Governments could be induced to, or were permitted to, buy in this country, we feel sure that a keener demand would soon result. If the present condition of affairs goes on very much longer it is surely going to

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the leading agricultúral journal in the

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agents for "The Farmer's Advocate and Home Journal,"
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have a very detrimental effect upon the horsebreeding industry of Canada. Many mares which not bred in been ralsing colts next year were miss in 1916. Also, as is the usual case when the horse market is dull, many farmers use the poorer class of sires because they can get the use of them cheaper, and this in itself is a blow to the business. What should be done when the deand be sure of to use nothing but the very best some price, but almost invariably the opposite course is taken and the horse industry is injured thereby. Prompt action is necessary to do justic oo the Canadian farmer and to the horse-breeding

## Neglected Training

Some farmers lose for themselves many dollars by neglecting the early training of their live
stock. We have attended a large number of sales n our time where the live stock offered was not sold to the best advantage, because it appeared wild in the sale ring and had never been broken
to lead properly on the halter. As a general to lead properly on the halter. As a general
thing, on the farm, horses are the only class of tock well broken to leard, but it is almost equal ty emportant that the cattle, particularly the
breeding stock and especially pure-bred breeding stock, should be broken to lead as calves the halter, showing no nervousness, and, at the observer. It cuts one hest anpearance to th bred stock when it must be turned loose in th ring and bolts here and there, from side to side
prastically unmanageable. It would only reguir short time cach day during the win'er month o break calves to lead, and onc win er month
the harness on, and which is ruaning loose in properly. having never been broken to such conditio. his colt, it ouered for sale near his value. He is and bring anywhere now training No colt should from its dam before it has had at least some training at leading and handling. These thing cannot be forced upon the stock when they ge older, but if done at the proper time give the animals more confidence in their attendants and reduce their nervousness to a minimum, make them better feeders, more docile, more valuaible as breeders, and the training stands their owner In good stead if they are chanced to be offered for sale at auction or otherwise. The same is true to a lesser degree with sheep and pigs. buyer always likes to see sheep quiet, and ac customed to being handled, and he does not care o purchase breeding pigs which are ifterally as wild as hawks. The best stockman gives al the stock an early training in being handled, and teaches theni not to be arrald of the attendant arnessed and driven at an early age. The cat tle are all taught the meaning of the halter in calfhood, and the sheep and plgs walk towar the attendant rather than run away from him stock.

## Foundations for 1916.

building is never stronger than its foundaion, and the farmer should, at the present time be laying the foundations for his work in 1916 The best farmers of the twentleth century ar ning and arranging for the work of the year must we done durling the first three months of that year in order that the remainder may turn out to the best advantage for the busy tiller of th soll. Crop rotations may have to be altered to suit changing conditions. Labor grows scarce and will fe increasingly scarce during the coming summer, and it will be necessary for the farme to so lay the foundations of his work that mos of it can be accomplished by himself and the help he has with'n his own home or through co operation with his neighbors. It is this ooin upon which we wish to dwell. The sodial con ditions in the country are not what they once were. Bees and the interchange of farm nelp have been growing scarcer each year, un'il about the ondy time one farmer hal"s another is a threshing and sito filling season. It would be good thing if farmers in the different commun ties would get together this winter, at their Farm ers Club meetings, literary or sozial gatherings, or would call special meetings for the purpos of discussing how best to meet conditions durin he coming year. Where noighbor plans to hel nighnor, a great deal more work can very often b accomplished than where each works by himself We would say that co-operation between farmer in a very local way should be made one of th vork and oin we fould ttend all hain we would adse that farmer rict, in are what is coing on, and so avail themcelves of any hints that may might improve their own conditions during the oming year. There seems to be a sort tricts. katherings sonal contact with other peonle always elevates the man who is capable of sifting the whent fro ceading of the latest means do not neglect the excuse is often heard those days, that with all is work the farmer has no time to rad agri other literature of the agricultural bulletins, and time is taken up in becoming famulior ith spar news. We cannot afford to allow the dolngs in which doings anders on the oher front
ess of our army depends upon the efficiency our farmers, and how well it is applied. Plan rotations, plan cultivation, plan for more and better live stock, plan co-operation with ncighbors, plan more social intercourse, plan for better times, better farming and higher returas Now is the time, by planning, io surengthen the 1916 effort. Success to all

## John Hay and the German Con

 spiracy.dew on side light from the American point of view on the international machinations, of Germany is thrown by "'I he Life of John Hay," one
of the really important biographical works of the past year. With the advantage of a liberal education he enjoyed at an early day the singular privilege of being Secretary to probably the greatest of all Americans, Abraham the four year's war period, when the Presiing the was hampered with all sorts of ill-advised designs organized and otherwise for a peace that would have proven inconclusive, and mischievous for an age to come by abandoning the great
cause involved in the conffict. But Lincoln was too wise and resolute a man to be swerved by weak-kneed advisers, Subsequently, Hay became Secretary to the U. S. legations at Paris Vienna, and Madrid, an editor on the New York Tribune, Ambassador to Great Britain, and Sec Roosevelt, directing the peace negotiations with Spain and other critical affairs. He was, there fore, in a position to understand the intricacles
of European affilirs about as well as any one $m_{\mathrm{a}} \mathrm{n}$ could, and early became profoundly distrustful of the Pan-German policy which has now precipitated in the most terrific conflict of all history. He was one of the very few who diagnosed It as
a conspiracy or intrigue against the United States and other powers, although he probably could noc perceive all its ramifications, nor the time and place of its outbreak. He saw German teaching and organization gradually permeating
the United States, until to-day it seems powerthe United States, until to-day it seems power-
ful enough to almost hold the Washington Government in leash. As early as 1896, Hay sisted German designs calculated to favor Spain. Part and parcel of the plottings were the Kaiser's
secret negotiations to secure two harbors off the coast of Lower California and to occupy varlous South American ports. President Roosevelt met him squarely, and Secretary Hay was in no wise fooled when Prince Henry of Prussla was sent to America on a policy of blandishments, and the war emperor was firmly met on all points. From
time to time, as the Kaiser began to rattle his scabbard, Hay realized more and more clearly the danger that menaced clvillzation, but the world, as a whole, took a more complaisant attitude. It is sometimes urged that had the alarming view greater military preparations made, the fnal PanGerman blow might have been averted. From
what has come to light of the malevolent characwhat has come to light of the malevolent characcalculating deviltry with which their plans have been executed, they would probably have re-
doubled their preparations, and the delayed blow doubled their preparations, and the delayed blow
would have only been the more savage when would have only been the more savage when it
came. Germany having played false to every came. Germany having played false to every
instinct
of humanity and every international obligation-stands a convicted outlaw before the bar of humanity, and the very unpreparedBritain and others, is their vindication to-day and will he in history. It was not wi'hin the ken even of John Hay to foresee the tragedy of Belgium and Servia, Armenia and Poland, for
which from Germany comes no sign of shame or which from Germany comes no sign of shame or
remorse, no suggestion of compassion or restituremorse, no suggestion of compassion or restitu
tion. What can the Ford pilgrims hope from such a power? The most colossal national robber and assassin in all history, Kaiserism, with the blood upon lits hands and
the stolen territories under foot would like to b left in guilty possession by an early peace, but her crimes cry out for punishment, and her con-
duct has whetted the sword of justice without duct has whetted the sword of justice withou to a reign of anarchy and the laws of the jungle where wild beasts prey upon each other until the most ruthless survive.
The farmer who has a hired man not nhysical-
ly fit for the frent will be about the only one ly fit for the frcnt. will be about the only one
to have help next harvest. There is an even more urgent bustiness on at the front than
harvesting harvesting, and yet our farms must be worked, hard work ahead abundantly. There is always credit for the way he overcomes obstacles.

The practical knowledge of stock-feeding $1 s$ far more valuable than that built up reading the another has done often helos a feedor to over come some of the obstacles standing between
( FOUNDED 186 a the efficiency of is applied. Plan cation with neighrse, plan for betd hisher returns. Success to all!

Terman ConAmerican point of of John Hay,', one intage of a liberal to probably the hham Lincoln, dur dur orth then the Presiefor a peace theat
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But Lincoln wat to be gwerved wy
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JANUARY 6, 1916

## Nature's Diary.

A. B. Klugh, M.A.

In our consideration of the plant environment
e come now to the soil factors. Water in the we come now to the soil factors. Water in the
nil is the most important factor of all. Water sary for the existence of the protoplasm, which is the vital part of the plant cells, it forms the lood (the water from the soil and the carbon dioxide from the atr heing formed into carbon all absorption of nutrient salts from the soil, all
transference of food-material in the plant, takes Plansterence of food-material in the plant, takes
platy by the agency of water, it gives turgidity and consequent rigidity to plants. All of water. If a plant has not access to sufficient water the stomata close, and both the ta' ing in actor impresses its mark to such degree other actor impresses its mark to such a degree upon
onth the internal and external structures of plants as does the amount of water available.
Water must be present in certain proportions in the soil for the successful growth of each
species.
Either too
much or too little is jurious.
Water in the soll may be divided into two classes, that received from precipitation and held
in the upper layers of the soil, and ground water Ground water is that collected above the 1 mm permeable stratum of soil. A layer of clay usually serves as a substratum of ground water.
Ground water may contain salts in solution, but when it lies deep it is usually pure, because $1 t$ The level of the ground water and fluctuations in this, according to the season of the year, depend upon the amoant of precipitation and the evapora-
tion. In many cases the ground water lies too htgh for certain plants, in other cases it is so far below the roots that they cannot use it.
Thus the level of the ground water has a great influence upon the character of the vegetation It has been found that where this level is at prevail, where it is at six inches below the surTace sedges and some grasses occur, where it is
twelve inches arasses predommate, twelve $\begin{gathered}\text { inches } \\ \text { fifteen } \\ \text { Inchasses } \\ \text { cereals }\end{gathered}$ predomrnate, where at
thrive in warm summers, where at from eighteen to $t$ wenty-four inches cereals do well in molst or cool summers, and
where it is at from thirty to forty inches deep eereals do not thrive and only plants adapted to In the layer of soll lying
taple the amount of water is influenced wy the facillty of percotation of the soll, its power of raising water, its water-capacity, the amount of
precipitations, and the influx of surface water. The facility of percolation of soil depends mainly on the size of the particles of the soil. Very fine-grained soit, espectally clay and certain
humus soils, are almost impermeable to water Palling upon them in the form of rain or snow coarser-grained and looser the soil the more tree ty it is penetrated by precipitations. Water penetrates most readily into sand, less, readily in-
to humus, and least of all into clay. The ower of the soil to raise water from the
deeper layers depends also mainly upon the size of the particles. Sand raises water very rapdily, clay raises it slowly, and humus fairly rapidily,
But the height to which it is raised in different But the height to which it is raised in different
soils is in inverse ratio to the rapidity of its soils is in inverss ratio to the rapidity of its
rise, being least in sand, greater in humus and
greatest in clay. By the water-capacity of a soill we mean its
power to take up and retain liquid, so that none of it sinks into the deeper layers. It deof the soil, and varies with the capillary power of the soil and with the nature of the particles. The water capacity is greater, the more numer-
nus and narrow are the spaces in the soil and the more uniform their size. Water-capacity is
lenst. in sand, greater in clay and greatest in humus. Some kinde of sofl da: splay so strcng an adhesion to water that when this is added the little spaces between their solid components are
widened and thus their volume is increased that widened and thus their volume is increased, that
fa. they :swelt; while on the other hand if de prived of some of their water they shrin夕s. When wet they are soft and pliable, when dry they are
hard and brittle. The phystcal characteristics of hail are of very grent importance to plant-life, be-

 The chomient
The chemical eomposition of soils has a twoare present in excess thev may prevent any plants except mma fow, specially adapted species, from
living in that goil.
Secondly, upon the chemical composition of the soil depends the presence or for p example of this first carmed is nutrien in the plants
which grow on the sea-shore, most species being

## THE FARMER'S ADVOCATE.

eliminated by excess of Sodium chloride (com- under the above conditions, the examiner is safe, mon salt), and only those specially adapted, in most cases, in declding, that he is not lame.
as we shall see later, being able to exist. In
If the gait be such that the examiner is not regard to the second case the influence of nutriCive salts on plant distribution has in the past
been greatly
over estimated. been greatly over estimated. Later work has
shown that the nutritive salte indispensable to plants occur in nearly all soils, with the exception of pure quartz sand, , sin quantities so con-
siderable that in this rcanect the siderable that in this respect there is no obstacle
to prevent any plant growing almost obswhe to prevent any plant growing almost anywhere
on earth. The main point is the availabilility of these salts and not their mere presence.

## THE HORSE.

## Lameness in Horses-IV.

 In examining a horse for the detection of inarian who is examining for a prospective purchaser must be very careful, especially where any as some dealers. have studied the matter closely and are up to all manner of tricks to hide lameness in a horse whore it is not well marked. Some forms of laneness disagpearquickly so soon as the quickly so soon as the horse qis put in motion,
while others do not show plainy until he has been smartly exercised. In order to, as far as possfble, guard acainst deception, it is well to go
to the for a few hours and ask him to stand quet y for a few hours and ask him to stand over, an
the stall, at the same time watching the hind lers closely to observe whether he steps freely and places equal weight upon each foot. Then the groom should put a light bridle with a snaffe
bit on the horse and lead him out quletly with free head. There must be no holding up the


Adbolton Kingmaker
head with a tight rein to prevent "nodding." He should hold the rein with his hand about eighteen rather slack. If heoth, and allow it to nang much more rein than this a spir1ted or a vicious horse may turn and be selected, A stretch of hard, level road should mediately arter being taken out, for the reason
that $a$ aplight walked some distances. Some dealers will knock a horse about in the stall or exclle him प1 some way before leading him out in order to remove such lameness. Any actions of this kind on the part
of the owner or groom should be looked upon as suspicious, if not considered of sufficient portance to stay all negotiations. The examise
watche watches the horse walking out of the stable, If the animal is spirited or frick he walks sound a little fresh, he should be petted and quieted and allowed to stand for a few minutes after
reaching the street or road, and then lead reaching the street or road, and then lead
straight away from the examiner at a slow, easy jog, of course, with a rree head. Arter having
gone about 50 to 75 vards he should be turned slowly and jogged straight beck towards the examiner, it may be necessary to do this re peateaty, the examiner watching closely when the
horse is turning, in order to ohserve whether he shows any peculiarity as symptoms of string halt. Why a horre, not laboring under exccite
ment or nervousness, walks sound and iogs sound

If the gait be such that the examiner is not
quite abbe to decide whether or not he is golng
lame, in it is safer to mive lameng. lame, "it is safer to give lameness "the benefit of
the doubt" and decide that he is not sound. The horse may have shown 'bride lameness' on may, though perfectly sound, have a pecullarlty of gait
that leads to that leads to the suspicion that ho is lame, but such cases are rarely met with, and animal Hence when any well-grounded suspicion exists, it is wise to take no chances. However, if the ea aminer cannot decide in a few triale whether or
not lameness exists, and he wishes to make not lameness, it is better to put the horse luack
further tests, further tests, it is bettor to put the horse
into the stable and allow him to stand for afow hours, as exercise in most cases has a tendency to lessen, and in some cases entirely remove the lameness. After har 4ng stood at ease for some
time, he mey again' be taken out, and, If the action time, ho mey agair be taken out, cases of suspected lameness, especially in front,
it is good practice to put a it is good practice to put a
back and have him tho slowly on hard road back and have him jog slowly on the hard road
with a loose rein as the welght upon the back may cause a manifestation of lameness that without it is not quite evident. In most cases, how
ever ever, this lis not necessary, and it the animal be a
spirited one the act may defeat its own object. The spirited one the act, may defeat its own obbect. The lameness, or diagnose its character or cause, He ${ }^{1 \mathrm{~s}}$ shimicly endeavoring to satisfy himself as to whether or not it exists, and if it be present he
takes no troutle to ascertain its cevee or nature takes no trouthe to ascertain 1ts cevee or nature
He simply condemns the horse as lame. In most cases where the examiners are unable to docide promptly whether or not lameness exidts, it is pretty safe to decide that the animal is not "going sound,
eness is mantested only
atter sharp work, and it is necesarpy to golve the the
animal a lew miles at a animal a fow miles at a and thet, the him in in
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bedly-tormed hocks, splitits
near the bneo, or so me near he snes, or
suspoccous ationation of
structure in any part of the 1 lim m , on pa cases
or
where e there is tpointing The gait alone te some-
times sufficient to determine the seat of lameness, and in some cases it is the
only guide; but
cood rule, and one that good rule, and one that,
should never be neglected,
to examine the whole limb
 rest. By the atiter
method we diccorn lame nees by positive anid negar-
ulve symptoins. ample is there be hoat,
pain, or swelling in any
part' of the limes, discoverpart of the limc, discovier-
abte by the eye or manipu-
the posilitive that the cause is the conurary, there be neither pain, heat nor swelling in the limb, nothing de
tectable in the supercicial parts of the foot to
account for the it is int ior the lameness, we must concluae chat the limp, thickly covered by healthy tissue, and we must arrive at conclusions by negative symptoms, assisted by pecullarities of action.
Ligmeness may be caused by a strain of a diseased bone or cartilage; nerve or other tumors; plugging of artiers; accidents, as pricks in
shoeing, treads, ulcers, rheumatism, etc.

## Skim Milk for Colts.

To those who may be weaning a late colt and desire to give him a good chance, the following Farmer's Advocate and Home Journal," Winnipe3, Man., may prove interesting.
farm every year for the last 20 , years, and this farm every year for the last 20 yearr, and this
 when we take the colt away from the mother, it gets one-third of a pafl of warm, separated mite
twice a day, and in a few days we increase this to a good half pailful, which we continue to feod for a good aix months. We also feed it one quart of oatto with
an handful or two of bran in $4 t$, which it has al-
ready learned to eat feeding with its mother. We China, and her mother was pure-bred Yorishire. have on the farm to the colts, and through the winter we throw into their boxes a handiful of white carrots every day, and keep a lump of rock
salt where they can get it at will. salt where they can get it at will. halter break our colts by tying tham up in their box stalls for a few hours overy day, but let them free at night.
We keep two coits in a box stall, but let them out every day (unless it would be an extremely cold storym one) to feed and play around a big sraw
pile which we have in a sheltered place for the purpose. I would like to say here that I find nothing to tale the place of the aforementioned
 right ahead atter weaning, an oeusse, the, oats
when spring grass comes, of
may be increased as the colt grows older. We may be increased as the colt grows older. We
alwayis keep our colts. well bodded 'with wheat always keep our colts well bedded with wheat
straw, and only clean out their boxes twice a straw?

## LIVE STOCK.

## Feeding Hogs for Profit

Editor "The Farmer's Advocate": offered some criticism of the hog-feeding competition carried on in this county last summer. I was the winner of the trip, and the feeder of the bunch of hogs that arous d so much interest in the whler of the the pule whow my duty to reply and let the public know what
consider very mportant points in feeding hogs.
consider very mportant points in feeding hogs.
When I entered this competition I made up my mind that I would not spare any tims, as far as looking atter the pirs was concernod. I made fod and looked atter, as I do not consider the amount oo feed everything. The type of hog,
cleaniness of surroundings,
thrittiness
before cleanliness of surroundings, thriftiness before weaning, and the method of feeding, al are con-
sidered before the kind and amount of feed consumed.
The hogs which I fed were from a Ghester
White boar, while their mother was part Poland

China, and her mother was pure-bred Yor:shire
I prefer the Chester White breed. You, cannot get a pig that is contnually on the move to
put on as many pounds, according to feed consut on as many pounds, accorang to reed consumed, as ane that will remain quiet and graze
until it has plenty, and then go and lie down. The Chester Whlte is the quietest and best graz ing pig we have, and I considered the cheapess
feed I fed was the pasture that they got. Howfeed I fed was the pasture that they got. How-
ever, a poor Chester White is no better than poor pig oo any other breed, and there is a good deal in selecting from a litter the pigs that will be the best feeders. Personally, I like a long deep pig, broad between the eyes, with a short
head. $I_{\text {I }}$ tike them well filled behind the shoulder with a deep, thick heart. If you get a good with a deep, thick hieart. Is you get a con-
heart girth you will always get astron con-
stitution $\begin{aligned} & \text { also }\end{aligned}$ like a pig to be well-muscled over have all pig pen." Now, this must not be the case when
 the place of the hog, and if you are fed right up
to the mark and you are filthy you certainily will to the mark and you are filthy you cartainiy wil
not feel much like eating, I don't care how good
 much, and then they will complailn that their pigs
are not doing as well as they should. I kopt are not doing as well as they should. my pen as clean as it could be kept. I never let
the litter remain in it more than two or three days, and each time I cleaned it I covered the floor with dry lime. This kept it dry, and the
pen always had a sweet, healthful odor. I would pen always had a sweet. healthful odor. I would
then put in plenty of clean. dry straw, so that then put in plenty of clean. dry straw, so that
the hogs always had a good bed to lie in and mere never dirty. I toos great care to keep the trough clean and disinfected. and in this way my
hogs never missed a meal. hog aver missed a meal mined before it is weaned. and $I$ must say that if the Middlesex farmer owns a sow that will not ralse pigs up to six weeks weighlng more
than 25 fbs ." he had better cet rid of her before than 25 ths... he had better get rid of her before
he goes into the hox-feeding competition. I llke to feed the sow so she wilh nourish the pigs well, and I like tos ee the piss in the trough themselves when they are two and a half to three weeks old.
I am sure if the sow is well fed on bran, shorts, I am sure if the sow is well fed on bran, shorts,
chop and skim-milk or whev. and the pics eat anything themselves. there should pot be any diffulty in getting piys from forty to sixty Irs.
with worms. However, a little charcoal fed in
their feed will keep the stomach free from these pests. por the new way of foeding comes next. feed what they will clean up nicely in half an hour or so. To my mind by feeding three times a day you nearly lose the noon lis locality who experimented in feeding hogs twice vs. th.ee times diaily, and proved that the plgs made as good gains with less feed fed suak my feed one meal ahead. Now. ways soak my feed one the Middlesex farmer to tell how $1 \frac{1}{1}$ los. of grain would soas up 11-3
bs. of whey, but that is easy. lis. of whey, but that is eessy. I put in plenty poured this feed into the trough I would take a couple of handfuls of ground charcoal and throw It qn on top of the feed. This kept the hogs healthy and gave them a good appetite. I took great care not to get the micos tired of any one
kind of feed, and to do this I kept changing from one kind to another, and in this way they
nover missed one of the 224 feeds which I fed never missed one of the 224 feds which $I$ fed
them. I always kept one trough fllled with good, clean. pure, cold water so that the pigs could chean, pure, cold water so that the pigs
have a fresh drink whenever they deaired.
When the pigs were twelly weeks old and When the pigs were twelve weaks old and weighed about 100 Itos. each, I I let them on pas-
ture. Now, I don't think I ier saw a better ture. Now, I don't think I e er saw a better
bunch of grazers. and it is to the good pasture they had that I attribute the gairs that they made One thing I would advise any farmer, is
to give his pigs good pasture, it is the cheajest. These hogs received 1025 lof feeds, which is about $1 \frac{1}{1}$ ths. per hog per feed, and 1,125 ths. of grain, whith is $1 \%$ trs. per hog per feed, plus what grass they would eat(which was considerable). The four pirs weighed 808 ths. When weighed. At six wee's the four rigs
would weigh at least 200 ths. matinn 8088 ths
 grain. This is no
and good pasture.
and good pasture. To successfullv feed hogs one must make a
very careful study of them, and rive them the very careftul study of them, and olive them the
same care that you give any other anmal on the place. To mv mind pasture añ charcoal were the most proftable feeds which I fed.
Middlesex County.

## Steer Feeding Practice in Vogue this Winter.

The era of the heavy bullock, itted for the
trip across the ocean, is past for a time, at
least, but steer feeding to supply the home mar. least, but steer feeding to supply the home mar
ket and the demand in the Eastern States is still
Aow fourishing. Many professional feeders relate tales of the prosperous days when they could feed on a proposition does not seevin $a$ bad on a at the present time when one cent per pound as a margin is a fairly high average. The mar-.et fluctuates
considerably, and it is not uncommon for the "steer-man" to sell at the seme price that he paid for his cattle six months previous. However, that does not discourage the man who has played the game for a number of years, for he
knows that a fluctuating market, takein advan tage of in the proper time, may result in a fairly good profit. A ster feeder must possess two attributes, skill and nerve. He" must know what and how to huy and how to feed. 'That reyuires
skill and experience, but he must also be able to watch a market gradually weakening when he hay a. load or several loads of finishsd steers that will daily: make a large hole in the bin and mow.
when the hay and grain are almost exhausted. when the hay and grain are almost exhausted.
That is when he must have nerve. On the other hand a load of proper steers, well fed, will return a foir market price for the feed they consume, and in most cases will sell high enough to provide a surplus over and above , actuai co to
which the feeder may consider as recompense for
his labor. Stear-feeding hears no resemblanee 10 his habor. Steer-feeding bears no resemblanee to to
a lyet-rich-quick enterprise, hut on the other hand a get-rich-quick enterprise, hut on the other hand
those engaged in the business are usually
quite those engaged in the business are usually quite
contented, they have a few raoments to spare in
sin summer or winter, and appear to be marketing their fodder and grains in such a way as to
realize good values for them. There is usually an atmosphere of prosperity ahout the home of
the steer feeder; a prosperity which he takes time to enjoy.
This conception of the businpss was 1 impressed
upon the writer by a recent ii it to some of the steer-feedint districts in an endeavor to of thin
from professional freders information as to their methods in the past, and how thev, are feeding
this winter. When all fodders and concentrates are high in irics, greater economv must be trac-
ticed. Methods that ha e carrid some for the should be in tereser-1.eeders to throuth that ha: trying times
stock under existing conditions. A Visit to the home of Thos. Mçillan, in
Huron County, found his stables full of steers

fed for the shambles, part of which will be
finished in the stalls and the remalnder off
grass gisshed in the stalls and the remalnder off
grass They are all being handled looge, for ex-
perience, and the perience, and the scales have infuenced Mr. Mc-
Millan in favor of this practice Millan in faroor of this practice. They were graded into car-1oad lots so that ail in the same run grade them twice to get the desired uniformity: once when they go in, and agalin about one month later. The stables are so arranged that the horss the coarse litter it cont


Edgecote Pirate

## $\qquad$

uscd to bed the cattle, Large doors at bend hroush so the manurp permit a team to be driven the stable and spread on the land. In Mr. Mcof manure by handiling it cannot add to the value much to its handling it, but you can add very
Ihis system of team work and taking the manure at once to the fields is
emphasized yery strongly on tinis Huro farm.
nce in the treatment received by the steers to be finished in the stalls and those to be grassed, Shich dinerence lies principally in the feeding. rations are built up
Stall-finished bullocks are started on 30 tts. of silage daily and about 2 lbs . of chon, with hay ith a day, at night. Sufficient silage is mixe pir three and ground grain once a dar to las lso belng fed, are mixed with the silage and straw on the cement walk during the forenoon, a $n$ this quantity is sufficien for the following no
evening and morning feeds. The grain allowance i very carefully and gradu-
ally increased until siring ally increased until siring,
when the steers will be when the steerg will be
getting 8 or 9 bs. each, getting 8 or 9
considerable ${ }^{9}$ of which shorts, ofl case and co tonseed meal. In order t balance the ration an
feed homegrown grains to the very best advantage the very best arongly ad
Mr. McMillan stront
vocates mill feeds. Pea ground oll cake $h$ s been ound to be the most ac ceptable form in which to
feed that material. Cot tonse zd meal was use
 prices it is
considera le
crobable that
will arain this winter. About
the month of March seas the month of March seas
begning of $t h e s e ~$ this beginning of thes
highly nitrogenous feads in the ration. Two ths. of tonseed meal is the oll cake and 2 Its. of cotfeeds 'when combined with the chop from the stear is usually From 1 ib . to 2 Its . of each per of March. They are not mixed with the silage, straw and chon, presiously men'ioned, but are
sprinkled on them after being put into the mangers. Some of the chop is from mixed
somer grains. Usually a mixture is sown consisting of
1 bushel oats, $\frac{1}{2}$ bushel barley and 1 pecis of goose
wheat per acce
this sowing constitutes a large percentage of th
coarse-grain ration. coarse-grain ration. At first the object is to fll the cattle up on are not strong. In this way their digestive systems get into good order for the winter's work of consuming and assimilating large quantities of grain and fodder, and transmuting it in
to feef. After the first of March two feeds o hay arr given eich day. The silage is decreasod
slightly in the morning and good clover hay slightly in the morning and good clover hay gradually strengthened until 8 or 9 ths. is received
by each bullock. This change is not effected in a hurry. The alm is never to feed less during one week than they were getting on the prevtions week. A decrease in the amounts being fed is a
bad omen. No feeder cares to cut down an allowance.
To some stear feeders, 8 lbs . of grain will appear
small, yet in the spring of 1915 Mr. McMillan turned over 106 steers, and those finished in. the stalls showed an average 'gain of 306 tbs. Eight
pounds of grain was the maximum' amount gi.en pounds of grain This pioneer of the steer feeding game also stated that many men who were extensive feeders years ago are now doing nothing and lost out. Meagre feeding was not advis:d. but the fact was emphasized that the man in charge must watch both ends of his cattle and be able to discern anything wrong. Often the digested food is being passed. The man who does not know and study his cattle seldom makes a success of steer feeding.
Steers to we finished on grass do not receive such liberal treatment during the winter months. but they never recelve more than 4 ths. of gratn, they receive 3 ths. of grain daily on the average, and last year only received 2 ths. Oil cake and cottonseed meal were again recommended very rich in carbohydrates and these meals rich in protein; together they make a fairly-well-balanced ration. It has not been the custom on this farm
during recent years to feed grain to the steers during recent years to feed grain to the steers
on grass, but it was practised in former years on grass, but it was practised in former years
with excellent results. Labor has been the infuencing factor, Mr. McMillan approves of the idea, but in his case says that as a matter of are on grass. Four pounds of grain on grass
are verage grass 3 tos. of gain should be put on each day.
When the cattle are put into the runs in the all they are sprinkled with a mixture of 1 part of vermin of all kinds. They are salted daily the amount of which is regulated by the condi ion of the manure. Salt has a tendency to be axative in its effects, and an excess of this ma-
terlal would manifest itself in the excrement Drafts are avoided, but every effort is put forth Do keep the stables cool. So long as water is the better for a low temperature.
Regarding the financial phases of steer feedin Mr. McMillan is not so pessimistic as are man feeders of the present era. Accordlng to his rooks, which record all his farming transaction
in detaill, $\$ 25.00$ per steer will cover interest on investment and cost of feeding. He feeds only the good kinds, and consequently can manage to handle each bullock at a fair margin.
TN A MIDDLESEX STABLE

A Milddlesex farmer, J. P. Beattie, this winte is feeding 33 cattle, which averaged some week
go just 1,080 tbs. each. Mr. Beattie is not an amateur at this business, for h1s boyhood days were spent in cutting corn stalise and oat sheaves and carnying roots to as good steers as crossed the Atlantic in the days of the heavy bullock Heavy, well-finished steers have been his life-lon
specialty, and he still stays with the buisiness. A recent risit to his stable found the cattle with an abundance of straw before them, but from their appearance the writer judged they received plenty
of grain on the side. Mr. Beattila cons:dərs that it does not pay to mix the fodder for steers When the cattle first go in they are given almos a bushel of silage each per day, 1 quart of chop, 1 feed, of chaver hiv, anh two feeds The cho is 1-3 wheat. 1-3 oats, and 1-3 barley. Sprouted wheat is belng fed this winter; not because it is sprouted, but because it is the practice to feed
wheat. "When wheat sells for less than $\$ 1.00$ per bushel." said.Mr. Beattie, "it pays better to feed it than sell it." Wheat has been fed in th past on this farm, and the results have been
highly satisfactorv. The silage is put into the highly satisfactory. The silage is put into the
mangers and the chop placed on to?. After this 1s cleaned up. straw or hay is fed, as the case
may be. A tahlespoonful of salit is also given at each morning feed form are somewhat manner of feeding on this the steers are given their silage and choo: after the steers are given their silage and choo: ater
this they are given a feed of straw. The noon

THE FARMER'S ADVOCATE
feed is a duplicate of the morning rations, except that clover hay is fed in place of the straw.
The evening allowance is the same as that fed in the morning. The steers are fed in this manner or one month, but during the next two month he quantity of chop is doubled, and 2 feeds of ay, instead of one. are given. The hay is fed
morning and night. From this on the chop is gradually increased until 10 or 12 10s. per day is consumed. After the first of March hay is fed
three times each day. As much as 14 ths, of hree times each day. As much as 14 ths. of
chop per day has been fed, but 10 to 1210 si . is conchop per day has been fed, but 10 to 12 los. is con-
sidered sufficient for the class of steers being

H. A. Dolson's Champion Berkshire at
attened this winter, the weights oi which have In the fall, after the steers go into winter quarters, therr tails and bac s are trimmed, and they are sprinkled with sulphur to destroy a.l vermin. They are kept chained and have wate
constantly before then. Behind each row cattle is ample room for a team. Every day except Sunday, the manure is hanled directiy from the stables to the fields where it is sprea from the sleighs or wagon. There is no accumu
lation of manure to be carted and spread during the busy days of spring.


Champion wether of the breed at the Gueli h Winter Fair, 1915. Exhlbited by J. Lloyd-Jones, Bures

For 6 months' feeding Mr. Boattio considets gain, but he recalled an linstance where, on a
load he made 304 ibs . of gain per steer in 6 months. FEEDING YEARLING STEEERS. For many years Allan Fried, of Oxford and exhibitors at the Union Stock Yards onto, will remember his product of the year 1911. This winter he is feeding yearlings which went into the stable at about 700 nss , each. When on and 1 pint of oil cake twice a day. Living in a sugar-beet section. he finds it proftable to feed the pulp from the mill, and of this commodity the
steers receive a bushel each per day, Mr. Fried
is usually able to turn this class of sters is usually ${ }^{\text {ablle }}$ to turn this class of steers of
weighing from 1,000 to 1,050 ths claims that, owing to the growth made by year clains, it is possible to produce a a gain of 300
lings, 1 , 1 ith them for less than it can be done with er steers.
the northeastern part of Waterloo County and to the production of sugar beets. The farmers
the in those sections, too, are close to a supply of oil cake meal, and we find them makiny a liberal use of sugar-beet pulp and oil cake. Last winter
immense quantities of cottonseed meal, alon $\%$ with silage, were fed to fattening steers, but owing to
an didvance in price fil cate will probabty the an idvance in priee eil ekere will probably to the
nitrogenous-rich concentrate most largely used nitrogenous-rich concentrate most
this season.
WAYS IN WATERLOO.

## In Waterloo County, as has alieady been stated, beet pulp and oil cake are commonly stated, beet pulp and oil cake are commonly used. Gottonseed meal also is purchased for the express purpose of balancing the ration, or, In other words, of rendering the Waterloo has been especially lin connewtion with feeding siears, speaks highly of the value of a little cottonseed, or oil cake incorporated with ordinary chop. From the first of Nach brought along on, silage, cut straw, chaff and chop, Mr. Brown advises hay three times a day also 21 gallons of chop, some of which should be one or both of the nitrogenous-rich concentrates A nelghtion of the feeder just mentioned has this rast fall demonstrated that silage and chop alone will produce, good galns. Eighty-six steers were put into the runs and given silage only, as roughage, with no hay or straw, except the lit- ter that, was given them from, time to time. Chop made, up of $\frac{1}{}$ oats and $\frac{1}{2}$ rye was fed as a grain ration. They were allowed prac.\{cally all grain silage they would consume, and in two month the used approximately 1,000 bushele of gra'n. Thei manure. Was quite firm, and they aoparently sulf fered little from the lack of dry fodder. Satis- factory gains were made unider these mothods of factory gains were made under thase m thods of feeding, which are, to say the last, unorthodox. FEEDING LOOSE OR OHATNED It is a moot question whether it is bester to perienced feeders are just about evectly divided re- garding their preferences for the stalls on loose garaing their preferences for the stalls or loose runs. All will edmit that labor is saved by run- ning the sters loose, and labor nowadys is a very limportant factor. In small lots, however, very limportant factor. In small lots, however, it might not be convenient to grade the cattle properly in order that they mizht run loose, in properly in order that they mizht run loose, in which case tying them would ensure better gains on the smaller and less ambitious ones. <br> FARM.

## Farm Seed Supplies

Field and garden seed supplies are practically assured for the 1916 planting. Thore is a scarcity ancrican-grown crops, incluaing beans, omions amongst the imported stocks, Swede turnips are rather short arrots and ach and and some vartetiss of arts. Red clover and alfaila are unusually 75 per cent. Other ifinds that might be used as clover substitute, than the supply would atherwise higher in price stablished. CanedMan seed housge with icontracte made itwo or three years in advance will have no serious trouble this season in taking care of their
regular trade. Seed merchants, who depend from year to year on the surplus stncks that may be
offered, may have less assyrance as to the offered, may have
character of their SJCED BRANCH, OTTAWA:


## A Province on the Peace.

## ©ditor "The Farmer's Advocal

The files of 'The Farmer's Advocate" of twenty or twenty-five years ago contaln a number of very interesting letters on the Peace River country,
written by one of the Lawrences, of Fort Verwritten by one of the Lawrences, of
millon. Though captured by them at the time, millon. Though captured by them at the time, day be living In the southwestern part of the
vast water shed, whose resources gave Mr. vast water shed, whose resources gave Mr.
Lawrence his theme. Even yet, to many Can-
Edians the Peace River country is a sort of adians the Peace River country is a sortic dreamland, quite off the edge of the immigration map. It is «nown better in the Western States, where effective exhibits and active immigration propaganda have brought it promin-
ently before public attention, whetting keen inently before pubich atrenn many hundreds of fine settlers hither across the awful bush trails, which until recently he
means of ingress.
"Until recently"-for the bush trails are practhcally a think of the past. The Edmonton, Dunvegan \&\& British Columbia Railshay,
branch, the Central Canada, will shortiy be delivering Edmonton passengers and freight at
Sinirit River Settlement (fifteen miles south of the historic trading post of Dunvegan) and a Peace River Crossing, now called Peace River while from Spirit River a branch is graded south
nto the famous Grande Prairie District with its into the famous Grande Prairie District with its parties of whom braved the risks and privation of an ox trail five hundred and fifty miles long. Towards this latter district also, is headed th . N. R. Onoway branch, striking northwestward ources of the Lower Athabasca Valley are being capped by thi Alberta and Greet Waterways,
leading out northwestwardly from Edmonton to leading out northwestwardly from Edmonton to
Fort McMurray. Numerous other lines ar chartered or projected through this great North land, but on those specifitd, construction has been actually a accomplished, and on the three McArthu the C. N. R.) construction has;been energetically pushed during the past twelve months. Indeed, of all Canadia, Northern Alberta hasjbeen the one
theatre of active railway construction. Steel is nnually of active raid by the hundreds of miles. And what is the wealth of resources tempting such feverish railway activity? Besides vast measures, asphalt and other minerals, beside
umber in some sections of commercial value in tlmber in some sectlons of commercial value, in
cluding spruce and jackpine logs of diameter up o two feet and over; besides many great wate powers, as in the Peace River Canon, the Chute of the Peace and the fall on Great Slave River,
besides one of the finest chains of navigable water in all Canada, extending with but two in terruptions from Hudson's Hope clear to the Arctic Ocean-besides all this is a bed-rock founda tion of greatness in the forty million acres or Peace, not counting many large areas of grazing inot agricultural land, flanking the trunis of the Mackenzii and its other large tributaries, notably he Athabasca. a a basis and other resources to help out, what ing great
prairie ent country is a park-like expans prising poplar, spruce, willow, jackpfine amarack, in order of prevalence about as menloned. Poplar grows on the best soil and grows or the repeated nres which have prairied areas patches up to blocks many miles wide. In the est sections the greater part of the land is clear, interspersed with bluffs. The soil is a black lepth. The contour is that of a plateau drained y rivers and tributary rivulets of varying width and considerable depth, especially those near the Peace, which latter runs through a narrow unvegan and Peace River Crossing. The scenery along the river and at many other points is
randly vast, commanding vistas to fill the eye nd fire imarination with the sce and futur reatness of the Province on the Peace.
But the climate? Is it hahitable? Is it sul able for the reliable production of a variety of
crops? The harvest of 1915 supplies effective crops? The harvest of 1915 supplies effective the extent of the country involves considerable
variation. From Hudson's Hope to its confluence with the Great Slave, the Peace is approximate y six hundred miles long, running in a north easterly direction away from the region of compensated in some degree by declining altitudes as the course of the river verges toward Arctic
Fort Vermilion, the home of the first onsiderable settlement, is far down the river than that. of newor settlements near the moun-
tains. Grande Prairie, whence this is written s a tract of a million acres or so lving west of
largest tributary of the Peace-north of the Wapiti, extends to the British Columbia boundary on the west, and on the north is divided bit River prairie. There has been considerable settlement here now for seven years, during which
time there has not been a crop failure, though a percentage of the crop has been frosted in some years. This past summer, almost every acre of wheat, oats and barley ripened hard, and yields
have been in some cases phenomenal, running to have been in some cases phenomenal, runnigg and forty-five for fields of both spring and winter wheat. Such yields have been obtained within a four-mile radius of where this is penned, and the
facts are known to the writer. quoting larger figures which I am not in a position to verify, but will add that I had an exper1mental plot of spring wheat whlch yielded at the ner oats 111, and Irish Cobbler potatoes Baver 400 bushels. All garden stuff yielded well and is of superior quality, while timothy, alfalia and even red clover give prom
portant and successful crops
As a stock-raising country its advantages are great. Cattle ranging in summer, on native grass, wild vetch and peavine, in autumn on the stubble fields, and in winter rustling about strawstacks with a very little sheaf oats, attain good
weights and come up in the fall as fat asi grainweights and come up in the fall as fat asi grainearly in December, wintered through his calfhood in an open-front shed, fed on prairie hay, straw, dressed 475 pounds of frst-class beef at barely
18 months of age. Horses range the year round and thrive. Hogs and poultry do well, and sheep doubtless will. The future of this section lies along the line of mixed farming.
during the past two years has been the most en joyable, healthful, and favorable for outdoor subject to cold dips, but for the most part our climate is delightfully tempered by the Chinooks, The class of 'settiers is superb. It is enough to add that, though comprising ouite a percentage of American-born, this district has sent to teers, even for the loyal Province of Alberta, which leads all Canada, I believe, in the recruiting list.

## Grande Prairie, Peace River District, Alberta

## Fifty Dollars Reward!

We have been informed that a young man giving the names G. Aderson and $H$ P. Anderson has been taking subscriptions for "The Farmers Advocate" in the vicin. ity of Fergus in Wellington Co. Ont., at $\$ 1$ per year, claiming to be an agent for this paper. This man is not an authorized agent of this publication and has not turned the sulbscription money into this office. We hereby offer a reward of fifty dollars (\$50) for information leading to his dentification and arrest. The only authorized canvasser we have is T. P. Tayor, now working in Eastern Ontario.

Soil Management from the Standpoint of the Dairy Farmer
A herd of fairly good cows, welghing a total
of 20,000 pounds, w111 produce in a year milk containing approximately 600 pounds nitrozen, 100 pounds of phosphorus, 160 pounds of potassium, and 200 pounds lime. All these chemical substances have been deobtained them from the soil, and this feed has the nitrogen may have come originally from the
While these substances constitute apparently a very insignificant part of the whole volume of is absolutely controlled by the quantity of such substances which the cow is ahle to abstract from control the whole volume of milk within may wide limits, by increasing or reducing the supply quantity of nitrogen and mineral elements glven any important but we can. cause, by feeding these elements and the total volume of milk Therefore, the whole science of milk production consists in the capture and combination, through
the vital machinery of the cow, of these elements together with a few others nose fou tioned, because exnerience has shown that if we sociated with them Farmers are familiar with the importance of
nitrogen in the feed as supplying the element
most conspicuous in the consiruction and repair
of the muscular tissues, but they have given little attention to the importance, not lesse urgent, of those elements which are chiedy concerned in the
upbufiding of the skeleton and nerve tissues, namely, phosphorus and calcium. Fortunately these elements are closely associated with the protein formers in the ordinary leguminous crops, clover and alfalfa, as well as in soybeans and pound an artificial ration which may be to complied with protein and yet be detcl.nt in the mineral elements
The fact is of great significance to the dairyman than the rutritive walance in most perfectly his cows are furnished by the crops which will most economically maintain the nitrozen supply of his soil; but it is important that he should ot overlook the fact that while these crops are ing phosphorus in equal quantity wih the grain crops, and calcium and potasslum in much larger quantity; so that the growing of these crops makes it all the more important that he pay ments. The foliowing table shows approximate ly the number of pounds of nitrogen, phosphorus, potassium, and calclum removed f.om an acre of
land by equivalent crops, including stover and straw :

| Yield per acre | Nitro- Phos- Potas- |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Lbs. | Lbs, | Lbs. | Lbs. |
| Corn .............. 70 bus. | 100 | 12 | 48 | 14 |
| Oats ...... ...... 67 bus. | 60 | 11 | 46 | 13 |
| Wheat ........... 26 bus. | 56 | 8 | 29 |  |
| Timothy hay... 21 $\frac{1}{2}$ tons | 38 | 8 | 60 |  |
| Clover hay ..... $2 \frac{1}{1}$ tons | 95 | 8 | 50 | 63 |
| Alfalfa hay .... 4 tons | 200 | 23 | 135 | 120 |
| Soy beans ...... 25 bus. | 150 | 12 | 50 |  |

Of course, these proportionate yields will vary he tarms, but draft on the soil of the different crops for the everal elements.
tover, carries ame quantity of nitrogen as an land about the clover hay, but the clover logves the crop cher in nitrogen than it found it, while the corn hosphorus and as much porn withdraws more he clover takes off four times as much calcium s corn and ten times as much as wheat; while ifalfa withdraws nearly three times as much phosphorus and potassium and twice as much me as clover. It is true that clover, and espe apperience confirms more deeply than corn, but if clover is to be grown with continued success must be abundantly supplied with all the mineral ellements, espectally calcium, and it can lfalfa will show that larger acquaintance with good with that crop.
It may be laid down as a sure proposition, therefore, that the dairy farmer who desines to that his crops are flow of milk must look to supply of those mineral elements which are the coundation of milk. If he be the fortunat owner of land originally abundantly supplied with easier; but, however abundorm, his task will be they are so locked up in insoluble may be, it hat his crops cannot obtain them, they will do
 time is not far distant whent supply may be, the stitution must be commencen some form of re continue to yield a satisfactory return. For the plant food which he finds stored in his soil has during which the there through many centurles turned to the land; but when the farmer been re and removes this growth and returns nothing only a question of time when the accumulate號 and constantly increasing discount. at a heavy
Analyses of different parts of the cereal plants
show that from two-thirds to three-fourths of the phosphorus and nitrogen are contained in th grain, while still larger proportions of the potas leaves. The grain farmer, tharefore stems and malntain fertility by growing occasional leaumin ous crops and returning them to the soil, to gether with the residues from his grain crops, and
purchasing only phosphorus with a very potassium to replace the relatively small quantities of these elements carried away in the grass But the dairyman removes everything from manure he will have restored a larme rart of the fertilizing elements contained in bis crops, but unless he makes liberal use or such purchase
feeds
phorus and lime carried away by his milk. But orevent great waste of its constituents
For noarly twenty Jears the Ohio Experiment Station has studied this question, both in the chemical laboratory and in the field, and the relaboratory in showing that in three or four months exposure to the weather manure may lose a very large part. of ter fertilling value.
Here is what the laboratory says, as the age of numerous analyses Lbs. per ton manure
Nitro- Phos- Potas-

Composition of fresh stable bon phorus sium manure.,...... ........ ......... months exposure in open | yard. |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | More than one-third of the nitrogen and two-

thirds of the potassium (which are chiefly found in the liquid excrement, and are cherefore the in the liquid excrement, and are therefore the
most valueble part of the manure, because already in solution) have disappeared.
And here is what the field says in an exper1ment in which corn, wheat, and clover have been
grown in a 3-year rotation for 18 years, each grown in a 3 -year rotation for
crop being grown every season :

|  | Increase per ton of manur |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Corn | Wheat | Hay | Tota |
|  | Balu |  |  |  |
|  | Bus. | Bus. | Lbs. |  |
| Fresh manure...... ...... 8.00 | 1.32 | 177 | $\$ 3.57$ |  |
| Yard manure ..... .... | 2.46 | 1.17 | 109 | $\mathbf{2 . 8 3}$ |

Wheat at 90 conts at half a dollar per bushel The manure has been applied to corn at the rate of 8 tons per acre in a rotation in which
the clover has supplied much of the nitrogen rethe clover has supplied much of the nitrogen re-
quired by succeeding crops, thus reducing somewhat the demand for nitrogen in the manure, and making the loss less apparent than it would be if the manure ha
But leaching in the barnyard is not the only source of loss in the management of manure espectially on the dairy farm; for here the animals which have produced the manure have taken out of their feed the phosphorus and calcum neces
sary to supply the milk with these necessery consary to supply the milk with these necessary con-
stituents. For milk is the natural food of the young animal, and as such it must carry in abun bunce the materials out of which the animal mas build its skeleton. The manure from dairy cows, elements. In these same experiments, therefore, untreated manures have been used alongside of the same quantities and kinds of manure which common acid phosphate and in the raw rock the acid phosphate to made by frst grinding the raw rock to a fine powder. called floats, and then
mixing it with approximately an equal weight of mixing it with approximately an equal weight of
sulphuric acid.
The outcome of this reinforcement is shown The outcome of this reinforcement is shown in the following :

Increase per ton of manure
Corn Wheat Hay
Bus. Bus.
Fresh manure and acid
$\begin{array}{ccccc}\text { phosphate } \ldots . . . . \\ \text { Fresh ma..... } & 4.50 & 1.98 & 818 & \$ 5.34\end{array}$ Fresh manure and
floats ...... ..... ...... 4.01 1.77 278 4.83 $\begin{array}{llllll}\text { Yard manure and acid } & 4.01 & 1.87 & 278 & 4.83 \\ \text { phosphates } & 1.89 & 244 & 4.66\end{array}$ phosphates ...... ..... 4.03 ard manure and Ont .......... ... 3.24 1.52 197 3.81
*After deducting cost of phosphate or floats. In these experiments the manure has been procows, consequently the results of treatment dairy be regarded as conservative, for a fattening animal will require less bone building material than one giving milk, and will consequently leave
more such material in the manure. The work is more such material in the manure. The work is by many years of improvident husbandry, and is consequently in urgent need of all the elements of alike in this experiment, so that it only brings
out the importance of reinforcing the manure for such a soll with phosphorus.
In another experiment, however, lime is being added to part of the land on which yard manure has been used for 22 years in a five-year rotation The liming was not begun until the experiment had been in progress several years. The outcome
for the years during which lime has been used is or the years during which lime has been used is

Average increase per acre
Treatment Corn Oats Wheat Clover Tim-
Yard manure
Bus. Bus. Bus. Lbs. Lbs.
$\begin{array}{llllll}\text { alone } & \text { al........ } & 31.00 & 15.75 & 16.92 & 2,196 \\ \text { a'r manure } & 2,253\end{array}$ $\begin{array}{lllllll}\text { a'r } \\ \text { and lime mure } & 3.0 . . & 37.84 & 17.45 & 19.53 & 3,168 & 3,371\end{array}$

## THE FARMER'S ADVOCATE

The manure has been applied to corn and
wheat at the rate of eight tons per acre on each crop, or sixteen tons for each rotation of five years. The lime has been used first as quick applied as the land was beling prepared for corn half tons of ground limestone per acre or about five dollars per acre for each rotation. Valuing the increase as before, including oats at 40 cents per bushel. the financial outcome has been as fol-

Value of increase Treatment Yard manure alone
Yard manure and lime
$\begin{array}{cc}\text { Per acre for } & \text { Per ton o } \\ \text { one rotation } & \begin{array}{c}\text { manure }\end{array} \\ \$ 59.27 & \$ 8.70\end{array}$
$7.6 .19 \quad 4.45$
In computing the value of increase on limed land the cost of liming is first deducted. The lime is never mixed with the manure, but is ap-
plied to the surface and harrowed in after plowing under the manure.
Where a soll is deficient in lime it is usually, ut not invariably, also deficient in phosphorus: position of limestone may be fairly well supplied with lime and yet be lacking in phosphorus.
These experiments demonstrate the importance of ascertaining whether lime or phosphorus, one correcting any such deficiency that may be found to exist by the use of the appropriate materfals; for until this is done manure cannot le used with economy. Whether lime is needed is very easily tions and material for maling which will no doubt be furnished by any experiment station. The requirement for phosphorus can best lwe deof corn or drill rows of the small a few, rows carefully weighing the produce in comparison with an equal area of unfertilized land, the phosphate hill or drill between the rows, not merely in the Lime and phosphorus are the only fertilizing or soil corrective materials which the dairy farmer should find fit necessary to purchase, except that for muck soils the purchase of potassium quire nitrogen and potassium , well lime re phosphorus, if maximum production is to be mainwhich but the adjustment of his cropping system which will give him the protein necessary for cows, and the careful saving and judicious reinforcement of the manure produced will make him independent of fertilizer nitrogen, and to a large
extent of fertilizer potassium.-Charles extent of fertilizer potassium.-Charles E. Thorne, n Hoards Dairyman

A Middlesex county subscriber to "The Farmer's Advocate" called at this office a few days
ago, and in conversation gave substantial credit to alfalfa as. a feed crop and a heavy producer on his land. He has three and one-half, acres this year which he cut twice. First on June 2or the again some time in August. The yield was saved in tings wae $16 \frac{1}{2}$ tons, all of which eaten with a relish by his cattle and horses.

## THE DAIRY.

## Believes in Exercise in the Open.

 Dditor "The Farmer's Advocate" Responding to your request for the opinionsof farmers on the winter treatment of cattle, viz.,
whether they should be allowed to exercise daily whether they should be allowed to exercise, daily a Dairying Diploma awarded by Prof. Dean, and the consciousness of having froquently fed and milked my herd of Jerseys, from which I have
made thousands of pounds of butter, I feel competent to say something by way of starting the liscussion which means so much to the cows. When I read your first request for someone to open the subject, it seemed so olvious tha far more than people do, that I did not assume the responsibility of answering.
The unnatural confinement in dark, crowded, contaminated stables is one of the reasons cow are so short-11ved. I contend their period of usefulness would be prolonged several years if
they got common-sense treatment. Were the
wild cattle housed Wild cattle housed and pampered during winter?
Who can furnish statistics as to their longevity? Who can furnish statistics as to theirg longevity? proved methods of treatment our domestic cow is far superior in size and milk production to its encestors, but this is not an admission that our Why will, not the hygiene taught to childre not think the tuberculin test would fall into dis use from lack of necessity for it, if cattle had the
right amount of fresh air and exercise, granted proper food rations? That fable of "Ki ling the goose that laid the golden egg," is an gnored
losson by many present-day people who are look-
ing for big results now. regardless of the vitimate ing for big results now, regardless of the vilimate
effects on the herd. Now, the farmers who shut
up their stock and overceed them (unlecs it up their stock and over-leed them (unless it lee
fat cattle almost ready for slaughter), are in the ninority; it is the man in town who has to
keep his cow shut up and writes of her recordbreaking performances, and then at her record-
yleld to the. care and rations, claiming she her yleld to the care and rations, claiming she doee
not have to run the fat off her, nor pick her living off the manure pile. Some few, deduct from My oninion is, that any day, that is winter.
a chifld to take outdoor exercise, the cow should a chifld to take outdoor exercise, the cow should
have her freedom in a good-sized yard. She is
lucky to have a wind-break from the north and
west. I can't quote statistics to prove it, but if I could can't quote statistics to prove it, but $\frac{\text { any value. }}{\text { We have }}$
one in twenty yedre, with the nor have we losi toothless old cows we bought on speculation, two of which chooked to death on grass, which has
nothing to do with this topio, but I find it neces sary to keep to facts always.
Naturally the circulaty
Naturally the circulation will be impaired if the animal be too elosely confined, and do you a penned-up cow whose blood must be starnant as from a vigorous animal that enjoys her free
dom? Leeve to to the intelligent cow to decide.
She'll go to the stable door in a storm, and

Ayrshires in Scotland.

she'll make it plain to an observant person that she wants to get out on the fine days. To be sure, there are foolish cows as well as foolish
people, but not in so large a proportion I somepeople, bu
times thin
times think.
Prince Edw

## Cutting, Harvesting and Storing Ice.

The season is again at hand when the farmer
uld be laying plans for the harvest of the ice crop. should be laying plans for the harvest of the ice crop.
Ice is year by year becoming more and more important Ice is year by year becoming more and more important dairy farming. As time goes on the demand for a
higher quality of dairy products makes it imperative higher quality of dairy products makes it imperative
that these products be kept at a low temperature during that these products be kept at a low temperature during
the hot weather of summer. The only way the farmer can keep his milk, cream, or butter at the required low
temperature is by providing a supply of ice, large enough temperature is by providing a supply of ice, large enough to last him throughout the season. Many have been water from cold springs or by pumping water into a vat so arranged that the milk cans are standing in cold water
all the time, but it is generally conceded that the most all the time, but it is generally conceded that the most
satisfactory plan, and the one involving least labor and satisfactory plan, and the one involving least labor and
insuring the best quality of products, is to. cool all insuring the best quaity of products, is to cool all
dairy products with ice. Besides the dairy products,
there are many articles of diet and many luxuries of there are many articles of diet and many luxuries of the summer season which are dependent upon ice for
their keeping qualities ánd exquisite flavors. No.farmer should fail to consider ice as one of the harvests which
should be attended to in season, and the season for should be attended t
this year is now here.

ICE STORAGE.
The first requisite is a place to store the ice. There are ice houses elaborate, and ice houses of a cheap, yet eficient, nature. For the average farmer, who has not not advise going to great expense in doing, so. Some years ago there was recommended in these columns a
cheap house, which we believe has proved very efficient cheap house, which we believe has proved very efficient
on several farms upon which it has been tried. With a house of this kind it is necessary that it be placed preferably at the north end of a larger building where it
will be protected from the direct rays of the summer will be protected from the direct rays of the summer sun; in fact, any ice house is the better of a north ex
posure. The house of which we speak may be conposure. The house of which we speak may be con-
structed by planting cedar posts firmly in the ground so as to form a square of say 10 feet, three posts on each side of the square and extending up 10 feet from the The inside of the posts is liped up with rough inch lumber. A roof is put on and the building is capable of storing one hundred blocks. About twelve inches of
sawdust is put on a dry bottom, and space is left to sawdust is put on a dry bottom, and space is left to of it. Some do not nail the lumber on the inside of the posts, but put it on the outside up and down, using any
rough lumber that may be about the place, and leave rough lumber that may be about the place, and leave
plenty of space around the ice for the sawdust, which should not be less than a foot, and preferably more Sawdust should be firmly packed, and an open space at the top should be allowed for free circulation of air
above the sawdust. This makes a cheap house and one above the sawdust. This makes a cheap house and on
which any farmer can afford to build, and, of course the size need not be limited to 10 feet square, but may be large enough to ensure plenty of ice. For a dairy farm, never less than one ton of ice per cow should be
stored, and preferably from $11 / 2$ to 2 tons. One ton per stored, and preferably fr
cow is better than none.
USE OLD SAWDUST.

In storing the ice it is well to use old sawdust packed solidly around the ice it has a tendency to hea and thus melt some of the ice around the edges. Thi
difficulty was experienced one year at Weldwood. Bu difficulty was experienced one year at Weldwood. Bu
do not put off the storing of ice because no old sawdust do not put off the storing of ice because no old sawdust edges than to have no ice at all. "Where green sawdust
is used it might be better not to put in the material so great thickness as where the dry is available, because so great thickness as where the dry is available, because
the thicker the covering of sawdust the greater will be the heat in it. In expensive ice houses sawdust is not used very extensively, the insulation being obtained
through the use of building material, but this would through the use of building material, but this would be
too expensive for the average farmer.
Where ice is stored in makeshift buildings, such a corner of a wood-shed or in a drive shed or some such convenient place, the waste is very large, and we would Iavor the building of a cheap, permanent ice-house
Ice may be kept by piling in a solid pile, and, if the weather is very cold, throwing a little water ond the block
freezing them all together into a solid form. Such freezing them all together into a solid form. Such a
stack, as it is sometimes called, is generally placed on stack, as it is sometimes called, is generally placed on
a bottom of old rails covered with straw, and the whole is generally covered with straw and some temporary wooden protection put over it, but in the best of storing
of this kind the waste will be nearly one-third.

BETTER BUILDIN For those desiring a better building one described
in Bulletin 207, of the Ontario Department of Acrich in Bulletin 207, of the Ontario Department of Agribul-
ture, by R. R. Gratam, B.A., B.S.A., should be satis-
factory It is 12 feet square factory. It is 12 feet square outside, and 11 feet hish
to the plate. The sills are double 2 by 4 , on which
are erected $2 \times 4$ studding, 24 inch to the plate. The sills are double 2 by 4 's, on which
are erected $2 \times 4$ studding, 24 inch centres. These are
capped with a double plate of two $2 \times 4$ 's, on which rest
$2 \times 6$ foists. 24 inch centres. The stleds are boarded up
outside with drop sidine. There is no inside boarding,


An Ice Derrick with Saw and Square.
the studs. The roof is constructed of $2 \times 4$ rafters, 16 -inch centres, boarded and covered with shingles. In each gable is a stat-ventilator for the purpose of allowing free circulation of air. The ice door should be built in two or more sections, hinged to open outward. keep the sawdust or other filling away from the door. This house is known as Cooper's house, and the actual cost, if the farmer does most of the work, himself,
should not be more than $\$ 70$ to $\$ 75$. There are many different $\$ 75$.
some prefer building a combination ice house and milk stand, others desire a more complete cold storage with other to be used as a cooling chamber. Such and the as the latter are more expensive and are not found in general use on the farms. They are more suitable for dairies and large producers of dairy products. We are If the ground is not dry under the ice it should be made. so by draining; but this can scarcely be done at this season of the year, more than to use porous material, such as cinders, stone and plenty of sawdust under the
ice. Leave no air space under the ice air space on top, between the roof and the ice. In case sawdust is not procurable, use cut straw or hay, but it will need twice the quantity, that is twice the thickness, Where a cooling proper insulation.
ice storage, a room 10 feet by 6 feet is good, and this does not require particular insulation. However, it is and better for being lined inside with matched lumber of concrete with a smooth surface, and tile draina should lead from it
In storing ice the source of supply should be conbut this is not always procurable. In putting the and layers, with building they should be laid in rows nd small' interspac joints broken, and all the chinks The point is to endeavor to reduce to a minimum the
amount of air space between the blocks, but under
consideration should sawdust be used for this purpose.

## CO-OPERATE.

the putting in of the ice crop it is well that many hands make light work of this none too atling, ive job. A number of farmers should plan to harvest ice at the same time, should select their place of cutting rom a pond or stream nearby; should all plan to put in their ice as early in the season as good, clear, thick
blocks are available. Under no consideration should he ice-harvest be put off untillate in the season, for very often an early break- $\mu \mathrm{p}$ or a protracted thaw, followed become deteriorated by four or six inches of a shelly $p$.
means get the ice in early.
CUTTING. For cutting the ice the most common implement
used is an ordinary cross-cut large-toothed saw, with
the handle taken from one end. A correspondent some the handle taken from one end. A correspondent some time ago stated that in cutting ice he used a square made of a piece of six-inch board, with a brace attached
to make it rigid. This, with a 16 -foot 2 -inch plank was to make it rigid. This, with a 16 -foot 2 -inch plank was
used to lay-out and mark the squares of ice. Where ice is put in on a large scale, and many farmers are co-operating, an ice plow is sometimes used, but most of the ice which goes into the farm storage is cut with a saw. Where farmers are handy to a city or town
where ice is being harvested in large quantities by ice companies they may often be able to purchase the ice and cut and load it direct from the water on to their sleighs. Derricks are generally provided where this is practiced. A DERRICK FOR LOADING.
A plan of a derrick, which might be used where with it will be seen an illustration of the saw and square with it will be seen an illustration of the saw and square
used in marking out the ice. In cutting the cakes should be cut as straight up and down as possible This is difficult, as the saw will "run" when coutting. In making the derrick, use two strong, white-oak poles any strong piece of lumber or may be made cut from any strong piece of lumber or may be made by spiking feet long and well braced at the base, as shown in the illustration. The bottom should be smooth in order to 16 feet long or more, with a rope attached to each end and is pivoted on top of the upright with one-quarter to one-third projecting over where the ice tongs are attached. The remaining portion gives plenty of leverage
for lifting the heavy cakes of ice. Two men can twork this derrick, one loading the tongs while the other man pulls up the cakes by the rope at the end of the lever and swings them around to the sleigh in loading. Thi is a cheap derrick, and if properly made will serve to
handle any cake of ice that can be conveniently placed handhe any cake
For unloading at the ice house a block and tackle is very handy to pull the heavy cakes of ice up in to the
building and swing them into position Another type of derrick is shown in tion in this article where several men may be seen work-
ing the apparatus. This is a little more complicated,



## Loading Ice with a Double-leverage Derrick.

but the illustration shows the idea, if any reader would
like to try it he should have no difficulty in making such a derrick It , is necessary before attempting to cut the ice that all snow should be scraped clean from it with a horse, and any. kind of improvised scraper will do this
work very quickly. One of our illustrations shows such preparation for the ice harvest in progress on
Grenadier pond, Toronto, from which some of the Grenadier pond, Toronto, from which some of the
Toronto ice companies get a great deal of their ice. oronto ice companies get a great deal of their ice.
Where ice can be bought, ready cut, and floated to a handy loading place by some of these companies, the farmer generally has a very good chance of getting in
good ice without very much trouble. One illustration good ice without very much trouble. One illustration
depicts a number of farmers' sleighs being loaded with ice which has been cut by a large company and sold
them to be stored in their small ice houses on the farm - Remember, in storing ice, to put in plenty for each cow. It has been estimated that three tons will b sufficient for a house refrigerator and the minor use
made of ice in the farm home. Besides this, allow a least one and one-half tons, if possible, for each mil cow in the herd. Allowing for plenty, of sawdust, if you wish to store twenty tons of ice, the house shoul A double boarding of the house will, of course, insur better insulation. Whether the house provided b cheap or expensive matters not, so long as the insula tion is sufficient, and no one, especially those keeping
dairy cows, can afford to let the winter pass withou storing plenty of ice to be used next summer. An readers who have any suggestions to offer which will help others in harvesting the ice crop are invited to send
their suggestions to us immediately. Harvest the ice therir suggestions to us immediately.
early and be sure to harvest plenty of it.

## Cheese Factories Selling Out

"The recent sale of two important cheese factorie in Middlesex County, to the Canadian end of a large American enterprise engaged in the manufacture and more than local interest in dairy circles. The Harrlyts ville factory has been for years one of the largest chees with it butter making has been carried on. Bacon hog raising has been an important and lucrative end of the business of the patrons in all the adjacent country Many factories through these sections were originall
established with capital supplied by farmers combinin as joint-stock companies, but in course of time, fo various reasons, they gradually came under the ind the properties During the past couple of acquire cheese dairying has been unusually prosperous and to many the disposal of these factories by their owner has been in the nature of a surprise, but no doubt the
terms were attractive and the opportunity considered terms were attractive and the opportunity considere
desirable. The purchasing corporation operates a ver large and well-equipped plant at Belmont, Ont., capable of converting into powder great quantities of milk, or if need be, making butter or shipping cream to point
like Toronto. It is very easy to see that a big con like Toronto. It is very easy to see that a big con
cern like the one in question requires a large and certai supply of milk, and it is understood that the services of the former owners of the two factories purchased are operate these plants as auxiliaries to the central factory operate these plants as auxiliaries to the central factor reduction to other products. Obviously the change wil not be in the interest of swine raising, for whey will
not be available, and how the returns for milk will in course of time affect the patrons remains to be see especially in the summer season, when the milk flow is flush. Powder making requires a high standard grad of milk, and as is now the case with milk generally
dairy farmers find the cost of production increasing and every item is more closely scrutinized than in times and every item is more closely scrutinized than in time
past. Financial obligations in the way of increased
taxation, etc., arising out of the war make it absolutely taxation, etc., arising out of the war make it absolutel
essential that the net returns from the dairy farm b essential that the net returns from the dairy farm be
sustained, or its operation will become unremunerative

The shortage of help is a most vital question with the dairy farmer, and the keeping of fewer cows is therefore a condition that may easily arise. The factories in th crease their business and their capacity because of the recent development , and should it not continue satis
facto factory from the patrons point of view, the predictio
has been ve has been ventured that new factories may be organize
on a co-operative plan or as individual enterprises."

## The Cow's Udder.

The cow's udder is a delicate piece of machinery,
as sensitive to abuse, illtreatment, and improper care as sensitive
The udder of the cow is composed of two separate halves, the right and left halves, which are separated
by fibrous tissues. There is no connection between the by fibrous tissues. There is no connection between the
two halves, so milk cannot be drawn from one to the other. The milk glands proper are located near the abdomen, and extended downward in to the udder, the remainder of which is occupied by blood vessels, nerves
muscles, ducts, and tissues, making it rather open and muscles, ducts, and tissues, making it rather open and
sponge-like. At the lower end of the teat is the sphincter muscle, which keeps the milk from escaping. Over this the cow has no control whatever. The upper end of the the size of which varies in different cows, the capacity averaging about one pint. The opening from this reservoir into the teat is also guarded by a muscle over
which the cow has little control. Extending from the sides and top of this reservoir are a large number of ducts or tubes called milk ducts.
They divide and subdivide to form a chain work of a They divide and subdivide to form a chain work of a very large number of small tubes, and are surrounded
by blood vessels, nerves and muscular tissue is a still more complicated network of division and subdivision, but let this suffice to illustrate the point that in dealing with the cow's udder, we are working with
a very complex mechanism. a very comptex meclanis as
and more or less hot and tender just before and after calving. This swelling may extend forward to some extent on the abdomen. This condition is to be expected
and need not cause any anxiety. It is more pronounced when the animal has been well fed and is in good flesh. When this exists, the animal should not receive much grain until the udder softens. The ration should be laxative in nature, and of a light character. Bran
is especially adapted for feeding at this time. The milk is especiald be drawn several times during the day afte calving, followed by active rubbing or kneading of the udder. Milking before calving is advisable only with the heaviest milkers, when they are suffering greatly
from the distension of the udder. Congestion of the udder may merge into active inflammation or garget, as it is often called. This
usually results from exposure to cold, moisture, draughts
from blows or injury to udder, or from over-feeding of rich protein feeds. The cow should be kept from exposure to cold weather and, to cold draughts and of
cold, wet floors until congestion leaves the udder. Many times there will be only a slight swelling in beyond a tenderness. Or the milk may be lumpy and
full of threads, with no noticeable hardness in the udder. In severe cases the milk is usually suppressed
and replaced by a yellowish, watery fluid, containing clots of casein. The first symptom in these severe cases is a shivering of the animal, with cold ears and horns, followed in a short time by a fever. One of the
best methods of treatment in mild cases is to thoroughly massage the udder, and work in an ointment of one
table spoonful of gum camphor and six tablespoonfuls of lard. A physic should be given at once, and care aken not to expose the cow to cold weather or draughts. Another treatment for the more severe cases is made
by mixing two ounces of fluid extract of belladonna
leaves with four ounces of poke root and eight ounces of
There is nothing so good, however, as "elbow
grease" in curing mild cases of caked udder. It is grewse in curing mild cases of caked udder. It is severe cases of Epsom salts, one to one and a half pounds
in a drench; follow this for several days by giving one in a drench; follow this for several days by giving one
punce of saltpetre in the drinking water daily. ounce of saltpetre in the drinking water daily. as a form of paralysisu and associated with young cows,
but usually after the growth of the cow has ceased, and but usually after the growth of the cow has ceased, and
all her energy is devoted to milk production, or usually
when she is from five to nine years old. The disease is when she is from five to nine years old. It occurs in nearly
so typical that it is easily recognized.
every case within 48 hours after calving, and usually every case within 48 hours aft.
only after a normal parturition.
on the part of the cow. Her aitlessess and excitement on the part of the cow. Her gait becomes unsteady,
and she gradually loses control of her find parts, finally falling to the ground. She is usually unable to rise the cow now assumes a characteristic position, which is
a great help in diagnosing the case. She lies with her a great help in diagnosing the case.
head turned to one side, with her muzze pointing toward
the flank. The entire body is paralyzed, and she expresses all evidence of being in great pain. and she that will fill the udder with air, yet there is danger of introducing infection unless extreme care is taken. But for this fact an improvised outfit could be used. It is
well, however, to use a standard milk fever apparatus,
which can he secured from any drug store for a nominal price. Before using this apparatug the operator should thoroughly cleanse his own hands, and wash the udder
and teats of the cow with an antiseptic solution, then, and teats of the cow with an antiseptic solution, then,
having the apparatus free from infection, the milk tube
may be inserted into the teat without drawing milk it contains, and the quarter of the udder filled and well distended with air. The tube may then be carefully withdrawn, and a tape tied around the teat
tightly enough to prevent the air escaping. The same treatment is applied to each quarter. The udder should
remain full of air for at least 24 hours; longer if there is remain full of air for at least 24 hours; longer if there is
sign of trouble. The tape may be removed and another cratf has had to get his meals elsewhere during this treat-
ment. Warts on the teats are often troublesome in milking, besides adding to the danger of increasing the possibility
of contaminating the milk through infectious material which may be found upon them. They may be greatly benefited or entirely removed by smearing them thickly with pure olive oil. If they are large, and still persist despite this treatment, they may be cut off with a sharp caustic potash. They may be oiled now, and the caustic potash treatment repeated
to prevent their renewed growth,
Some cows lose a portion of their milk by its leaking from the udder. This may occur when a cow is milking heavily, and the periods between milking are not evenly divided, or it may be because the sphincter muscle is
not performing its duties properly. As there is no not performing its duties properly. As there is no be one, in case conditions, warrant, is to place a rubber
band around the lower part of the teat be done, in case conditions, warrant, is
band around the lower part of the teat.
Too small an
Too small an opening in the teats is the most com-
mon cause of hard milking. The size of the opening is mon cause of hard milking. The size of the opening is
controlled largely by a strong sphincter, which closes the teat opening more than it should normally. Anything that will cause this muscle to contract slightly
and the opening to remain larger, will, as a rule, make


Farmers Loading Ice Purchased from an Ice Company.
hard milkers easier to handle. Often lead or rubber teat plugs are placed in the teat duct, and fastened
there, so the cow wears them from one milking to there, so the cow wears them from one milking to
another; this treatment in time curing most hard milkers. In some cases this treatment is not sufficient, and the only cure is to cut the teat on the inside with a bistoury. This instrument is passed into the teat canal, and, by means of a turn of the handle, a small
knife is projected. As the instrument is removed, it cuts the side of the teat duct, and the surrounding
muscles. An ordinary teat plug is then kept in the muscles. An ordinary teat plug is then kept in the teat except at milking until the cut heals. This is a
rather dangerous operation, and, because of the likeli-
hood of infection, it is best to call a veterinarian. Of course, it is understood that anything which is to be inserted into the cow's teats should first be thoroughly disinfected.,
Dairyman.

## POULTRY.

## Selecting the Male Bird

As a general thing, there is not enough attention paid to the mating up of breding pens in the average
arm Hock of hens regardless of breed. Very often the male birds are not silecteded according to any set plans, and all too often the egss for hatching are simply picked
out of the basket of exps. from the entire fock, bood,
 our readers, who have purar bed woolds. recommend secre,
oarly in the season, one or more extra promising cockerels early in the season, one or more extra promising cockerels
or yer-old birid tous for mating, with selectected pens of proven good layers for this year's stock The man Who has crosed or mongrel poultry should also take
enoubh interst to purchase a purrebred male
bird of of enouph interest to purchase op pure bred male bird of be graded up just as much as should the live stock kept be erraded
on the farm.
upt is well to select the male bird early, before the upppy has been culled over, and be sure to get one
rom hens which have been good layers, and particularlo heavy winter layers. It is believed that egz-aying tendencies are transsitted throush the male gived from a laying strain of hens rather than through the pullet rom heavy layers. We would be safe, if possibe, ans
nse only pulles srom heavy layers and male birds from
 Select a well-grown, but not overly large, bird for
his breed. Get one true to type. Egg-laying strains of
some of the breeds-Wyandottes for instance-are considerably larger-bodied and rangier than are the best irds of exhibition strains. The farmer's highest return from his poultry comes from eggs first, and then from ancy breeding stock unless he or his wife is specializing n poultry. The average farmer should bank on getting ens. with utility stock. The male bird should be show vigor vigorous, shith plenty of bone, and should ness and thickness of beak, and a large, full, bright eye. He should look like "the cock of the walk." Masculinity
is important in any male, be it animal or bird, on the is important in any male, be it animal or bird, on the
farm. Be sure the bird has a straight breast-bone and has width and depth. Prof. Graham of the O. A. says that a good judge of a beef steer is generally a he bird upside down and see that he has a long, deep hould be rome is where the meat is put on and the of all his mates, provided his general make-up is satis
factory. The leader of the flock should be a leader.

## Rolled Oats Increase Egg Production.

Editor The Farmer's Advocate:
I have read a good deal about different methods feeding poultry in winter and have tried a good many
myself. I believe that one of the things which should be well looked after, if winter eggs are to be produced is a supply of dry mash, which the birds should have
isefore them at all
betimes before them at all times. There are many different
kinds of mashes recommended, but of all I have tried kinds of mashes recommended, but of all I have tried last fall my laying stock was not supplied with this feed. During the summer, owing to the high price of
this material, a wet mash, composed chiefly of shorts, was fed, and when the cold weather came, not desiring, feed at all for a few weeks. Very few of them were laying. A few weeks ago rolled oats were again sup-
plied, and within a week's time a difference was noticed
in the egg production in the egg production of the flock. The rolled oats
had the desired effect. It is surprising how many the birds will eat when they get their first supply
They will empty the hopper so quickly that the feeder
will become alarmed have once been filled up on this new feed which they like, they will not consume anything like as much as
they do at first. From experience I have mo they do at first. From experience, I have no hesitation the average farmer can supply in winter. He usually
has the oats on his own place and at the mill, making a very economical laying them rolled My own preference is to keep the hens fairly fat
during the winter. I never have had good success during the winter. I never have had good success
from thin hens. Of course, they should not be per-
mitted to get over-fat but thit mitted to get over-fat, but this can be avoided by feeding
their whole grain in the litter and making them work
or it. A fat hen well exercised will usually lay more ture with a little wheat, buck-wheat and corn or barley No whole oats will be required when rolled oats are being fed in the hopper. If rolled oats are not fed, then a few whole oats should be given in the grain mixture, as oats notwithstanding the percentage of hul are fairly good egg feed. For green feed, a mangel
hung on a string from the roof of the house will prove satisfactory, provided cabbage or sprouted oats are not available. The nicest green food I have ever tried was sprouted oats, but it requires a little work to sprout them and keep them always ready for the hens. A
ew shallow boxes are necessary with a little sand, and a good place to sprout the oats is on the furnace, if the house is supplied with such heating appliance. The oats are then fed to the hens and they co
sprout as well as what remains of the kernel.
Those who have fed hens for winter egg production have noticed the difference in the consumption of oyster shell as soon as the birds start to laying heavily. As a general thing, birds will not consume very much of this just before this time, and then they will eat surprisingly arge quantities of the shell, which should be befor hem at all times, together with grit, which should be supplied in a corner of the pen. Where one has access
to some old laster from an old building this will be ound a very suitable material to use as grit, as the hens will pick a good deal of the hard material from it. Where some such material is not available grit should
be supplied. I prefer pullet size for general use in the be supplied. I prefer pullet size for general use in the
laying flock.


The Old Way
1 use a cotton front house, and on days when the sun is shining, open it to the south, allowing free circulaaccess to an open yard of sunlight. The birds have surprising how much time they spend outside. They cold weather. to being cool and do not suffer in real cold weather. Their pen is never damp and is free
from drafts. As previously stated, I believe that the feeding of rolled oats is one of the secrets to success.
Middlesex Co. Ont.

## HORTICULTURE.

Choosing Non-standard Varieties. summer and early fall varieties of apples market for the chan, Duchess and Wealthy. Although these kinds are not commonly mentioned when varieties for an
orchard are being enumerated, they should not be overlooked for some particular locations. There are
markets that will handle these apples in and, since the standard varieties are maturing on the trees when the early ones are ready to be gathered,
there is a lull in orchard work. The farm which has many lines cannot produce fall apples as economically as can the exclusive fruit plantation for on the former
the grain harvest and early fall cultivation will the grain harvest and early fall cultivation will confict
with the operations in the orchard. Growers who customarily sell on the market or are conveniently located relative to the city trade have an advantage in in the cities at the head of the Great Lakes which cone boats that ply those waters. Succeesfyiled by the been made on the prairies sy growers who have produced
the varieties mentioned in carload quantities in the varieties mentioned in carload quantities in Ontario.
Duchess and Wealthy are are seldom recommended, except as fillers, but it is possible to make a fair margin of profit from them if In the year 1896 a Wealthy orchard was planted n the Central Experimental Farms, Ottawa, and de-
ailed records have been kept regarding it since. The trees were set 10 feet try 10 feet each ywar, ained 144 trees. Some of the trees were themoved a
they began ones werean taken out. The gra andy the poorest bearing the grass was cut and allowed to remain as a mulch. 1914. The trecords for the thees, only 88 were left b gallons, or $431 / 2$ barrels of apples wear show that 1043 .
 all expenses for the year in connection Aitter deducting
viz., growing, picking raclike orchard, yiz., growing, picking, packing, and marketing, the net
proits amounted to $\$ 36.03$, or at the rate of $\$ 115.40$ per acre. The fruit was all sold in baskets, except 20 1899, and for sixteen. 1899, and for sixteen years the average net profit per
acre amounted to $\$ 107.46$. The average net profit per acre from date of planting until 1914 was recorded as
$\$ 90.49$. \$90.49.
We
of produrtite these figures simply because exact records of production and profits are very seldom published
and very rarely kept by individuals. It is possible that during the present era as good profits over and above all expenses could not be shown, but the figures which we have given prove that there has been a marke for this class of apples, properly put up. There is no
reason why a similar orchard would not bring corre sponding results. We would not, however, advise planting the trees 10 feet by 10 feet apart. It is seldom
that land is so scarce or so valuable that this becomes necessary on the ordinary fruit-growing plantation Fifteen feet by fifteen feet or twenty feet by twenty fee wourd be a more suitable distance apart to plant the trees. The space between the rows of trees would permit of thorough cultivation and the growth of crops
so no expense should be attached to the orchard when it began to bear
the general plant have this article construed to advise the general planting of these soft and early varieties
of apples. Growers must varieties they set and during their hours of planning for the future, they should take into consideration the matter of convenience in picking and disposing of them market should be studied and known. It is often profitable to discover a market that others are not propplying. Little differences, specialties and diverssifi-
cation has many times meant more prosperous times.

The Need of Storage Facilities. The term over-production can never be truthfully applied to the apple growing and marketing business in applied to the apple growing and marketing business in
Canada until proper storage facilities have been tried
and have failed to stem that incoming tide which and have failed to stem that incoming tide which a
few, in their hours of pessimism, discern approaching few, in their hours of pessimism, discern approaching
the shore line of the fruit growers' domain. A year of curtailed apple crops will probably dissipate any thoughts of over-production for a time, at least, or until anothe eason comes round, when Canada and the United then with no will both harvest an abundance of fruit; our crop and distributing it over the winter months, the entire production will be dumped on the market in september, October and the first part of November, have excited a few to cry wolf! wolf!! the past which the Annapolis Valley failed years ago to provide themelves with warehouses where they could store their crop untii they had time to grade and pack it, they many apples being grown. On the contrary they erected large warehouses that would hold thousands of barrels each and made them frost-proof. Here the tier upon tier, in these well-ventilated and stored, buildings. Meanwhile harvesting went on apace, while eams phied between orchard and warehouse, sometimes both day and night. In this way the crop is emoved from the trees before damaging weather overand shipping except with his early fall apples. If these storage facilities had not been provided and the crops of the last few years had been put on to the market uring the same months that Ontari whole business, for much of it would have upon the ably gone West, where the production of Ontario has Nova Scotia could outlet. Fortunately the growers of October to prepare for sale any during September and varieties. They were stored and packed in the winter In this way many an embarrassing situation has been The Comme telegraphic report of the Dominion Fruit reveals the condition of the Canadian market in winter Spys cities of Quebec, Montreal, Ottawa, Hamilton, etc occurred in Quebec, P. $O$, but in the per barrel. This to $\$ 6.00$ per barrel for Spys in the other cities $\$ 5.50$ mentioned. As a general thing, there is no quantity of Ontario apples in the country after December. They render transportation of the water before heavy frost ance of apples in the autumn and a dearous. Abund the winter will ever result in low prices in the fall and high prices in the winter. Sometimes with plums located in town gardens, fence corners, and such places will probably be loaded too, and the consumer places buy just them. Similarly, with apples, there is often a local supply that must be cleared up in October and barret or wo for winter. Whell Wivest in in the fall, the grower meets the competition afforded through this inferior quality which he meets at that Prairie Provinces, it is true but does not arise in the and Quebec should consume a great quantity of Ontario home-grown product than they are doing. The On tario grower can never develop the trade to its proper
proportions with them until he equips himself with proportions with them
ample storage facilities
d to $\$ 36.03$, or at the rate of $\$ 115.40$ pples. The orchard began to fruit 20 ixteen years the average net profit per oo \$107.46. The average net profit pe,
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per eer and the first part of November,
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ohnson, the Domin Montreal, Otta wa , Hamilin winter high as $\$ 7.00$ per barrel. This
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autumn autumn and a dearthous. Abund
essult in in low prices in the fall and
winter $o$ ow winter. Sometiteses with pall and
pums,
harvests a good crop all urees d too, and the cons, ondsumer ploch olaes,
arly, with apples, there it ulte cleared up, in Oce intoberen and
und buyer will invest in a er meets the selling his entire crop his condition does mot arise in the that sume a great quantity of Onte of the m until he equips himself with situated on railroad sidings,
va Scotia are necessary. Even
if transportation facilities in the winter are not all that
are desired
O. A. C. Examination Results. are desired, yet one man with oil stoves and such, can
keep an ordinary car heated sufficiently to carry the fruit keep an ordinary
without freezing.
We would not advise this plan for districts where apple orchards are small and scattered. 'Their product
is most is most economically disposed of in the fall, and with
those growers fruit is usually subsidiary to other lines those growers fruit is usually subsidiary to other lines
of farming, but in apple-growing sections that really influence the market most materially some system of distributing the output over a number of months seems
necessary. Apples going West should also move before seversery. Apeather sets in. There is a winter trade in
s. . Ontario and Quetec in. There is a winter trade in
catering to through a system of storing.

## From Whom to Buy

There are $t$ two features of business that are worthy
consideration. First, there is the established business that is permanently located, is well equipped and has money invested in land, buildings, machinery, equipment, or whatever is necessary to carry on that who goes from place to place, displaying and disposing of his goods at pleast expense. The tax collector cannot
reach him, neither does he pay into the revenues of the reach him, neither does he pay into the revenues of the country. Reputation to the latter does not mean so
so much as it does to the man who has an established and permanently located business. Often-times people think they can get bargains from the transient tradesmen, but too often they err in judgment, and when
they have found out their mistake the party from whom they purchased is somewhere else. This principle applies to the purchase of fruit trees,
berry bushes and plants. There are a number of houses berry bushes and plants. There are a number of houses
that have established themselves and have gained a reputation amongst Canadian fruit growers. . These are
rest the proper sources through which to secure seed, berry
bushes and fruit trees. The oily-tongued jobber whose headquarters are situated afar off in some little unknown town makes too many sales in Canada, and in evidence where growers have waited years for their plantations to come into bearing waly to find it made up of worthless agent's name was unknown and the name of the nursery which produced the trees was perhaps not even menioned. Nurseries and seed firms which for many years
ave been selling their commodities over the country have a reputation to maintain. They wish to continue to make them right
These are the proper sources of seeds and trees.
few dollars or a few cens saved A few dollars or a few cents saved on the purchase
price may result in as many hundred dollars being lost


## FARM BULLETIN.

## Some Seasonable Pointers.

Get the ice house ready for the ice. If you haven't The other day we saw a wagon outside, a binder
under a leafless tree, a mare in a fence corner, and the
cultivator at the side of the barn. Put these in if they are yours.

Go over the implements and machinery and see
that all missing nuts and parts are replaced before they will be needed next spring

Clean the stables twice each day if possible, and
least once on all occasions.
Give the cattle a second application for lice.
Get the wood cut and hauled for next summer
while winter and sleighing are here.
For the man who prefers wooden gates, they may
be made at this season. Be sure to bolt them together
If straw is going to be scarce, haul the stack into
the barn. It will save better.
Preliminary preparation of the seed grain may be
made now.
All teaming can be more easily done while there is
good sleighing. Buy clover and grass seeds early.
Have all the team harness repaired, washed and
oiled. Harness is the most neglected part of the farm equipment.

Boil feed occasionally for the stock. It makes a
ad change. good change.
As soon as the ice is thick enough, lose no time in
harvesting it.

The following are the results of the Ontario Agri-
cultural College examinations, in the order of procultural College examinations, in the order of pro

## FIRST YEAR. <br> (Maximum 1,200.

Shales, $994 ;$ Cline, $938 ;$ Flatt, 934: Hart, 934 ;
Campbell, $928 ;$ Grant, $928 ;$ Hammersley
 Huite, 825; Harkness, 825; Wyatt, 822; E. Atkin, 816
 774; Bateson, 773 ; Renwick, 771 ; Whitelock, 770 ; Shield, 749;' Hodgins, $745 ;$ Almey, 744; Way, 740 Kezar, 738; Oliver, 738; Scouten, 732' WW. J. Wilson, 731
Gardhouse, 730 (No. 4); Toole, 730 ; Mason, 728
 Goudie, 702 (No. 6); Stewart, 701; Moore, 698; Ziegler G97. Pearsall, 691 ; Grunder 788 ; Andress 681 , No. 126 ;




 589 Janclson, (No. 4); Western, 593; Tice, 590 S. Secorc
No. 12); Howard, 583 (No. 12)
 Mills, 52 (No. 12), ;nderson, 545 (No. 1), Cunningham
543 (No. 12); Carr, $535 ;$ Coulter, 509 (Nos. 1, 12) 543 (No. 12); Carr,
Duff, 502 (Nos. 1, 4)

## Given prota Coatsworth, 562.

N.B.-

The numbers indicate the subjects on which students have failed to obtain a pass

List of subjects- 1 , English literature; 2, composichemistry; 6, botany; 7 , field husbandry; 8 , anima
husbandry; 9 dairying: 10 poultry; 11 apiculture; 12 husbandry; 9 , dairying; 10 , poultry; 11 , apiculture; 12,
vet. anatomy.

## SECOND YEAR

(Maximum 1,300.)
Bremner, $994 ;$ A. T. Brown, $991 ;$ Heimpel, 982
ames, $978 ;$ McArthur, 975 ; Logan, $966 ;$ Cooper, 958 James, 978 ; Mcarthur, 977 ; Loman, 966; Cooper, 958
E. S. Snyder, 954 ; Ferguson, 950 ; Andrew, 40; Arnold 940; Hammond, 940; Patterson, 188; Newton, 913
Wiison, 912; Malyon, 907 ; Leggat, 888 ; A. W. Snyder 893, Maybee, 89, Lowell, $883 ;$ McAdam, 882; Kay
876; McEwan, 868; DeLong 87 ; Stodart, 866 , Sul
 Munro, $808 ;$ Davis, $806 ; \mathrm{M}$. A. Watt, 803; Ralph Brown
802. R 802; Robinson, $802 ;$ Shorey (799; McWhiney, ${ }^{795}$
Halsey, 794; Edwards, 787 (No. 9); McCulloch, 781
Ril Riley, 778; Hoard, 775; Hamitoo, 773 (NNo. 8 ; Michael
767; Knowles, $766 ;$ McBeath, 765 ; Scott, 763 ; Lavis




 Edgar, 509 (No. 9); Flock, 486 (Nos. 9, 12).
List of subjects-1, English lit.; 2 2, composition; 3 ,
onomics 4 , surveyingandddrainage $; 5$, manual training; 6 ,
 chiemistry ${ }^{\text {\% ent enton }}$
10, file husband
ing; 13 , vet, science.

THIRD YEAR.
(Maximum 1,200.)
Watt, 951 ; White, $941 ;$ Davey, 934 ; Schurman, 905 ;
 Cuild, 844; Waterman, 849; Bird, 844; Murdock, 842 ; Clark, 828; Cudmore, 824; Campbell, 821; Van Every,
816; Hill, 812 ; Luckham, 808; Martin, 796; McKillican,

 No. 5); Begg, 612; Roger, 561 (Nos. 4, 5); Graham, 532 Nos. 4, 5, 6); McMulin, 506.
List of subjects- -1 , English literature; 2 , composi-
ion; 3 , economics; 4 , French; 5 , physics; 6 , inorganic,
 crypt. botany; 10, syst. e
entomology; 12, bacteriology

## Was It Lobbying?

Under the above heading the Christian Guardian Onder the above heading the Cristian Guardian
of December 29th has the following to say regarding
the recent articles relative to the of December a9th has the following to say regarding
the recent aticles reative to the C. N. F. Fre trip
West, which have appeared in THE FARMER's ADvocATB:
" The Farmer's Adyocate and the Canadian Northern Railway have had a slight difference of opinion press men, members of Parliament and senators were accorded a free trip to the coast in a special train over the Canadian Northern Railway. THE FARuER's effective species of lobbying, and as such, members of Parliament and senators had no business to take any
part in it. Mr. W. H. Moore, secretary of the C. N. R. part in it. M. M. W. H. Moore secretary of the C. N. R.
system, writes objecting to this siew, and declares that the obislators how rod a road was simply to show the lergues that as the members in question have passes
over over every railway in canada, the idea of improperly
infuencing them by the trip is somewhat absurd. But infuencing them by the trip is somewhat absurc, But
we think the editor of the FARMERR' ADvocate has spoken the mind of very many Canadian citizens, who while recognizing the value of our great railway systems, recognize also the possibitites of the ratway lobby in
affecting Canadian legislation, and we think the editor is unquestionably right when he claims that the man who has freely accepted the ungrudging and lavish hospitality of the heads of any railway can hardly be
uninfuenced by that fact if he should be asked to vote a. further bonus to that railway. The point at first sight may seem to be somewhat unimportant, but we
think it will be found to have rather far-reaching m plications. Our senators and members of Parliament more afford to accept presente from inderested parties
than can a audge upon the bench." than can a judge upon the bench."

Nova Scotia's Agriculture in 1915.
The Secretary for Agriculture for Nova Scotia, M,
Mming, in his report on agriculture in that province Cumming, in his report on agriculture in that province
in 1915, states that excellent pasture conditions were responsible for about $10 \%$ ext in connection with the year., Particularly was this true movement has made remarkable proorresp in Nova Scottia
during the last few years. In lo14 the output of the over that of 1910 and the returns for 1915 indicate another 40 per cent. increase over the output of 1914 . Excellent pastures and an increased report in connection with live stock. Attractive prices have been paid by butchers for beef cattle, yet corree
spondents reported to the Secretary a slight all-round incrase in the case of dairy cows, sheep thogs and
poultry. It appears from the report that the number of sheep being kept in Nove scotia has increased by 5 per cent., due in part to the attractive
are now being paid for wool and mutto
are now being paid for wool and mutton, During 1915 clover grew in protusion everywhere, of years. The conditions for harvesting were not very
favorable, and a considerable quantity of hay was harvested in rather inferior condition, but on the whole the crop was one of the largest ever garnered in the
history of the province. Reports indicate that Indian corn, peas, oats and vetches, rape and fall turnips, grown for the purpose of supplementing pasture fields
for cattle, saw a considerable increase fin 1015, and several silos were erected in districto where proviously such equipment was uncommon. Potatoess were a
disappointment as regards yield and quality, and apples did not come up to expectation. Tables in connection
with this report compared with that of 1014 show for with this report compared with that of a 1915 an increase of 200,000 tons of hay
incease of two and three-quarter million bushels
about 300,000 fewer barrels of apples.

The Calgary Fat Stock Show. With the closing of the year 1915 came the Calgary
at Stock Show, and both have now passed into history. Although expectations regarding the susccess of the show vere none too sanguine, the event was a surprise both
oo visitors and to exhibitors. An increase of 22 head ccurred in the cattle department, and there were 2068 he existing feeling regarding swine-raising in the West here was a decrease of 28 head in that department. stock seen at this show, yet there is room for still more improvement. A large number of animals came forward that were very good indeed, while some of the
entries did not possess the finish that will be seen in entries gears if thosess the Calgary Fat Stock Show continues
future years in the to improve as it has done.
entire showing being a record in the history of this that entire showing being a record in the history of this fat
stock show. Yule
Bowes of Calgary, Alta, were the most successful exhibitors, winning the lion's share of
the awards. This firm produced the chammion of the the awards. This firm produced the champion-of the
breed. Standing reserve was $H$. S. Currie's Roan Lady 46th. In Herefords, Frank Collicutt, Calgary, Alta., met some competition from the herd of Hill Bros, Lloyd-
minster. However, Collicutt was successful in winning minster. However, Collicutt was successful in winning
most of the awards, as well as the championship and most of the awards, as well as the championship and
reserve championship.
Three of the best Aberdeen-Angus breeders in the

Province of Alberta made the fighting keen in the
Doddies. To Lew Hutchinson, of Duhamel, went the highest honors in each class, as well as the championship nd reserye championship.
The grade cattle bore evidence of careful feeding, and the competition throughout was keen. In the a grade Aberdeen-Angus, which was ultimately made champion grade.
doubt the best steer at the show..
With 36 entries less than last year, the swin With 36 entries less than last. year, the swine
department was weakened somewhat. The Yorkshire,
Berkshire, Tamworth, and grade classes. were fairly Berkshire, Tamworth, and grade classes were fairly
well contested, and in Hampshires a nice lot were well contested, and in Hampshires a nice lot were
forward. The quality of the exhibit maintained the same high standard of the past.
The Shropshire, OOford, Suffolk, Southdown and
grade classes aroused considerable interest in the sheep grade classes aroused considerable interest in the sheep
pens on account of the large number of flocks competing, pens on account of the large number of flocks competing,
and because of the high finish and excellence of type represented. In 1914 there were 166 sheep in this department; in 1915, 372 -an increase of 206 came efore the judges for awards.
A. S. McDonald, Cochrane, Alta., had the first and second prize carloads of fat cattle, while insheep

## New Year Nonsense.

## by peter mcarthur.

Santa Claus was certainly good to me this Christmas. For once he brought me something meseful -something
I needed more than anything else. As a rule he brings I needed more than anything else. As a rule he brings
me things for which I can be only mildy thankful-
books, slippers, and things that I could buy for myself me ors, slippers, and things that I could buy for myself
bif I needed them. But this year he brought me something that I have never been able to buy in a satisfactory way. Owing to some mental kink, I have never been able to buy collar buttons except when in the pinch of
dire necessity. Perhaps it is because they are such dire necessity. Perhaps it is because they are such
trifing things that I can never manage to remember
them when I go shopping. Anyway, I can remember them when I go shopping. Anyway, I can remember
no time since my boyhood when I had on hand a proper no time since my boyhood when I had on hand a proper
supply of collar buttons. I could lay in a supply of
shirts and collars, but collar buttons seemed to escape supply of collar buttons. I could lay in a supply of
shirts and collars, but collar buttons seemed to escape
me. In consequence, when I went to put on "my other me. In consequence, when I went to put on "my other
clothes" to go to town or to some public meeting, there Was usually a strenuous time in the house. Every
year the trouble got worse. With growing boys who
used collar buttons in everything from blouses to white year the trouble got worse. With growing boys who
used collar buttons in everything from blouses to white
shirts and women folks who used them in shirt waists, shirts and women folks who used them in shirt waists,
the supply was always at low ebb. Often and often in the supply was always at low ebb. Often and often in
moments of rage I I vowed to buy a quart or a pound
or a gross of collar buttons- whatever the quantity is or a gross of collar bowttons-whateqer the quantity is
that people buy when getting them wholesale. But after 1 got fixed up and went to town, I always forgot
to buy even a five-cent card of bone collar buttons. to buy even a five-cent card of bone collar buttons.
Apparently some rumor of my troubles reached Santa
Claus, for this year he showered them on me. On Christmas morning I netted twenty-eight, and for the next few months I hope to dress in a peaceable frame of
mind. I am dropping them around in all sorts of odd corners that the children are not likely to find, so that when If go to dress up I shall be moderately sure to find one-if I hunt long enough.

A short time ago the whole family got a great
surprise. It was discovered that the mother of Fenceviewer $I$ is still living-a hale and hearty cow, still in possession of all her faculties and giving a highly satisa man a few miles away who bought her at a sale a few
months before we returned to the land. When Fenceviewer came into our possession, she was a thrifty and self-reliant yearling, with an established reputation for
breaking through fences. Nothing about her suge that she had ever had relatives or that she cared a hoot whether she had or not. Like Topsy, she "just growed." No one ever took the trouble to enquire as to her an-
eestors, for it was quite certain that their history did cestors, for it was quite certain that their history did
not figure in the herd book. As the years passed and
her descendants increased in number her descendants increased in number, we learned to
speak of her as the old cow, though she is still "in the vaward of her youth." As a matter of fact, she is not
yet eight years old, and her mother is still in her primer And I have no doubt that if they met in her prime fight for the leadership of the herd just as if they were
strangers. The saying that "blood is thicker than strangers. The saying that "blood is thicker than
water" would not influence them if they met at the water would not influence them if they met at the
watering place. They would fight just the same.
This matter of having regard is a purely human affair. Animals are not affected by it except when actually caring for their young, and in that
way they are spared a whole lot of worry. Take the
driver for instance triver, for instance. Last spring she was ready to bite,
kick or trample anyone who went near her and he newly foaled colt, but now if that weaned colt goes throurh the wall of the stable. Surely it is a strange
world we live in, and just as hard to understand whethe we consider it from the point of view of animals or of
men.

## Before I forget it, there is another point of interest about Fenceviewer I., When I made her acquaintance about Fenceviewer I, When I made her acquaintance in her "salad days, she was known as "Blossom." Just think of it. This tough old pirate of the barn- yard was once so mild and gentle that she suggested  

may as well confess that Fenceviewer is only her society
name, one that is used only when she appears in the papers. Her everyday name is "Calamity," and it fits there is sure to be a calamity of some kind before she has been prowling very long. The fact that she is only a cow made it possible for us to change her name
as her nature changed. Wouldn't it be a good thing as her nature changed. Wouldn't it be a good thing
if we could do the same with people? While children are young and cute they could be given such names as "Birdie," "Dot," "Algie," "Percy," and so on. But necked men, their names could be changed to others as this prevails among the Indians, and that a man does not get his permanent name until he has deserved
it. For this reason we find among them gems someit. For this reason we find among them gems some-
thing like the following: "Scat-Ah-Nag-Nag" (Man-Afraid-or-his-Wife). Gitche-Whoop Ee (Hunting Trou-
ble) Wow-Wow-Ha-Ha (Laughing Fire-Water,") and so ble) Wow-Wow-Ha-Ha (Laughing Fire-Water,")and so
on and so on. If we could re-name some of our public on and so on. If we could re-name some of our public
men as well as our friends and acquaintances in this way, our voters' lists would make more interesting reading than they do now. Besides, introductions would mean more, and we could avoid serious mix-ups if
people had descriptive names. No man in his senses would think of introducing, "Laughing-Fire-Water" to that we are in need of a reform in the naming of people
and live stock. It appeals to me more than spelling and live s

## Draft Horse Future Bright.

The following letter has been received from Wayne nd it certainly depicts rosy prospects for the dra horse business in the United States for 1916 and future years. Horse market prosperity in the United State:
should, in time, have a beneficial effect upon the in this country. The degree of optimism shown in his letter is in marked contrast with conditions in this country, but Canadian horses of the right kind will is a good future for draft-horse breeding in this country Such letters as this should stimulate our authorities to action to remedy conditions which have prevailed for several months. All figures given and statements mad The letter follows:
"The beginning of 1916 ushers in what promises to be one of the most favorable seasons horse breeders
have ever faced. Draft horse producers have especial reason to feel optimistic. The marked improvement in the industrial world has brought transportation facilities -railroads, motors, and and all transportation agencies freely than for two years past. Draft geldings have beep in good demand at higher prices, and the farm that horse dealers are being eliminatready so strong good draft mares
The elimination draft horses are also in keen demand resulted in a marked stimulus to horse breeding in this country, and more satisfactory prices have been paid
to the breeders and raisers of good American bred draft colts than at any time in our past history 1910, was $19,833,113$ head, and the Govern April 1st mates for January 1st, 1915, credited this country with 21,195,000 head - an increase of 6.86 per cent. over 1910 . as to stallions in service are Illinois, Iowa, Kansas, Nebraska, Wisconsin, Minnesota, North and South
Dakota, Michigan, Pennsylvania, New Jersey, Cali states had, January 1st, 1915, a total Montana. Thes $11,085,352$ horses, assuming the same rate of increase for these states as for the United States as a whole.
They also had, according to the latest available Stallion
Board Board reports, 47,697 stallions, all told, in
23,671 of which were pure-bred draft stallions
United States, it would give us a total of 91,357 stallions in service, approximately half of which would be classed as pure-bred iratters. As a matter of fact, however portant horse-producing somewhat less, except In all the imand Texas, are included in our figures, and the propor-
tion of stallions in use in other states is unquestionably lower, as less attention is given there to horse produc-
tion. Assuming, for the sake of argument that thes percentages hold good, however, we have about these 40,000 pure-bred draft stallions and approximately the same
number of stallions of other kinds, most of which are
grades and mongrels grades and mongrels. Any well-informed horse breeder in service are annually being retired because of age,
death, unsoundness, or other cause, and it therefore foaltows that about, or other cause, and it therefore
fettired from the breeding ranks. wastage alone, therefore, we must replace 4,000 pure-
bred draft stallions annually, and as the bred draft stallions annually, and as the other stallions,
grade and otherwise, should for the most part be re-
placed by pure-bred placed by pure-bred draft sires, we actually need around
seven thousand good draft sires annually to fill the places of horses dropping out of service.
"During the fiscal years of the various draft-horse record associations, ending in 1915, approximately
12,000 American-bred draft horses were recorded. This
includes both sexes and all includes both sexes and all ages of Percherons, Clydes-
dales, Belgians, Shires, French draft and Suffolks.
Less than half of
producing annually now less than 6,000 draft stallion of the stallions that are recorded are not good enough of the stallions that are recorded are not good enough
to be of any real service in improving the draft horse
stock of the country. It therefore follows that we are stock of the country. It therefore follows that we are
really producing less than five thousand good, pure really producing less than five thousand good, pure-
bred draft sires annually, when we need at least 7,000 per year, at the lowest calculation.
other factors the foregoing considerations, there are industry. High-priced augur well for the draft-horse farmers to study methods of reducing costs in farm work The advantages draft horses have over light horses in farm work are numerous. The tractive power horse can exert is governed by weight, strength and tempera-
ment. Under extraordinary pressure horses can ment. Under extraordinary pressure horses can exer
from four to six horse power, but under conditions from four to six horse power, but under conditions of
daily work exert a pull which is about one-tenth of their working weight. The horse-power traction re quired to move farm implements depends on the soil,
climatic conditions, and the condition of implements climatic conditions, and the condition of implements
used. Under favorable conditions five draft horses weighing 1600 pounds or over, will pull a two-plow gang of 14 -inch plows a little more than twenty miles, averaging from five to five and a half acres per day It will take seven horses that weigh from 1100 to 1300
pounds to do the same work, and it is not practicabl pounds to do the same work, and it is not practicabl class of farm labor. It will therefore require two men on single plows, one with four and the other with three
light horses, to do the same amount of work that light horses, to do the same amount of work that one
man will do with five draft horses. The same general ruling applies in seeding, discing and harvesting, for while one man can readily handle five draft horses on the implements needed, he cannot advantageously nor
safely use enough more light horses to give his equivalent safely use enough more light horses to give his equivalen
power. The use of draft horses therefore increases the power. The use of draft horses therevore increases the actual practice the work is better done when drafters are used. When to this we add the fact that less barn
room is needed, and less labor required in handlin room is needed, and less labor required in handling the horses are used to make up equivalent power, the advantage becomes marked.
"Besides this, the
and at higher prices, when surplus is toll be sore readily weight horses have been bought at prices ranging from $\$ 200$ to $\$ 300$, while draft horses have brought from every well-managed farm has a few surplus horses to sell annually, and the readier sale, and higher- price draft stock, are factors which must appea returns to all thinking farmers. Maximum cas obtain from drafters used in farm work.
well. Horse buyers which thinking farmers will ponder as never before. More than half a million horses and over one hundred thousand mules have gone for war purposes. Dasts and from abroad will continue as long for the battling nations must call on us for horses for industrial purposes. Country sales already reflect the feeling of conservative farmers, who are reported good buyers at strong prices, on first-class mares we
1600 pounds or over, whether grade or pure-bred.
"The recent cable from President Aveline, Percheron
Society of France, that the Government there has Society of France, that the Government there has
agreed to allow the exportation of two hundred stallions, er, only serves to emphasize the " to which war has draft horses than in any other class of stock, alway providing that a man buys no more mares than he needs
ment

WAYNE DINSMORE.

## A School Teacher on School Matters.

In renewing his subscription to The Farmer's Advocate, Robert Gates a Thunder Bay Fistrict sub scriber, writes:-
"I am a te
our articles regarding rural education and murested in generally, and in this connection I have derived great Nature's Diary," articles by Peter McArthur, and our correspondents have been Klugh. A number of school be made the center of the social life of the community. I am not sure that they realize just what munity. I am not sure that they realize just what
that means. Truly, I believe, the school is one of the main centers of the life of a neighborhood, but the essential place of the school is to prepare pupils to take has its value in this regard, and the of society. Play with the pupils at recess or noon, but teaches during school hours, is a valuable asset. But the school is for munity think it is for them, young people of a com-
mere is often trouble. he young people are few and belong to the higher classes it is all, right, but too often there are some rural 'smarties' who could not come into the school without marking up the children's books, writing offensive things
on the blackboard, or in other ways misbehaving. It is some years now since most of the rural trustee boards passed resolutions against using the school for any
other purpose than instruction. One point more-it is the fashion for some of your writers to always refer to

FOUNDED 1866


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seven horses that weigh from 11100 to 11300 the same labor. It will therefore require two men
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to this we add the fact that less barn ed, and less labor required in handling the
than is necessary where than is necessary where enough more light
sed to make up equivalent power, the comes marked.
this, the heavy horses sell more readily
prices, when surplus is to be sold. Light prices, when surplus is to be sold. Light
have been bought at prices ranging from
, while draft horses have brought from 'each. This is an important factor, for
anaged farm has a few surplus d the readier sale, and higher- pricea thinking farmers. Maximum cash
thing lrafters used in farm work.
re facts which
yers have scoured the Uners will ponder
More than half a million horses and dred thousand mules have gone for war ts, and will be strong for years afterward,
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in pan buys no more man buys no more mares than he WAYNE DINSMORE.

## ool Teacher on School Matters.

 eacher and have been mudh interesed in in in hisisomection Ithan doriturf trat





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TANUARY 6, 1916
THE FARMER'S ADVOCATE
15
libel on our whole educational system. Such writers
usually condemn History and Literature, etc., but they usually condemn History and Literature, etc., but they
are just ten years behind the times. The teachers of to-day are quite different from those of ten years ago.
Now, our rural teachers are Normal trained, our whole Now, our rural teachers are Normal trained, our whole
course of study has been revised, and the methods of course of study has been revised, a and the methods of
teaching are entirely different. I do not think that people realize what a wonderful change has occurred.
A few years ago I had pupils pass the Entrance who would not be considered good "Third Book" pupils
now. Moreover, some of my brightest and best pupils now. Moreover, some of my brightest and best pupils
are, after creditably passing the Entrance, making
happy and contented citizens on the farm" happy. and contented citizens on the farm.
least, is influencing his pupils to stay on the farm. An explanation of those parts of his teaching which tend
to keep the boys and girls in the country would be ways has our educational system so changers. In what ten years as to keep the boys and girls in the country
districts?-EDITOR.

## The Annual Meeting of the Experimental Union.

The 37th Annual Meeting of the Ontario Agricultural and Experimental Union will be held at the
Ontario Agricultural College, Guelph, on the 11th and 12th of January
The co-operative work amongst the farmers has again been carried on throughout the Province. Up-
wards of four thousand. farmers took part in this work wards of four thousand. farmers took part in this work
during the past year. The co-operative work now induring the past year. The co-operative work now includes the testing of all kinds of farm crops, the application of commercial fertilizers and farm-yard manures, the growing of mixed grains, the eradication of weeds,
besides work in forestry and in beekeeping and in conbesidion with the public schools of Ontario.
necting in conBesides the presentation of the summary results and
the principal conclusions from the co-operative work the principal conclusions from the co-operative work,
snbjects of great agricultural value will be discussed at the annual meeting. Amongst the subjects for presen nection with Ontario Fruit Growing," "Ontario's Supply
of Good Seed for 1916," "Business Methods and Farm of Good Seed for 1916," "Business Methods and Farm Accounts," "Thin and Thick Seeding and Mature and
Immature Corn," "The Potato Rot as it Will Affect Immature Corn," "The Potato Rot as it Will 'Affect Amongst the speakers aree: Dr. G. C. Creelman, Hon.

Mr. P. E. Angle, Mr. P. W. Hodgetts, Mr. F. M.
Clement, Mr. J. B. Fairbairn, and several of the pro-
fessors of the Ontario Agricultural College. essors of the Ontario Agricultural College. All sessions of the Experimental Union to be held on open to any person interested in agriculture, and everyone is welcome to take part in the meeting. Cheap
rates have been arranged on the certificate plan. For rates have been arranged on the certificate plan. For
fuller particulars and a copy of the program, apply Ontario.

The Farmers' Indispensable Paper. tions from individual readers far and wide to commenda Farmer's Advocate and Home Magazine upon reaching $i_{\text {ts }}$ half-century jubilee number, have been the unsolicited expressions of appreciation from the newspaper press, which is alert to recognize how much of effort behind and underneath the record of achievement. Th thanks of the paper are due to this cordial recognition on the part of the newspapers of the country. To reproduce even a fair representation of these expressions limits of our at this season particularly, beyond the "The Advertiser," London, Ont., probably expresses finely as could be done in compendium form _what so
"The Farmer's Advocate" has reached its golden jubilee, and the Christmas number published to com memorate the anniversary is worthy of the occasion. In 50 years showing the and compares it with the Canada of 1915; Advocate has aill Throught the Advoca is life the vere and Succe , The ocate's motto has been 'Perse cess is abundantly assured. The special numb, and suc a special appeal to those who remember the trials farm life in 1865. It will recall early days to them and bring that pleasure which only contemplation of the past can induce. The Advocate anniversary issue complished, and should be found in every farmer's
house."

## Successful Ayrshire Sale.

 The Consignment sale of Ayrshire cattle held at 30, 1915, by the Southern Counties Ayrshire Breeders Club was a very successful affair. Messrs. Moore \& Dean conducted the sale in their usual successful andbusiness-like manner. The was Scot's Snowball, which went to Smith Bros of St Thomas for $\$ 282.50$. Thirteen cows, three years or
over, sold at an average price of $\$ 165.57$. Eight two year-old heifers made an average of $\$ 94.06$; yearling averaged $\$ 91.66$, and heifer calves, under six month made an average of $\$ 49.64$ Five yearling bulls sold for $\$ 377.50$ or an average of $\$ 75.50$. Four bull calves sold at an average price of $\$ 70.62$. Following is a list
of the animals selling for $\$ 100$ and over, with the names of their purchasers: Airmount Boneva, E. B. Palmer \& Son, Nor-
 23000 Lena of Fairfield, J. B. Ross, Meadowvale...... 19500 Milkmaid of Mt., Eligin, Smith Bros., St Thomas
Polly 2nd of Fernbrook, E. Burpee. Palmer 19500
16500
16000 Polly 2nd of Fernbrook, E. Burpee Palmer, Scot's Snowball, Smith Bros...................................
Selwood Highland Mary, W. Leaming, BlandDaisy, Frank Wight, Thedford.........

Snowdrop of Montebello, J. B. Ross. Snowdrop of Montebello, J. B. Ross, dale 16250 | Pansy of Hillcrest, Wilbur Dennis, Delmer..i. | 105 |
| :--- | :--- |
| Substitute for Lot 43 |  |
| 3, Philip Broad, Otterville | 157 | Violet of Fafrview; J.B.Ross ......................... 15750

21750
16557
TWO-YEAR-OLD HEIFERS Selwood Juniper, Strath Lynn Farms, Simcoe.... 12000
Jean Armour of Fairfield 3rd, J. J. Jamieson
 Blue Bell 10ther SEXES AND AGES

Neidpath Rose 27th (junior heifer calf), R 10500 | Neidpath Lieutenant (yearling buil), Wm. 14750 |
| :--- |
| Thorn, Lynedoch....................... | Sir Ivan (yearling bull).......................................... 10000

10000 10750

## Toronto, Montreal, Buffalo, and Other Leading Markets




Flour.-New, winter, $\$ 4.80$, according to
sample, seaboard or Toronto frelghts, in
bage, bagsi, prompt shipment. Manitcoba flourFirst patents, $\$ 6.80$; second pateats,
$\$ 6.30$ in jute; strong bekern', $\$ 6.10$ in
jute in soter $\$ 6.80$ in jute; strong baker'
jute; in cotton, 100 . more.

HAY AND MHLTFBER
Hay. - Baled, car lots, track, Toronto,
No. 1, $\$ 17.50$ to 818 ; No. No. 1, $\$ 17.50$ to $\$ 18$; No. 2,988 to
$\$ 15$, track, Toronto, per ton,
Straw.-Baled, car lots, $\$ 6.50$ to track, Coronto
Bran,- $\$ 24$ in begs, delivered, Montreal
freight; shorts; $\$ 25$ dellvered, Monteal Ireight; shorts, $\$ 25$ dellvered, Montreal
freight; middilinge treight; good food flour, per bag, $\$ 1.60$, Montreal frelght.

COUNTRY PRODUCE.
Butter.-Prices remained stationary on the wholeseles during the paft weok Creamery pound squares, freeth mede, 810 .
to 85 c .; cropamery eut squares, 88 c , to 84c.; creamery soli
Eggs.-New-laid egge were stighty more plentiful on the wholesales, golling at
50 c . to 55 c . per. 50 c . to 55 c . per . dozen; cold-storage egs
80 c . to 38 c . per dozen; cold-atorace onds, 24 c.
Beang. to 25 c, , per dozen. Beans.-P
per buhel. \$1.25; New Brunswick, per bag car lot,
$\$ 1.40$, Cheese.-New, large, 18c.; twins, 18 c e. Honey.'-Eixtracted, 10c. and 110. par
pound; combs, per dozem sections, 82.40
hides and skins. City hides, flat 18c.; country hlase cured, 17e.; country hides, part cured,
16c.; country hides, green, 15c.; cilf skins, per lb., 18c.; kip skins, per lolf,
16c.; sheep skins, $\$ 1.50$ to $\$ 2 ;$ lamb skins, per lb., 18c.; kip skins, per lib.,
16. .; sheep kiking, $\$ 1.50$ to $\$ 2 ;$ lamb
skins and pelts, $\$ 1.20$ to $\$ 1.35$; horso and

## THE ROYAL BANK OF CANADA

## 

 Capital Pald up :Reerree Funde
HEAD OFFICE: MONTREAL
Branches throughout every Province
of the Dominion of Canada

## Accounte of Farmere Invited <br> Sale Notes Collected

Savings Department at all Branches
wholesale fruit
Apples,- $\mathbf{2 5 c}$. to 35 c . per 11 -quart bas
ket; $\mathrm{Snows}, 50 \mathrm{c}$, per ket; Snows, 50 e. per 11 -quart basket,
$\$ 3$ to $\$ 6$ per barrel; Sples, $\$ 4$ to $\$ 6$ per barrel; Greenings and Baldwins, $\$ 3$ t per barrel; imported, $\$ 2.25$ to $\$ 3$ per
box; British Columbia, $\$ 2.25$ to $\$ 2.50$ per box; Ontario, $\$ 1.50, \$ 2$ and $\$ 2.25$
er bo
Bananas- $\$ 1.50 \mathrm{to}_{0} \$ 1.80$ per bunch.
Cranberries $\$ 13.50$ to $\$ 14$ per barrel Graperruit-Florida, $\$ 3.50$ to $\$ 4$ per
case. case.
Tom
er lbatoes-Hot - house, No. 1's, 271 id per 1h.; No. 2's, 20 cc. ; Californias, $\$ 3 \mathrm{per}$
case of about 30 lbs .
wholesale vegetables
Artichokes-25c. to 30 c . per 11-quar
Beets-60c. to 80c. per bag
Baskel
Beans-Green, $\$ 4$ to $\$ 5$ per hamper wax, $\$ 4$ per hamper.
Brussels
sprouts-
100
quart, $\$ 1.25$ to $\$ 1.50$ per four - baske case; imported, 20 c. per box
Cahbage- 1.25 per barrel.
Cahbage- $\$ 1.25$ per barrel.
Cauliflower- $\$ 3.50$ to $\$ 4$ per barrel; im

| Ported, $\$ 8.25 \mathrm{t}$ to $\$ 3.50$ per case. |
| :--- |
| Carrot |

Carrots- 75 c . and 80c. per
40 c . to 50 c . per dozen bunches.
Celery -17 jze . to 80 c . per dozen; Cali-
ornia, $\$ .75$ to $\$ 6$ per case.
Cucumbers-Hot-house, $\$ 2.50$
Cus.
Eggplant (imported)-20. $\$ 2.50$ per case.
Endive-50c. per dozen
Lettuce-Boston head, $\$ 4.25$ per ham-
per, $\$ 2.25$ to $\$ 2.50$ per case; leaf lettuoe er, $\$ 2.25$ to $\$ 2.50$ per case; leafl lettuoe,
20c. to 30 c , per dozen. Mushrooms-Imported, $\$ 2.25$ to $\$ 2.75$ per six-quart basket.
ket; No. 1 's, $\$ 1.25$ to $\$ 1.35$ per bas
年 ket; No. 1 s.s, $\$ 1.25 \cdot$ to $\$ 1.35$ per sack;
other grades, 90 c . to $\$ 1.15$ per sack; Spanish onions, \$4.75 per large case.
Paísnips-80c. per bag.
Potatoes-New Brunswick Delawares, $\$ 1.50$ to $\$ 1.60$ per bag; Ontarios, $\$ 1.40$
per bag; British Columbiaa, $\$ 1.50$ per
bag.
Pota
Potatoes-Sweets, $\$ 1.35$ per hamper.
Peppers-Sweets, green, imported, 65 c . Squaen, 75c. per basket.
Squash-Hubbard,
50 .
dozen.
Vegetab
Vozen.
$\begin{aligned} & \text { Vasketable } \\ & \text { basket. }\end{aligned}$
oyster-75c. per
11 -quart

## Buffalo.

Buffalo's live-stock trade for the year
1915 proved most eatisfactory, considering that the year at all markets proved rather lean, in that the supply was
lessened, on account of smaller numbers of all classes of live stock being raised.
The range sections showed heavy felling bers, and the market With showings made by other markets. Total offerings for the year 1915 were
236,102 cattle; $1,805,744$ ber 236,102 cattle; $1,805,744$ hogs; 885,128
sheep and lambs, and 126,137 head calves. Cattle were a few thousand
short for the year as compared with 1914. A Pew Sancy Christmas cattle
sold up to $\$ 10$ and $\$ 11$, but sold up to $\$ 10$ and $\$ 11$, but it was sel-
dom that the prime steers reached $\$ 9.50$, and this price was about the best Canadian stcers. for the choiceet heavy
were, for the the the receipts were, for the year, something like 235,--
000 in excess of 1914 . The largest ceipts for one month were in November,
 head. The largest day's supply was
November 22nd, with 27,658 head. The November week was that beginning Decomber
best when the six days runs to
13th, when 13th, when the six days runs totaled
64,600 head. During the year 1914 Canada contributed quite freely to Burfalo, sending to this market 86,829 head, while for the year just closing there were not in excess of 9,000 from across the
river, showing that the river, showing that the sapply was light
and demand strong in the Dominton.
Total oferings for the year on sheep
and lambs dropped off around 146,000 , and lambs dropped off around 148,000 ,
due to the general scarcity of feeding lambs throughout the country, and the high prices paid for the feeding lambs by
the killers, in the absence of the finished kinds, to meet an urgent dressed demand. The supply of Canad d lambs for
1915 was less than half of that for 1914 , 1915 was less than half of that for 1914,
receipts this year from the Dominion
being 5,297 compared with 10,928 receipts this year from the Dominion
being 5,297 , as compared with 10,928
the previous year. Buffalo holds two the previous yigh-priced lambs-that of
records for hin
$\$ 11$ $\$ 11$ for clipped and $\$ 10.50$ for Decomber
wool lambs. Buffalo did not selr wool lambs. Buffialo did not self wo
lambs as high as other markets year, for the reason that wool lambs on
the local market did not run as late the local market did not run as late as
on some of the Western markets. April on some of the Western markets. April
of last year about wound up the wool
lamb lamb season, and Buffalo's top was reg istered at $\$ 11.40$, Chicago selling wo
lambs later on as high as $\$ 11.65$, b a bout the time that price prevailed Western markets, Buffalo was sel:h
clipped lambs as high as $\$ 11$, which equal to $\$ 12.50$ with the wool on. On calves, receipts for the year 1915
were in excess of 1914 by about 15,000 were in excess of 1914 by about 15,000
head. The largest receipts for one day were on April 26, with 2,324; largest week recipts were from April 26 to
May 1, with 5,700 head, and larg-
est receipts for one month came in May,
with 18,398 .

Omparative

Baled Hay.-Prices were about $\$ 1$ per
ton higher than the previous week ton higher than the previous week, be extra good No 20 No. 1; \$20.50 for $\$ 18,50$ for No. 3, per ton, ex-track. Seeds.-Seed of all kinds is diffeult to obtain, although alsike was more nor-
mal. Dealers were paying $\$ 7$ to $\$ 10$ per bushel of 60 lbs. for it, at country points. Red clover ts alimotit impossible to obtain, being exceedingly scarce.
Dealers were bidding $\$ 10$ to $\$ 13$ per Dealers were biding $\$ 10$ to $\$ 13$ per
bushel, or $\$ 3$ more than a year ago. bushel, or $\$ 8$ more than a year ago.
Timothy is also scarce, and dae alers quote $\$ 8$ to $\$ 11$ per 100 lbs., $\$ 2$ more than

$$
\begin{aligned}
& \text { a year ago. } \\
& \text { Hides.-Th }
\end{aligned}
$$

Hides.-The only change was in lamb
skins, which were $\$ 2.15$.

## Chicago.

 and heilers,
to $\$ 10.50$.
Hogs.-Light, $\$ 6.45$ to $\$ 6.95$; mixed, rough, \$6.35 to heavy, \$6.55 to \$7.10; rogh, $\$ 6.35$ to $\$ 6.65$; pigs, $\$ 5.60$
$\$ 6.50 ;$ bulk of sales, $\$ 6.70$ to $\$ 6.95$. Sheep.-Lambs, native, $\$ 7.40$ to $\$ 9.75$.

Judges for Ottawa Winter Fair The following judges have been ap-
pointed for the Ottawa Winter Fair, to
be theld in Ottawa, January 18 to 21 . be

Imported Clydesdales-D. Montgomery dales-Jas. Torrance, Markham, ont hires, Thoroughbreds, Percherons, stand-ard-breds, Hackneys and Ponies-Robt Braham, Toronto, Ont. Beef eattle-J Flatt, Hamilton, Ont. Dressed Car casses-Prof. G. E. Day, Guelph, and E. woolled breeds-J. M. Gardhouse, West den, Brooklin. Poolled breeds-Wm. DryLondon, L. G. Jarvis, Grimsby; G. RobBaldwin, Ottawa, Oke, London; W. C Rochester, N. wm. Barber, Toronto; J. S. Porter,
Toronto. Seeds-W. J. Squirrel, Guelph. An additional class, which will be o added for the coming show, since the prize list was issued. The prize $i_{m}$ this Class is a sterling silver trophy, value Yards, Toranto, thy the Union Stock Manager. This class is as follows Trophy:-For the best four lamber Silver breed, grade or cross (all lambs comprising the pen to be the same breed, grade
or cross). All pure tered in the Canadian Flock Books, and to be bred in Canada, and bred by the will be required to make a regular entry

In school, a boy was asked this ques
tion in physics: "What is the difference between lightning and electricity?" And he answered: "Well, you don't have to pay for lightning." "We
gave a job in the store last week is ${ }^{\text {crook }}$
ance, 'rou should not judge by appear
"' " a
Bacon-"Did you say he awoke one day Egbert-"No; I said he dreamed he was famous and then woke up.'
"raising the wind" is what a religious
"raising the wind" is what a relitious
paper describes as "Bome collection-bo
The inventor hails from Oklahoma. a member of the congregation drops a twenty - five-cent piece, or a coin of larger value, there is a silence. If it is
a ten-cent piece a bell rings, a fivecent piece sounds a whistle, and a cent fires
a biank cartridge
 xtra good No: 2; $\$ 20$ for No. 2, and 18.50 for No. 3, per ton, ex-track.
Soeds.-Seed of all kinds is difficult to btain, although alsike was more nor aal. Dealers were paying $\$ 7$ to $\$ 10$
or bushel of 60 lbs. for it , at country pints. Red clover is almot impousilhy ealers were bidding exceedingly scarce. $\$ 10$ to $\$ 13$ per
ishel, or $\$ 8$ more ishel, or \$8 more than a year pog. \$11 per 100 lbs ., $\$ 2$ more than Hides.-The only change was in lamb

## Chicago.

 Cattle--Beeves, $\$ 6.10$ to $\$ 9.75$; cowsid heifers, $\$ 2.85$ to $\$ 8.40$; calves, $\$ 7$
 ugh, $\$ 6.35$ to $\$ 6.65$; pigs, $\$ 5.60$ 50 ; bulk of sales, $\$ 6,70$ to $\$ 6.95$.
Sheep. - Lambs, native, $\$ 7.40$ to $\$ 9.75$.
udges for Ottawa Winter Fair.
ho following judgee have beon ap-
inted for the Ottawa Winter Fair

mported Clydesales-D. Montgomery
tish Columbla.
Canadian-bred Cly Cly les-Jos. Torrance Mankhan, Dant
ires, Thoroughreds, Percherons, stand-l-breds, Hackneys and Ponies-Robt

 Archibala, Ott Owa.
Sheop, Long otled. breds-J. M. Gardhouse, Weston.
ep,
Short-woolled
broeds-Wm. Dry Brooklin. Poultry-Wm. MeNeil
'don; L. G. Jarvis, Grimaby;
son, Ottawa; R. Oke, London; w. hhester, N. Y.; W. H. Reid, Augenstein
Bing n additionas-w. J.' Squirreel, Guelph at interest to class, which wreeders, has bee ed for the coming show, since the
ed
eist was issued. The prize $i n$ sis a stering silver trophy, value ds, Toronto, thy the Une Union Stock
d. E. Good,
dager. This class is. nicn Stork Yards, Toronto, Silver
iny:-For the best Phy -- Fr the best four lambs, any
grade or cross (all lambs compris che pen to be the same breed, grade
cross). All pure bede din the Canadian Flock Bookss and and
de bred in Canada, and brod by the bitor. Exhibitors, entering this clas as
be required to make a
school, a boy was asked this ques-
in physics :
"What is the difiterin physics: "What is the diffor
between lightning and electricity ? od he answered: "Woll, you don"
fear that young man to whom
a
job in the store last weak
" should not judge by appear
am judging by disappearance in this
con-". Did you say he awoke one day
nd himself tamous ?"
bert-"No; I said he dreeamed he was
us and then woke up."
latest American church device for
ing the wind" is what a religitious
in ing the wind" is what a religious,
dise
describes as "some collection-box." inventor hails from orkahoma. If
mmber of the congregation drops in
enty five cent tica
 sounds a whistle, and a cont fires
and

The Adventurer. He did not come in the red dawn And all the long, bright highway Lay lonely to the moon.
And never more, we know now.
Will he come Will he come wandering down
The breezy hollows of the hills Into the quiet town.

For he has heard a voice
A starry-faint "Ahoy !"
Unquestioning after joy
But we are long torgetting
The quiet With looks of love and gentle' scorn

- 0 orely, sabiy blemt.

We can not cease to wonder,
We two who loved him, We two who loved him, how
He fares along the windy ways His feet must travel now. But we must draw the curtain And talk, here in the firelight Of him benoath the ine starg -Odell Shopard. in "The Bellman (Minmarpolis).

To a Canadian Lad Killed In The War
puncan Campbell Scott, in University o noble youth that held our honor in keeping,
And bore it
fame,
face How shall, we give full measure of ac. To thy slaim sharp labor, thy immortal reapFor though we sowed with doubtrul Thou hands, halt sleoping, $\begin{gathered}\text { in thy } \\ \text { vived pride }\end{gathered}$ And brought it in with shouts and With exultation, trumpets, with flags flashing and leaping.
Let us bring pungent wreaths of baleam, Tendrills of tendid-flowers, lovelier for thy And deek a sylvan shrine, where the
The moonlight, with lilac bloom, and the
of suns unwearied; all unwithered, wear-
Thy $\begin{gathered}\text { ing } \\ \text { valor } \\ \text { hearts. }\end{gathered}$

## Browsings Among the

 Books.the escape from the common[From "Ourselves and the Universe, by James Brierley. Published by Jame Clarke \& Co., 13 and 14 Fleet St., Lon-
don, Eng.-"Clarke's There is the stofy of a man of leisure who found his future an endless vista, as
it seemed, of days in which he would go it seemed, of days in which he would go
through exactiy the same round of getthrough exactly the same round of get-
ting up, dressing, feeding, and going to ting up, dressing, feeding, and going to
bed again-too appailing in its monotony, and so escaped from it by suicide. In such a position we could sympathize with
his feeling if we did not proceed to his his feeling if we did not proced to humn extremity. One of the greatest or herisoned
burdens is the sense of being imprin by the commonplace. A man- spends his of a pin, or in totting up columns of
figures, or in selling calico. His wifo,
meanwhile, is occupted with an incessant be carted round the planet by contract
cooking, cleaning and arranging, which is. after all, a thin, surface buisiness, cooking, cleaning and arranging, which is. after all, a thin, surtace busine
has all to be begun over again to-mor row. "If only there were a respite, and man, nor put insight into into a a chance of travel and change !" They take it for granted, and are bere voic
ing the almost universal feeling thet the ing the almost universal feeling, that the
escape from commonplace is simply, an afffair of change of circumstances.
How great an illusion this is will be How great an illusion this is will be
patent to anyone who has the opporpatent to anyone who has the oppor-
tunity of studying his fellows under
widely varying conditions. Riches in widely varying conditions. Riches in
themselves furnish no escape from the commonplace. They can purchase in-
numerable things, but not this. There numerable things, but not this. There
is a mob of rich poople to day, and they is a, moo of rich people to day, and they
are, on the whole, less interesting than
the poor. Their money can, if they choose, buy them laziness, which they
share with the tramp, share with the tramp, and to about as
good a purpose. It, can secure the in-
dulgence of animal sensations with aill dulgence of animal sensations with all
manner of luxurious accessories. But some fatal laws block the way to fel.city
along this line; the law of familiarity along this line; the law of familiarity
which robs the sensation of fts first Which robs the sensation of its first
favor, and the laws relating to excess which exact the grisliest of after penal-
 home, imagine, we haver just said, that a sure escape from the commonplace is
by travel and change of scene. It is enough to rub shoulders with the average
globe-trotter to be disillusioned on that head. He carries, alas ! the common-
place everywhere about with him. We call to mind how, at a Swiss hotel,
when an expedition was being planned, a


A Belgian Scouting Party in Flanders.
Photo by Underwood \& Underwood.
Britioh tourist who was listening ex- ture of death, are Nature's stern refueal claimed, wearily, "II suppose it is just to man to permiltibimse': to bo trivial.
the same there" as here, a lot of moun- And with this plain hint from hee tains and that kind of thing !" The quarters to start us, wo may now profitAlps awakened in him absolutely no ro- ably turn our attention to the ways in sponse. He wanted Paris. It was a whioh, imprisoned as we mogt are in our Salamis and the mountains that look on yet individually escape fositions, we may Marathon in full view, grumbled in our There is but one way, and it is an ln ear. "I can't for the life of me see what
people find to rave about in these places; lot of harren rocks and tumbledown ruins !" One meets Americans, spending hell their holiday in railway carriages,
rushing Europe and Asia, the driving rushing Europe and Asia, the driving
power: behind them the fear that their neightors in Philadelphia or Indianapolis will want to know if they inspected this
mosque or saw that picture, and will
triumph over them if they did not.
man, nor put insight into a blockiesd.
So far, then, as at present appears, the business of escaping the commonplace is a difficult one, out of the reach apBut that would be a hasty conclusion. The most important factors in the problem have not yet been touched. To be-
gin with, Nature does not seem to have gin with, Nature does not seem to have
organized man's life here with a view to
its being a purely humdrum organized man's life here with a view to
Its being a purely humdrum affair. That
she placed him in such an astonishing she placed him in such an astonishing
universe, and, with a reation to it ao universe, and, with a reation to it so
marvellous, is in itself the answer to such a supposition. When, a million off the track of his fellow mammalian primates and began to add to his brain-
power, while these others were merely power, while these others were merely
developing limb-power; developing limb-power; when, bit by blt,
she brought him along this froeh line until, with a body in the same zoological kingdom as the chimpanzee, he attained workroom and play-place, sho infinity for workroom and play-place, she gave notice
that here was a being whose experience
and destiny were to be certainly and destiny were to be certainly no common. Nor will she allow any one of
us to forget this. The knowledge of cood and evil that she rubs into us; ov fact that we can never get through day without some rebuf, some tangh a circumstance; and, nost striking of all, every mother's son of us, for wind-up of
our present career, the tremendous adven-
 more refined, more open-eyed, dees purer. environment, hecome more wonderful more wholly recomed more wonderful vulgarity. There is no need to travel a thousand milles in search of the sublime. A starry night is vastly more
sublime than Niagara. Seminel Drew the Cornish shoemaker, without Drow from his last, sounded the deeps within
him to such purpose at him to such purpose as to produce an astonishing work on the soul. Let any
one to whom the hedgerow by his doo one to whom the hedgerow by his do
has become common, take with him
his next vielit thero botany, and he will find his hedge bot
tom grown mirreilo tom grown miraculoug to him, The
moment we take oureelves in haad this wey and realize that the whole question of change, whether it be of scenery or
ond a questance, is from besiming to
of of our. own interior, and
of what goes on them has begun, Maeterlinck, in his "Wistom in what he saye of Emily Bronte. Here,
says he, is a young says he, is a young woman, daughter of
a country clergyngan, without means or
the excitements of travel and society who never had lover or husband or
family of her own. And yet, as her family of her own. And yet, as her one
wonderful book (Wuthering Helghta)
shows, ahe lived shows, she lived out all theso experiences in hor own soul and' in their highest
torms. The world for us, let us repeas,
is our own finterior Wo are not all, it may be said, con structive geniuses like Emily Bronte.
Eut if we cannot speak we can at least Usten, and in the great literatures which
come now to our doors almost gratis, we may at any hour escape trom mean
surroundinge into the rarest soclety, it it Horroundinge into the rarest society, If
Homer and Socrates and St, Pavl and
Shakespeare are of our elrele, we can Shakespeare are of our circle, we can
dispensee quite easily with an invitation to the next Lord Mayor's dininer. We We
have touched literature bere, however, have touched literature bere, however,
not to dwell upon it, but for something
to which it leads un, The power of a to which it leads us, The power of a
great book, we soon idiscover, is the
power of the personality which it enshrines. What porvonality whits is that we en-
there in contact with a soul, and the there in contact with a soul, and the
more soul there in in the book the more more soul, there la in the book the more
we are moved by it. A treatise of mechanics is not literature eimply be
cause this personal element is lacking.
is is here that If is here that literature helps nos to ture, its whole emancipating power, lies nithis conteot with porsonality: It And it is because of its revelation of the is for us the overlasting deliverer from the commonplace. The humblest peasant
whe has felt God stepi stionee. into the
world's aelecter circle. world's seleoter circle. He can never be
more important, to himself, common or unclean. the supreme delliverer from the commonplace. It is, ns Joubert has put it "the poetry of the heart"; it is for overy man the open door into the infa mpecial instruction to corollary the religions teacher of whatsoover nome. What his fellowman requires of him, what, indeed, world, is that ollef relsen d'etre in the fellows he eacape the commonjlace. And he is to do it, not so much by genius or by learning, as by onlargement and
oleansing of his interior 11 fo , by the in
filtration into it of the ilfe of Cod. There is something pathetie beyond In the eagerness with which they recogspeech and life. By a sure finetinot thay circumstances that is really alfective titude towards them ountal and moral at that Madame. Swetchine arrived as the tom. there is win life oxperience, "At botinto there is in life only what one puts
experience still wider Montague, from an the aphorism, "External occasions take the aphorism, "External occasions take
"Art thou Brother Franols of Assisi said a peasant once to the saint. "Yes."
"Try, then, to be as good as all think thee to be, because many have great aith in thee, and therefore I admonish thee to be nothing less than people hope
of thee." Yes, truly ! Here spoke the deepest heart of humanity, and so speaks
it to-day. Our chief debt to our fellows it to-day. Our chief debt to our fellows
is the obligation to be good, to live the highest life we know. A child-like, Godloving soul, that begins its life atresh every morning, whose history is that of a perpetual soaring, is the most refresh ing, heart-healing thing that exists. Be
neath the world's cynicism lives the consoiousness that its chief treasure, it rarest product, its pearl of price is th saint's supernatural life. When humanit
aees this plant growing in the wildernes it takes heart in its journey ny, knowin it is not forsaken of God.

## Hope's Quiet Hour.

## Buying Up the Oppor

 tunity.Sook tharefore carrefully how ye walk, not as unwise, but as wise suying up
 To-day is added to our time, Yot, while we speak, it glides away. For where 1 to resteridey ? For where, alas $t$ ti yo
There. every day in turn appeara, To-morrow h-Oh, 'twill never be,
If we should live a thonsand years.
The year just passed has been the most tremendous one any of us verer experi-
nced. The nationis have been filled with distress and perplexity, men's hearts have hillod them for foar, and tor looking atter those things which are coming on the earth. Our Lord warned us of the
coming of the day of world-wide distress, mit tord us what we were to do when nen's hearts failed for fear: "When hese things begin to come to pass, then ook up, and lift up your heads; for your
edemption draweth nigh..
In our text e are told to "buy up the opportunity,
 Instead of looking forward obeerlessy, Which mail Ite ahead, leot us remember that our orders-as Curistians-are to "Yook
p and lift up our heads," and use to up and lift up our heads,", and uge to
the full our "opportunity",
Our arst business-according to our Lord's
mand-is
toarless
gladness.
In
 ehall sulfer the second death, and frrot
on the list come "the foartul, and unon the list come "the fearful, and un-
believing." Those who are umbelieving may well be feartul, not knowing what
terrors the coming year may bring; but cerrors the coming year may bring; but
those who belleve in the power and love of Goo-in the care of our Heavenly Father, the abiding Presence of our Elder
Brother
and
the
Holy
Ghost
the Strengthener-cannot be foartul or troubled. St. Paul set his face to go to Jeruaalem, not knowing the thnggs that and affictions waited for him. "But,"
he declared cheertuly, "none of these he declared cheerfully, "none of these
hings move me., neither count 1 my lite things move me. neither count I my life
dear unto myself, so that I might inish

 1 our opportunity to show the troubled able to give us light in the darkness and
lot tin the midet of sorrow. Whatever else we do in the year 1916, at least let as be happy. We wish each other "A Happy New Year," ${ }^{2}$-and it is impossible
to may the familiar words hopelesaly . We groet the New Year cheertully, and look
up expectantly to the Giver of all good, up expectantly to the Giver of all good,
knowlig that the world and its troubles knowng that the world and its troubles
are very near His heart.
He is able to are very near His heart. He is able to
bring, wonderful good out of these "evil
dawe" of war, able to make the New Year grander and better than any year we have yet seen
"Yes. 'tilis dawning, dawning, oh, be
Greet glad wath alowing welcome, not a
tad . . . Thankful - hearted

We are to "buy up the opportunity. instead of idly letting it slip throug our fingers. Others are doing great content to seak our prosperity our own comfort and pleasure, when there are numberless ways of helping our suffering fellows? It is not necessary fo us all to dash eagerly to the firing g line there, an additional burden for anc trained workers to carry. Iet us buy up our own particular opportunity, instead of wasting the time lamenting tha
we are not trained nurses if we are not called to the front, we are called to serve at home.
Do you remember those three words,
"as he journeyed," in the parable of the "as he journeyed," in the parable of the
Good Samaritan? Our Lord's parables are short and clear-cut; every word tells. Why, then, are those three words in the
parable? At first sight the story seems complete without them. The hearers new living in that da werous robber infested region between Jerusalem and Tericho. Unless he had been on a journey he would not have been thene at all.
Perhaps those three significant words were intended to teach us that our business is with the duty, the opportunity. the neighbor beside us in our journey through life. The Samaritan did not go
out of his way to find an opportunity oulping a needy neighbor-notice that the "neighbor" was by race a deadly enemy he simply made the moat of the opporunity lying right in his path
Do you remember Dickens' caricature of
woman who was so busy thinking of
the heathen in far-ors lands that she had
o time to be interested in her own for


An Australian Troopship Leaving Sydney for the Dardanelles. Gay-colored streamers were used with a novel purpose in Sydney, Australia, when
the contingent from the Antipodes sailed ahoord the transport for service in the contingent from the Antipodes sailed aboard the transport for service in the
Darddanelles. After the last warning had been given and all those who had no business on the transport had gone ashore, the soldiers threw great rolls of multi-colored streamers to their friends on shore. These streamers, the friends, the dock, and the distance had become snapped. The picture was made just before the hawsers were cast off and the transport left the dock.-Photo, Underwood \& Underwood.


Don't you think we had better do the same? Let our New Year resolutions week. Plenty of opportunities for next vice will meet us "as we journey,", and our business is with them rather than with the apparently more interesting op-
portunities which God has placed along portunities which God has placed along
the road of somebody else. One thing is clear, we cannot glorify God, making our light shine clearly, if
we shoulder mone work the we shoulder more work than we can do
properly, getting our nerves overstrained and becoming irritable and impatient. peace of the home while we are trying to restore peace to the world? Eve trying
in these days carry on "business as usual,", we cannot that our Master waints us to secure more quiet times for fellowship with Himsellthrough us. may it may even be that He he
in her path ! But don't let us wor That is a low motive, and disastrous in ts influence on character. our actions will be far-reaching in it results. The Samaritan, had no idea that his kindly deed would be an object-
lesson to the world for thousands years. We have no reason to think that it was an imaginary tase. Many a man "fell among thisves" on that dangerous Levites hurried past on their way to serve in the Temple. Perhaps they con
gratulated themselves that they were being very zealous for the Lord, when they were really neglecting His business.
once heard of a self-denying worker who once heard of a self-denying worker who
was busy all the time with missionwork. Her own children were not "mothered" or taught, and her boys
dritted slowly but surely towards evil. The theart-broken mother at last woke to up the opportunity for influencing themthat she had chosen her own work and entirely neglected that which God had entruste
orders.
The Samaritan did not trouble himself arout the danger and diffeculty of caring consider that it was none of his business deadly enemy to his people-and he certainly never dreamed that his kindly deed would be an inspiration to the orld for all time. He did not wast ime in dreaming of the great things he
intended to do some day, but attended promptly and thoroughly to the oppor his way, "as he journeyed."
in the one thing to teach our ohildren merely profits or wages that matter, but the sense of responsibility and the powe
"What we have got to do is to make it clear to Germany that war does not pay, and that war never can pay. After
this war there must be Powers, including America and Japan which will undertake to combine agatins
any other Power which shail disturb the peace of the world."-J. L. Garyin then

Wild boars and lions still roam about in the reedy swamps and thick, oak ish soldiers under Ma, where the Brit ish soldiers under Generale Nixon and
Townshend are trying to win their way through to Bagdad.

Mr. Glen Curtiss declares that one be the establishment of tranisatlantic wil ship traffic. The machines built to mee the necessities of the war ane alneady fit for this service.
bo able to give the worla better service. Depression and everyday "erossness" often come from over-work-and they
bring dishonor on our Christian profen sion. Happily for us all, our orders are given
by the day. We have not been told by the day. We have not been told
what God expects us to do this yearwhat God expects us to do this year-
but, if we ask Him humbly and with but, if we ask Him humbly and with
glad willingness, $H e$ will make elear to glad willingness, He .will make elear
us what He wants us to do to-day.
"Hallow this coming year, dear Lord, That I may rest in Thee from day to Stay by my side. Thy loving glance can When fierce temptations make me sore Thy hand upon my head shall strengthen When $\begin{aligned} & \text { me } \\ & \text { human } \\ & \text { utterly }\end{aligned}$ strength would fail me

Safe in Thy love, I have no thought of But trust ' Thy mercy thro' the coming DORA FARNCOMB,

## Christmas Gifts

Costerday a sick woman said to me: worse all the time ?" How can I think so, when readers of the Quiet Hour afe constantly placing "gifts for the needy" Th my care? During the last week I
have received $\$ 1.00, \$ 7.00$ (especially for a Rescue Home), $\$ 6.00$ and $\$ 5.00$ for Christmas gifts to the poor. As or the wonderful box from the "Maple Lear" Sewing Circle, it seems to contain an infinite variety of useful garments. Yesterday warm underclothing for two little magic box and found exactly the things required. So it is nearly every daythere seems to be no bottom to that box. Thanks to you all, and A Happy

## Christmas Cheer

As usual, the readers of the Quitet Hour have given me the priviloge of helping to scatter their Christmas cheer. Since the
eginning of December I have received from them nearly $\$ 10$ ("for the needy") in donations ranging from one to seven lars apiege. Nearly thirty poor ta lies and sick people have been gladdened Advocate"-and I have still a small balance in your purse ready for a case of special need. I am doing my best to use the money, and other things you en-
trust to my care, as you would wish. Thank you, also, for the many persona okens of fellowship which you have sent May God give you, this coming year, th
happiness which earthly storms cannot happines
destroy.

## The Windrow.

 clear to Germany that war does no ests of Mesopotamia, where the BritAmerica is now threatened with

JANUARY 6,1916
THE FARMER'S ADVOCATE:
it has hitherto come from Europe, and
that supply is now stopped. Glycerine eathor-making, weaving, dyeing, copying
 nanufacture of nitroglycerine and dynamite.

An American electrical ongineor, Willia, Dubilier, has invented a tiny microphone by means of which the approach of aubmarine 20 miles away can be Mr. Dubiliter had gone to Europe a the invitation of the Allies to devise a system of harbor-defense against sub-
marines, and his microphone is now in marines, and his microphone is no

Sarah Bernhardt is to give a sertes of plays in America in the near future. The
meent report that she was seriously ill necent report that she was seriously ill
mes entirely unfounded. She is seventy was entirely unfe

The statue of Eros recently found by French soldiers when practise-digging in
the northern part of Lemnos Island, will the northern part of Lemnos island, wint here it was found is believed to be
ite of the ancient city of Hephestia.
"Conceivably the Germans will get cross the Suez Canal into Egypt; it to possible, even enough anisea, British pewer. It
will not affect
will not talke India, because Japan is will not take India, because Japan is pledged to defend India, if necessary, and
Japan is far nearer to India than GerJapan is far nearer to India than Ger many can get for many years. Germany
tas lost the war because there is now nothing that she can get which will perananently repay her for her losses, and the Provinces that she plans to take, ow bring with them immediate danger
and future perils." - New York Tribunie.

Otesiphon (pronounced "tes-i-lon"), nea Bagdad, where our troops are now oper lays caused by lack of water, was in it glory during the relgn of Khusrau, King
Persia, about the year 550 A.D. His of Persia, about the year 550 A.D. His
ampire extended from the Indus to the empire extended from the Indus to the
Red Sea, and large portions of Central Asia, and probably Eastern Europe, recognized him as Ruler. He built at
the city of Ctesiphon a splendid palace, the city of Ctesiphon a splendid palace,
of which the principal arch was 85 foet of which the principal arch was
high and 72 feet wide-now, of ourse, In ruins; he also encouraged iiterature, causing several Greek, Latin and San-
Bcrit works to be translated into Perscrit works to be translated into Per-
sian. And now, it it quite likely, there sian. And now, it it quite likely, there
will be a railway station at Ctesiphon within a few years, and Britishers on the way from Ostend to India in a through carriage will lean from the windows of the train to gaze on the palace of years ago !-T. P.'s Weekly.

The city of Salonika, the port on the re now concentrated, is the "Theossalonica" of the Scriptures. Saint Paul
visited it in A. 53 and year or two visited it in A.D. 53, and a year or two
later sent epistles to his friends there later sent epistles to his friends there
from Antioch. The city has passed from Antioch. The city has passed tured in 904 by the Saracens, and five hundred years later was taken by the Turks, who held it for five hundred years more. After many vicissitudes, it was during the first Balkan War. Its present population is of a very mixed character -Greeks, Mohammedans, Bulgars, Routo the many thousands of French and

The Ingle Nook.




## Work That is a Pleasure.

Last day we talked about work that
over-tires, -the over-work that deadens ambition and irritates the temper, and hat should be fought off and avoided, To-day, let us drive all that away with a wave of the hand, and talk about work hat is a pleasure,--or rather, perhaps,
o state the subject better, the pleasure A very dear found in work. A very dear woman said to me the hours after I have to give up work." And I just wish you could have seen her inspiration to you as he was to me, and is always. As the result of an accident she is a cripple, cannot walk at all, and goes about the house in a wheel
chair. But she keeps busy, and has a ace like a sunbeam
Now, surely her idea of work is the
right one. The trouble with all too many of us is that we have been brought ap from intancy to look upon it as a be done. Away beck in the years, some quite ofl-the-track theologian, or some well-meaning but sadiy-blundering parent or relative, began the bad influence by telling us the Garden of Eden story quite
iterally, explaining to us in solemn tones, while we listened in wide - eyed wonder, that because Eve took a bite out of a real apple and geve Adam mome, because a real wriggling snake told her
to, all the people on the earth since have been "cursed" by being compelled $t_{0}$ work. II hope the readers of this colmn all have intelligence enough not to make such a blunder as that,
and the good sense, if they do not understand the beautiful poem, to leave it alone until they do, and not murder its beauty and turn it into a thing of o
by misinterpreting it to childish eara. -Well,--that probably began the trouible. Afterwards, it may be, some thoughtless people kept up the mistake yy grumbling about work belore us, or olk "lucky"; and, without doubt, the blundering theologian and relatives emphadized it by continually referring to heaven as a place of do-nothingness. So
the seede were planted deep, and the noxious plant grew. Suggestion is a powerful force anywhere, but especially upon children. Acting upon us, the foollsh we came to maturity looking upon work, we came to maturity looking upon work, clothes and soiled hands, as a grim ecessity, rather than a pleasure, a privi loge, and a blessing.
Now, work is work anywhere, indepen-
dently of hands or clothes. Nothing worth while is really easy, and we would be very cowardly and spineless indeed if we wished for a life-occupation that
would be. It is by struggle and by would be. It is by struggle and by
overcoming that we GRow. The older become the more clearly do I see that the whole question of our real rest and happiness depends. upon our attitude of mind towards that which we have to do.
The individual who can every day wear fine clothes and exhibit white hands, may really be very miserable if he has not found the work for which he is itted the one who ploughs, or works in a greasy machine shop may
lark if he has found his.


A Chinese Princess Who is Travelling in America This is pretty Princess Jue quon Tal, ing a tour of the United States, minus the usual chaperon accompanying women of China who travel. She is posing
espeoially for this photograph in her suite at the Hotel Astor, and seems women with the fashions of American fuemently. She Princess speaks to New York from San Francisco, where she had been visiting
the Exposition, to gaze upon the wonders of New York, although warned by her parents to keep away from the wicked city.-Photo, Underwood \& Under-

So, it seems to me, the whole question resolves itself into this : that we find our own work. Upon that deppends our happineps and our usefuiness. We Whet
are made of very different mould. What one is fitted for may be the, very antithesis of what is suited to another, and so, for this reason, the most important
question in the life of any young man or question in the life of any young man or
woman is, "What can I do ?"-Not "How can I get the most money ?" or "Whom shall I marry ?" but "What can I do
BEST, and so with most real pleasur BEST, and so with most real pleas
to myeelf and profit to the world ?" Thers is not a soul in the world, of normal mentality, that is not atted for
some work. Having found it, the rea-
son for living begins to dawn, and lite
becomes becomes a restrul, happy thing-despite
the few necessary knocks that come for our spurring. In the words of Bouck White: spurring. In the work is no industrial basis. It hates an idier, an affectionate only towards a toiler. Labor finds its richest requital, not in the
thing done, but in the doing of it wher thing done, but in the doing of it. Work
is the angel that is given charge over us, to keep us in all our ways.'
-And again, Will Levington Comfort
(in last week's first-page extract which, (in last week's frst-page extract which, I hope, you read), "Those who are best but a task."
-And again, Thomas Carlyle: "Mlested
is he who has found his work; let him ask no other blessedness. . . One monste
there is in the worid, the idle man. there is in the worlh, the lound his work is king over something."
-And Ruskin
-And Ruskin: "It is only by labor that thought can be made hoalthy, and
only by theught that labor can be made
happy; and the two cannot be separated with impunity. . Though you may have known clever men who wore indolent,
you never knew a great man who was so and when I hear a young man spokn of as giving promise of great genius, the
first question I alk about him always to Does he work ?
One might go on quoting for an hour.-
Surely the thing these great minds-the great minds of great workers-have gone great mindis or great workers-have gone Let us close this with one more, from
the cllustrious and well-beloved Phllips Brooks: "No man has come to true greatness who has not felt, in somi degree, that his life belongs to his race:"

- We shall only be here for a few short -We shall only be here for a fow short
years, and surely we have been placed years, and surely we have been placed
here, "not for what we can get out of life, but for what we can put into it,
This does not mean that we are to he mere sacrifices for others, floors upon Which others may build while we stay when they betome abject slaves to thei children. We must, rather, be wise,
realizing the truth of Kant's gospel, that no human beling ought to be used as as mere means to the end of another, buy
should be really an in himeelf. By developing our own individuality to the
higheat point, and using our development
wISgict true work in the world

> Much of the digcontent in regard to doubt due to the idea that abome, is no of work are menial, others "Ime," of "aristocratic." But a few of the very
greatest minds have divined, and the greatest mindis have dis alowly beginning to make way
flea is generally, that no work is really mental that everything depends upon the man
behind the work, You may find an abbehind the work, You may find an ab-
solute gentleman ploughing in a feld, o.
$\mathrm{m}_{\mathrm{a}}$ a very poor houne, and you may fin In a very poor house, and you may fin
an absolute vulgarian in the midst
luxury. If one faile to percelve the dif ference, it must be becaume onesell is greatest philosophera have been ploughed and mended nhoos. Beffnement work that one does.-And there ar people to-day who are proaohing thi the Craftsman, I read a very fine article by Mrs. Havelock mills, in which she vill, "The day will come when no stlsm will rest on any necessary worlk" - An
gain, "Fe that is greateot shail b the servant of all,' Is not the sayligg of decadent or a madian, but of on civilization muat ovolve." With this le us conclude. For who can ooneider, the Cory, the Carpenter of Nazareth, without

recognizing that it is possible to rea
the very
zenith of charcterl ity, end still be "servant to and." struggling folk cannot do that yet; wo can only keep on struggling, but there
are millions and milions of years ahead are millions and millions of years ahead
of us for growth, are there not r-And of ua for growth, are there not r-An
who can say what we may yet accom
plib who can sal what we may yet
phish ? "All thinge are possible.
the best thing in life Dear Junia,-As we have always en.
loyed your nowsy letters in Inglo Nook. loyed your newsy leters in Ingle Nook,
and thank you for them, I come now and thank you for them, I come now
with,..mine on "What is the Beot Thing in
Lite." In my estimation, the best thing Lite." In my astimation, the best thing
in ift is a good home training by in iffir is a good home training by
good tather and mother. If every one got a good home training there would be oo war to-day, but peace and goo taught to love one another as we aro not
No administration can pertonally harm No ail ouristration can personally harm Godly. No statesmanship or tegislation can save uo statesmanship or legislation the abodes of ignorance or the restingplace of profiigacy. The home rules the nation. Nothing is so effoctive in Atting
us for usefulness here and for heaven herearter, aseauness here and or herenven
lighted happy, Christlighted home. The memory on, Che beeu-
tiful and happy home of chilidhood to richest logacy nom man chilahood is the richest logacy any man can leave to his
chhidren. The heart coan never lorget its haluremed infuencees. Such a norer forget is a
Constant constant inspiration for good, and as constant a restraint from. evil. As Icny
ast hoy is anchored to mapy, Chris
tian home in hio titan home in his youth, and the remem-
brance of it brance of it in his manhood, he is rea-
sonabiy sate for this hife end the life to sonably sate for this life and the life
come
Well Wong, doar Junia, I will not write a
lother so
othere
 to all.
Huron $\qquad$
ANOTHER OPINION Dear Junia and Ingle Nook Friends, to the Nook, that I am sure almost everyone will have forgotten that I ever
existed. But did you ever notice that existed. But did you ever notice that
when you do not write that promised When you do not write that promised
letter you think ever so much oftener
about the one you should have written to? Twinges of conscience, I suppose, make us resolve to write oftener in
future, but we find ourselves as neglect ful as ever. But whatever would we do
witnout all the little helpful things which kind hearts send to "The Advocate"? And don't you think that the best thinz
in life is tne loving spirit that maize us 'want to help othera? Because, "It the spirit in which you do,
the spirit in which you do it. are doing good, and it is dople think ther selfish reesons, and when this is the case it spoils that beautiful, loving, unselfish spirit that should really prompt the
good act or deed. A kind act or word good act or deed. A kind act or word
has often lifted a, soul out of the
"Slough of Despl" on the right way di" and put that so remember it was ajain. And don't yo doing good? It would seem now, about
there is such a shadow over the caused by the present war, that the thought uppermost in every mind tould
be, "Whom can I be of help to?" For after all, the thing which should trouble
each individual most is which concerns the soul of him or her-
sell, or one's fellow self, or one's fellow brother or sister.
And don't you think that home-makers would try to ee things in
this light that we would elimingt great many things from our work that make us feel as though we were carrying
the burdens of the whole fanily own shoulders? So many little thour over which we worry are not for the higher good of the family; indeed, the higher is often shut out altogether by
the material. We need to be awakened to our ideals quite often, and, as Junia
has suggested this thought, shall we not let her have something for her we nugges-
tion? I, for one, have ast tion? I, for one, have almost sugges-
worrsing. But it will come still, worrying. But it will come still, per-
haps, because I let it go too long before
trying to conquer the habit all try to forget what we think we have
cause to worry over in helping someone
and a happy New Year.
YOUNG HOUSEWIFE Simeoe Co., Ont

## Midwinter Cookery

Broiled Beefsteak.- Wipe the beff with a
damp oloth and trim off superfluous fat. Grease a wire broiler or toaster with clear fire, turning every ten seconds for the first minute to evear the surface and prevent escape of juices. Brown on oth sides, remove to a hot plidtter, very hot.
Flank Steak with Onions-Plece in Pan a flank steak cut from the thick end
of the flank 1t inches thick. Cover with two inches depth of onicns sliced and seasoned. Finally cover with thin
slices of salt pork and add one cup water. Cover closely and bake in slow oven or a fireeess cooker all after-
noon.
Just before serving Just before serving remove the
cover and brown. with a napkin pinned round.
Roasted Hamburg Steat
freshly - chopped Hamburg steak add silices fat salt pork finely chopred, it cup beaten, I teaspoon salt, and a dash pepper. Shape into a loaf place rack in the dripping - pan, dredge with pour, and arrange thin strips of fat salt in a hot oven, basting every 75 minutes at first with hot water, then with the at in the pan. Serve with gravy made Ròast Rabbit.-Prepare 2 young rabof 1 quart soft bread crumbsing made spoons shredded suet, 1 trumbs, 8 table chopped parsley, 1 egg, pepper and salt, and 1 cup stock or hot water. Tie the
rabbits in place, cover with bit breaklast bacon, and roast in a a brisk the sauce, put a calf's liver into sauce-pan with 3 sprigs parsley and a
pint, of beef stock, and simmer for 20 howl. Mince the liver the broth into Melt 1 tablespoon butter, add 1 table spoon flour and let it brown. Pour in
the broth from the liver and cook until
it spoon currant jelly, salt and pepper to spoon
taste.
Bruns
and
Brunswick Stew.-Cut up a 4-lb. fowl and cook it with a sliced onion, \& lb .
bacon, and boiling water ${ }^{1}$ beans hours. Then add 1 pint parboiled corn. Whe, if possible), 1 pint canned
with the beans are done, season with salt and pepper, and add 1 table-
spoon finely-chopped parsley. ${ }^{\text {Simmer }}$ very slowly for one hour.
Baked Baked Carrots.- Boil the carrots until nearly tender, skim them and lay them in
a baking-dish. They should be cut in halves. Pour over them enough stock
to nearly cover them, spoon each of butter and sugar, and a sprinkling of salt. Bake until the car-
rots are delicately browned. Always add a little sugar to any dish of carrots. carrot soup.-Cut 3 or 4 medium car-
rots into small pieces, after washing and
scraping scraping. Cook them in a cupful of
stock until very soft, then mash well stock until very soft, then mash well.
Return to the saucepan with 2 more
cups of stock, lump of btock, a teaspoon sugar, and size of a walnut, Serve
with bread, buttered, cut in dice, with bread, buttered, cut in dice, and
toasted in the oven. Cream of Pea Soup.-Drain 1 can of sugar, and 2 cups cold water, and sim mer 20 minutes. Put through a sieve,
reheat, and thicken with ter creamed together. In a separate
dish have 2 cups milk. it, and add $\frac{1}{1}$ teaspoon hanion juioe, then add to the peas. Serve very hot with a tablespoon of whipped cream on top
of each. This is nice for tea with bits of each. This is nice for tea with bits
of buttered toast or biscuits. core without paring and fill with supar adding lemon peel and spices if liked
Put into a baking - tin water, and bake. Serve with whippe cream to which sugar and lemon are
added. Steamed Corn Bread.-One-hals cup soaked, stoned and drained prunes. Add
to them 2 cups sour milk, 1 cup sweet
milk, 2 cups
cup Graham flour, $\ddagger$ cup molasses, $\ddagger$ cup teaspoon salt, 1 teaspoon soda dissolved in a little of the milk. Mix very thor-
oughly, put in a greased dish and steam
very steadily for four hours.

## The Scrap Bag

a laundry hin
$\qquad$ in half-dozens to a piece of white rag and pin the rag to the line. In this
way they can be put out more quickly, and there will be no risk of tearing
them when taking them of the line, as them when taking them of the line, as
so often happens when they become so often happens when they become
frozen. Heating the clothespins before going out will help to keep the hands going
warm.
handy invalid table, If your ironing - board is of the that has the adjustable, crossed logs, lower it to the right height the next
time you need an invalidds time you need an invalid's table and will have as excellent an invalid table as you could desire.

SQUEAKING HINGES.
squeaking, oil them hy a feather dipped in some linseed them a feather dipped
to clean doors.
To clean finger - marks on doors or
other painted or varnished wood ther painted or varnished woodwork, with ha bit of white flan oil, applying it will disappear like magic, and the paint will not be injured.

CARE OF EARTHENWARE water, let come to a boill and boil for 10 minutes, and it will not be so likely

GLASSES THAT STICK.
Wether, put cold water in the stick to-
The inner one will contract, while the
will separate.

## Tack USE FOR OILCLOTH. <br> table. The stripes will ove the sewing useful in getting a straight line very

To KEEP STOVEPIPES CLEAN it is said that burning potato parings from forming in the pipeserant soot parings, and burn once a week. The
pipes will not have to often. Burning old scraps of zinc is is
said to have the

Make mheets NEW SHEETS. will be plenty of material for then there the head and foot.
to save basting meat. With a rind saved roast a joint, cover it will save and cook with it on. This
A soup-stock *
Into a large saucepan put all the
scraps of meat that are difflcult to con therwise, also water, put on a tight lider with cold very slowly to a boil, then draw the pan back at once and let simmer very
gently for three gently for three or four hours. When
all the juices have been then off the liquor have been extracted, strain off the liquor and keep it in a cold place
to be used as necessary.
to Clarify
TO CLARIFY FAT.
Every housekeeper who wishes to econ- Mining-stock Promoter-"wh
omize makes certer
Every housekeeper who wishes to econ- Mining - stock Promoter-"Where can
omize makes clarified fat. It is useful
Hor making cake, gravy, for adding to The police are coming !" for making cake, gravy, for adding to
all seraps of fat, and trim all bita of ed meat off. Use a heavy saucepan with plenty of cold the fat in and cover better. Bring to a boil over a hot fire and when it has boiled 10 or hot firo
utes, remove the minutes, remove the scum, then draw min-
kettle to one side kettle to one side and let simmer, stir-
ring it frequently. If the water, away during the first 2 or 8 hours boils more water, but do not add water alter the fat becomes oily. The fat will ro quire 6 or 8 hours to clarify. When and shrivelled: let stand for be brown to cool slightly, then pour off the fat through a sieve into a crock.

## JELLY HINT.

A pretty idea for jelly (made of jelly small moulds, then arrange make it in circle in a dish and fill the center witb something else. For instance: (1) the center. (2) With whipped cream it the center. (2) With chickon jelly, put
parsley around the outside edge and beotsalad in the center. (8) With tomato jelly, put lettuce around the outside and

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0
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When Cooking vegetablers,
When cooking vegetables, remember water and drain it off is to waste of great deal of mineral salts that are very ittle water as possible, Cook in just as ticable-as with onions, artichokes, vegeable oyster, parsnips, etc.,-let it boil off pretty well, and use what is left in
making' a milk sauce. Use salads of raw vegetables often, and so secure a proportion of the "vitamines,", needed by
the body, but destroyed by heat of $\mathbf{1 2 0}$ degrees. Potatoes are of high value as logrees. Potatoes are of high value as re better of their food value. They better than white.

## The Dollar Chain

Farmer's Advocate and readers of "cThe for (1) Belgian Relief; (2) Soldiers' Com forts; (8) Red Cross Supplies. 24 tontributions for the week 1 rom Dee. W. B. Grace, Toronto, \$1.50; A Friend, J. F. G. B. E., $\$ 1.00$; Wronto," $\$ 2.00$, strong, R. 2, Clarksburg, Ont., $\$ 1.00$ Arthur Richardsoñ, Embro, Ont., 50
cents; Robt. Chaklin, Kincardine, Ont. Amount
edged
edged .........
Total to Dec. 31st............... $\$ 1,989.10$
Kindly address contributions to "The London, Ont

## DISCIPLINE.

unquestioning oboman demands instant and dren. One afternoon a storm oame up the thep leading to the flat root of the
"But, mother," began John.
"John, I told you to shut the trap !"
"Yos, but mother-"
All, right, mother, if you say so-
Whereupon John slowly climbed the later the family gathered for dimner, hours Aunt Mary, who was staying with the other, did not appear." The mother did answered the first many questions. John Mother. she is on the roof."-New

Chief Clerk- "Get into the card
ase. I derk-"Get into the card-index

Chain

Fashion Dept.
HOW TO ORDER PATTERNS. Order by number, giving age or meaeurement as required, and allowing at east ten days to receive pattern. Also Price ten cente PER PATTERN. If two aumbers appeat for the one suit, one for coat, the other for skirt, twenty cents must be sent. Address Fashion DepartHame Magazine," London,'Ont. Be sure to sign your name when ordering patlarns. Many forget to do this.
When ordering, please use this form :-
Send the following pattern to
Name.
Post Office
County ...
Province
Age (if ohtld or misses' pate...........................
Age (if ohlld or misses' pattern) .............
Measurement-Waist, ......... Buat, .........
Date of insue in which pattern appeared?


8806 (With Basting Line and Added Seam Allowance) Blouse with Shouldcr Piece, 36 to 46 bust 8788 (With Basting Line and Added
Seam Allowance) Five-Piece Skirt, 24 to 34 waist.

THE FARMER'S ADVOCATE.


## Makes <br> Fine Bread



EVERYONE who bakes bread should know about Cream of the West Flour. It is without a peer as a a bread flour. With every four $98-\mathrm{lb}$. bags of Cream of the West Flour and our other guaranteed fours we give an interesting novel or cook book

## Cream ${ }^{*}$ West Flour

the hard wheat flour guaranteed for bread GUARANTEED FLOURS
Gream of the West Flour (for bread). Oueen City Flour (for bread).
Monarch Flour (blended for all purposes) $\$ 3.65$ Monarch Flour (makes delicious pastry)

CEREALS

Cream of the West Wheatlets (per 6-1b. bag)
Norwegian Rolled Oats (per 90-1b Norwegian Rolled Oats (per 90-1b. bag)
Bob-o-link Cornmeal (per 98-1b. bag)

FEEDS
'Bullrush" Bran
"Bullrush" Middlings
Extra White Middlings
"Tower" Feed Flour.
"Bullrush"' Crushed Oat
Sunset Crushed Oats.
Manitoba Feed Barley
Barley Meal.
Geneva Feed (crushed corn, oats and barley
Oil Cake Meal (old process, ground fine)
Chopped Oat
Feed Wheat
Whole Corn
Cracked Corn
Feed Corn Meal
.30
3.00 2.50
er: $100-\mathrm{lb}$
bag.
d
.
$\$ 1.35$
1.40
1.55
1.75
1.80
1.85 1.85
1.85
1.90
1.80
2.25
1.85
1.80
1.95
2.00

Prices on Ton Lots - We cannot make any reduction on above
the above prices would be on carload lots. The only reduction fron
shipments up to five bags, buyer pays freight charted as desired. On over five bags we will prepay freight to any station in Ontario, east of
Sudbury and south Sudbury and south of North Bay. West of Sudbury and New Ontario,
add 15 cents per bag. Prices are subject to market

LIST OF FAMOUS BOOKS Ye Olde Miller's Household The Mighty Atom-By Marie
Book-Over 1,000 tested recipes $\begin{array}{cc}\text { and large medical section. Encloses } & \text { Mr. Potter of Texas- By } \\ \text { and }\end{array}$ 10 cents to pay postage and packing on this book. No postage asked
Black Beauty-By Anna Sewell Rebecca of Sunnybrook Farm By Kate Douglas Wiggin. Little Women - By Louisa frnocents Abroad-By Mark By Thos. Hughes School DaysThe Lilac Sunbonnet-By S. cott. $\begin{gathered}\text { David Harum-By E. N. West }\end{gathered}$ Quo Vadis-By Sienkiowicz The Scarlet Pimpernell-By Lorna Doone - By R. D. Black The Three Musketeers
The Campell Flow Muls Con
LIMITED
(WEST) TORONTO, ONTARIO

## TheBeaver Circle

OUR SENIOR BEAVERS


A Competition.



 Iong winter evening
Our sulpect is, What I, want to ao
when I grow up, and why, Windy send your leters so that the
Will reach us not later than the 15 th
February. Address


As most of you seem to like riddles,
here are a few that may be new to you
Why o sailors say thenere is not to you man
in the mooon Ans.- Beceuse they have in the mon? Ans.-Because they have
been to see (sea). Why is a dog with a broken leg like
boy in arithnetic? puts down three and carrees one.
What is the difference between the What is the difirence betwen th
trungry man and a glutton? Ans.-On
longs to cont and the the lungry man and a gluton? Ans,-One
longs to eat, and the other eate toc
long

Winter Games.
When the letters of a word or sentence are changed about to make a new word
or sentence, the transposition is called
 ing a winter evening by for forming thes-
A dictionary will help you. For a start A dictionary will help you For a start
try what new words or orrases you can
make out of the following : More
$\qquad$
Lose-(Part of a shoo).
Sale-(something placed

Rasp-(part of a boat).
Heal Pat-(something without which
Hou could not methen
Making worded lemters.

may
s
b



A poem or series of lines. of which the
first or llast leter of leach taken in then
cession will senell

form thes
example:
Christe
Hristmas comes but once a year
Hiso we love its merry
Riso
Rise you then in early cheorn,
It is no time to be forlo
tio where the
Treas hung this day, you take your way
Make children ana san stock ings, too
Make children gay, and troubles lew.
And so we hail each Christmas day,
Sing
The initial to all and good alway,",
Christers, you see, spell
Chisas",
If any of you work out good anagrams
Senior Beavers, Letter Box
Dear Puck and Beavers,-Seeing my

Claus is a pretty good old chap. He
vas up at our onterainment that. oHfer

fountain pene the the was veryent of a glad to
get it as she had none. get it as she had none. I I got a hand-
kerchief and a bag of candy
We don't It will snow and then rain so hathe yet. Suow only stand a lit rain so that the
we will soon have skating I I hope not been oon skating yet this withave
There is a sparring tor The Farmers' (Ilub have got it up way.
will close next Wedneve our lot of sparrows Wednesday. There it oure are a
wish we could catch the place are such pests. $\begin{aligned} & \text { Well, I all, as thess I } \\ & \text { close, wishing the Circle every }\end{aligned}$ will would . -1 wish some of the Beavers
we me.
 OUR JUNIOR BEAVERS. Junior Third, inclusive.,

Little Kid Martha.
Here is little Martha!
And, as you well can see.
happy litlle kiddy,
Her mother, Mistress Nanny-Goat,
Is not so far away;
But she's busy with the other kids
Who
She knows that little Martha
Is safe in loving care;
And as she doesn't worry
And as she doesn't worry
But is glad to have her there.
'Tis such a great relief, you know,
When mothers thus can feel
Ane kiddy so contented is
And so we, too, will leave her there
Quite free
I know she from all alarm, I know she's getting 'lots of love'
Within my sister's arms.


The Pet Kid.

Peekaboo Stories
By Juju.
Once there was a fairy called Iceand-
snow, who could not hat snow, who could not bear the heat of
summer. When her father and mother
and brothers and fite porting themselves among were out disthe forest and the among the leaves of
enjoying the briass of the fields the forest and the grass of the fields,
enjoying the bright sunshine, Iceand-
snow would be hidden in the very
darkest and coolest corner of a hollow
tree, or, perhaps, would be standing in tree, or, perhaps, would be standing in
the cool water at the edge of the stream,
wading

dollars at the door. We made sixteen charged ten All this grieved her mother very much.
It made her sad to see Iteandsnow dif-
and fiften cent. We are going to send ferent from the rest of her children and
it to the led.
Say, but isn't it fun to hang up our always so very rest of her children and
happy. One day
you that there is a great fairy, Rage
andblow, who may be able to help yo but he must not be called eecept on on
very important occasions, so perhaps our calling him will be of no use. It y want to try, you must com
midnight and call three times,
'Rageandblow, Rageandblow
Come thee to Iceandsnow
Come on the North wind
Come on the blast:
Iceandsnow needs thee,
And prays thee cone
Iceandsnow was not atraid of the
dark. Alt her ifte she had been used to
to going out in it, because she love
to going out in it, because she used toved
the colness of the night; so at mid
ond
night she crept out and said the magic
words
At frst there was no answer, and she
was afraid that Rageandblow would not
come; then she heard a far-ofr murmut nearer, $\begin{aligned} & \text { growing louder and louder an } \\ & \text { came. } \\ & \text { Soon the trees all about }\end{aligned}$
Sol gan to sway and bend, and their grea
branches to creak one anainst Still Tceandsnow was not afraid, not even when a great black cloud came
down before her, for she felt a
a cold wave of air that made her feel happy
and light as a bird. "Iceandsnow," said the voice in the "I want the sunshine," said Icen almost die," When the first bird passes in the vorice
ing call to it, ©Junco! Junco ! Take Then the cloud raised again, and the
old wind withdrew, and the blast and whistling died away, and all the trees In the morning Ieeandsnow was out
bright and early, and soon a little gray bird with a bit of whoon beneath, and
white feathers each side side of its tail, Mew to the ground before her.
"Junco ! Junco ! Take me ! Take no !". said Iceandsnow, and at once the
fitte bird spread its wings. Iceandsnow got on its back, and the bird few up
and up. They passed over great dark Iorests, over fields where people were go- go-
ng out to work Where no people were to be seen but ry, where the ground great white counhe sea, and the Ice King sat in a great hall or ice with his fairies all about him.
The sun shone every where, and the smow
and ice sharkled as an thuyh scantered vith millions of diamonds. ful, and was happy to live there. She the lives there yet, but every year she be- be
comes lonesome to see her tather and mother, and brothers, and sisters. So
she comes back to visit them, and when
she she come snow falls, and sometimes
horth
winds blow, and
sometimes the trees are all covered with white and
sparkle in the sunshnne with some of
the ofiamonds that she brings trom the North land. She stays for months and
people call her visti...wlnter."

Junior Beavers' Letter Box. Doar Puck, -My tather has taken "The
"armer's Advocate" for as long as I can remember, and I orijoy reading the
letters, but I never piked up enough
courage to write till now
cot hird book, and our teacher's name is
diss Price, and I I like her fine. I have
 Sisters and brothers I have none, but
that man's father was my father's son. Ans $-\Lambda$ father.
It hope the w.-p. b, is not hungry when
my letter asrives.


## Dear Puck and Beavers,- When 1 saw my sister's letter in "-The Farmer's Advocate" I was tempted to write. $\begin{aligned} & \text { My } \\ & \text { tather has taken "The Farmer's }\end{aligned}$ Advo-



\section*{| POUNTRY |
| :--- | :--- |
| CEAKGS OI |}

this heansed advertisements will be inserted unde
Each initial counte forts per word each insertion
Ene word and figures of Each micial counts for one word and finserrest fon
two words. Names and addresses are counted
Cash Cash must always accompany the order for an an
advertisement under chis heading oration having
goon pure-bred poultry
 columns. No advertisements inserted for lees
than 50 cents. BAHMAS, Black Spanish, Partridge Rockss,
Choice triidge Wat five doltures, Indian Rumner Ducks Choice trios at five dollars. White Lethorn cock-
erels, 1 It, bred from winners at Gueloh.
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Cockerels, one-fity each; fine birds.
Orville FOR Sale. Anything in "Snowflake". White
Paris, Onht.
Twis.
Two to five dollars.
E. Faris, ont.
$\mathrm{F}^{\text {OR Sale--Some extra choice young }}$ geese, bred from imported stock. $\underset{\text { OR SALE-Choice S. C. R. R. I. Red cockerele }}{\text { Find }}$ Dunkin, R.R. No. 2, Dundas, Ont.
 $\mathrm{W}^{\text {HITE }}$ ners. Wyandotes (Martin strain) Prize Wid
Dunc. McTavish, Chesley, Ont.

## 

 will accommodate eve hens, gives dimensions andmeasurements of every piece of lumber reaured
Deals sith the common diseases of stock and poul
ry and try and the remedies. Tellls how to cure roup in
four days Contains full information about Roy
Purpe Stock and Poultry Fo THE W. A. JENKINS MFG, COMPANY
Lochabar Poultry Yards Has a nice lot of Barred Plymouth
Rocks. $\begin{aligned} & \text { English Pencille } \\ & \text { Runner Didian } \\ & \text { Runner Ducks, Rouen Ducks, Tiau- }\end{aligned}$
Res. Runner Ducks, Rouen Ducks, Tou
louse Geese and M. Brone Turbeys
for sale. Pairs furnished not akeyn.
D. A. Graham, Wyoming, Ont.

Chickens 19c.
We will pay the above price for crate-
fattene to chickens. bied and picked
ctean to the wing tips. Chicens must

Waller's, 700 Spadina Ave., Toronto




Sherlock-Manning 20th Century Piano "Canada's Biggest Piano Value"
you get
and at the same time save fully $\$ 100$. Write THE Dept. 18 for Catalogue "T."

Harab-Davies
 THE ONTARIO FERTILIZERS, LTID
Study time, We teach all Public and spar Hic



Queensville, Florence cain.
Dear Puck and Beavers,-This is my

know a bull that stands in the field:
eats and eats, but it never gets full
JESSIE ANN GRAVE.
Dunvegan, ont.

tell you about a vers,-I am going
was and the horse broke his leg.
ing to church. $\begin{aligned} & \text { Before my we were go- } \\ & \text { mother got in at our own dor and }\end{aligned}$
mot the

he yard and turned short at the corne
of the barn, and upset the buggy and

horse's leg was a long time. I have
ust one little brother, he is three years
Lloyd wilcox.
Eganville, Ont. (Age 10, Bk. II.
Dear Puck and Beavers, -This is my
second letter to your charming Circle. saw my name in the honor roll. I an
air, which was held at Crosshill on
ctober the fifth. It was very well at
got first pprize for my biscuits, and
rst for the care of my turnip plot, and
hird for my asters, and fifth for my my
urnips. My brother also took three
prizes. Our school did the best in the
township. I hope we will have a school
fair every year after this. I will close,
fair every year after this. I will clo
wishing the Beavers every success.
ISABEL TRUSSLER,
Wellesley, (Age 10, Jr. III. Class.)
Dear Puck and Beavers,-This is econd letter to your charming Circle.
did not see my first one in print, so
thought I would write again.
Oing to tell you about my pet rabbits.
have two of them. They are

eep them outside. Sometimes I bring
into the house for awhile, and
hem
eed them milk and clover; sometimes I
ive them an apple. I go to schoor
ivery day, and like it fine. My teacher's
ver
ame is Miss Scott. Well, my letter
s getting rather long. Wishing the
ircle every success.
Would like some of the Beavers of my
own age to write to me.
Macville, Ont greta (Age 12.)


Advertisements will be inserted under thil
heading, ench as Farm Properties, Help and TERMS Triee centso per word each ingertion.
 F ARM Property-good 200 acre farm for sale in ma. Good buildings; well watered, fenced and
rained; soil, clay loam. Wm. Fisher, R. R. No. 1, twood, Ontario. ERRETS-Either color, large or small, single WOO-HUNDRED-ACRE farm for sale, five $\mathrm{W}^{\text {ANTED-first class single man for } \text { up-to-date }}$ dairy farm. Wages, 8325 per year and board. Mmmence work i immed. . .
Norwich, Oxford Co., Ont. VICAR MUNRO, ARCHITECT and C. E.
 Cedar Posts Car Lots Green $43 / 2 \mathrm{se}$
 Cedar Posts for Sale-Good sound, dr braces. Line posts cwut to your order, any lenget
Write, anyhow. J. Cameron, Boz 502, Now Llekeard, On Wanted Custom Tanning. Horse hides and Klso all kinds of skine and furs. Send them to m
and have them tanned soft and pliable. Addrees PATENTS AND LEGAL ETHERTONHAUGH \& CO.. PATENT
 BUTTER WANTED Highest price paid for dair
butter and new-laid egge ID. Arsenault, 142 Sanguinet St., Montrea Cedar Posts for Sale: 1,200 good sound
 CRAND TRUNK Sglvicim Winter Resorts special round trip pares
Long Limit - Stopovers
 pointsprings, Havana, Cuba, and New Orleans, La., vi Bermuda and West Indies Other Health Resorts Mount Clemens, Mich.; Battle Creek, Mich.; SL.
Catherines, Welland.
County, Ont;
Pretion pprings, On
Further

London Engine Supplies Co., Limited.
Our L. E.S. Water Works System will
give you the comfort of High Pressure Wive you the comport of High presure
Watm System for our home or about the
details. Refer to the Christmas Number for
"Golden Jubilee Catalogue"
is free for the asking. Drop us a post card
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a triai package or PrincessSkin Food Mrbyyixio 5 c .

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tions, the product of Canada's premier dermatologists at the
Hiscott Institute, who want every person wanting a clear, plexion to know the wonderful results that follow their use.
One of their choicest Complexion One of
PRINCESS SKIN FOOD You should know the real pleasure
obtained by using this excellent unguobtained by using this excellent ungu-
ent ; how refreshing its absolute purity; how delightfully beneficial its effect on the skin; how rejuvenating
its action on a fading and wrinkling its action on a fading and wrinkling
face, and how it works constantly for the freshness of the complexion, and
its pure flesh tints. its pure flesh tints.
We remove Superfluous Hair, Moles, Warts, etc., permanently by our safe,
sure and reliable method of Electrosure and reliable method of Electro-
lysis. Come for treatment during Ysis. Come for treatment during
" F " mailed with sample of SKin Food. HISCOTT INSTITUTE, LIMITED 61 College St., Toronto. Estab. 1892.

## WILLING WITNESSES <br> AY by dey mea are recerimgentusistic tostimo ininl letters Trom poliçholiders whose Rndowment contracts are now maturing. <br> The an our viling ymaee <br>   <br> Tho amout of thititum of 

THE MUTUAL LIFE ASSURANCE COMPANY WATERLOO, ONTARIO


FURS-HIDES-WOOL
Hex


 Wnimatims
HixWILLLAMIS PLANOwimim
Oshawa.
Mention The Advocate

News of the Week
The Canadian army for
increased to 500,000 .

Hydro light and power by-laws were

Henry Ford has returned to Now York.

Gen. Castelnau, Chief of the French General Staff, is now on the Balkan
front, inspecting the positions of the Allies.

The British Cabinet introduced into the House of Commons a bill previding ing a modiled form of conscription, giv power, ir needful, to bring single men to serve in the trenches or make munitions.

Indian troops in France have bee transferred to another
Mesopotamia or Egypt.

Great indignation has been aroused by the sinking of the British passenger line Persia, by an enemy submarine and
without warning, off the Island Without warning, of the Island of
Crete, on Dec. 30th. About 100 of
those on board were landed, and over 300 drowned; among them Mr. Robert Mc-
Neely, United States Consul at Aden. Neely, United States Consul at Aden.
The ship was bound from London to

During the week the most significant fighting news has been the strong offen-
sive of the Ruassians, who, prevented by Roumania from crossing her territory to to Bessarabia, Volhynia and Galicia. einforced by a body of Servians have reinforced by a body of Servians have
had some success in driving back the
Austrians from Bulgars are forcing a way across Southern Albania towards Durazzo. The
Teuton armies, also, have been ordered advance into Greece and attack the
llies, hence before this reaches its readicinity fing may be in progress in the Western front little. has been rrom the esulting in taking or retaking of a trench here and there. . . . The
usual activity of enemy submarines the Mediterranean, resulting in the in loss
 of the system of trawlers and destroy-
ers. which has done such effective work for the Allies in waters nearer home.
Mr. Lloyd George is strenuously urging
a greater output of munitions in a greater output of munitions in Great
Britain, especially of long-range guns

A Stingy Man and a Sacri fice that Paid a Hun dredfold.

her to give a cont of money for my support, or to take a stitch in my gar-
ments unless I would come there and slave as the others were slaving. was promptly swallowed up by the farm; was promptly swallowed up by the farm;
my uncle guardian squandered my share. A childiess uncle and aunt offered me a home in the village. As I had reached the limit of the district school I acceptSchool in one graduated from the Union High School in two years more. Then My uncle to go to the Normal School. der all and aunt were unable to shoulentail, but they furnished my clothes and a little money. I worked for my board at the home of a dear old lady who was

I was graduated from the Normal School, where I took the c:assical secured a position as teacher. My uncle had meanwhile died. - When I became teacher my stapfather was proud of me, and welcomed me gladly at vacationtime. I was earning money, real money,
more than any of his childrea who had been denied an education could earn. During the preparatory years he had
scoffed, pooh-poohed all education, and scoffed, ' pooh-poohed all education, and declared that I might better be working
out and bringing in three dollars a week. Now, figuratively speaking, he patted me on the shoulder and boasted about what a bright, plucky daughter he had.
outward grace, for it gave me a chance outward grace, for it gave me a chance
to be near my mother and my brother. During the next few years I fought my way up in my profession. I liked my work and was successful. I denied my
self fine clothes and theater tickets in soif fine clothes and theater tickets in something beyond the bare necessities with which they were supplied by my steplather. There was little that I could
do. I wanted to educate do. I wanted to educate my brother, work on the farm until he was of age An older brother who had tried to escape had been dragged back by the laws of to oppose that iron will and narrow prejudice. I longed to give my mother a vacation. She was needed on the farm. I offered to buy an oill stove to
replace the big range which replace the big range which made the
kitchen insufferable in summer. Mr. would not have one in the house. Ar. A that I could do was to supply books and
magazines and give the lamily what magazines and give the family what Why did I nould during vacations. Why did I not go home and help my away for weeks during vacations, because as soon as I shouldered a part of the housework her presence was demanded in
the fields. Every was required to work under that root Was required to work every hour of the
day and a few hours of the night. I might have helped to swell my stenfather's bank account by sacrificing my
life, but I would have added no whit to lire, but I would have added no whit to
any one's pleasure or well-being. Indeed
my mother gloried in the thought that I

## was out of it all.

One forenoon I was handed a telegram
saying that Mr. A had been found dead. There was no will. When the estate was
finally settled, the o'd homestead went to finally settled, the o'd homestead went to
Mr. A's chiddren, while my mother and Mr. As chidren, while my mother and
brother received an abandonzd farm which
had been one of Mr. A's last acquisihad been one of Mr. A's last acquisi-
tions. My mother was tions. My mother was verging on a
nervous breakdown. My brother was not yet of age and had never had the spend-
ing of five dollars. The house was con-
sidered sidered uninhabitable. They wrote that The same mail brought me a letter
which offered me a a comfortable salary, for which I wad been workin 3 -in brief, the goal toward which I had been straining every effort. I had worked hard to attain just this.
My education had been won by self-denial and strenuous effort. To drop out now
meant that when I returned after years absence I must again begin at the bottom of the ladder; that I would probably have
to spend the remaining years in medion rity. I knew that the call from home was only temporary. Eventually my my
brother would marry, and there would be no real place then for the sister. I I had
learned to hate farm tife from the bitter learned to hate farm life from the bitter
glimpses I had been accorded. I had
planned planned a trip to the mountains for that

OTHILLO
Treasure Ranger
Clma (Jadies) Clllege A Chrittian college-home, For prospectusand terms,write the Principal R.I. Warner, M.A.,D.D.,St. Thomes, Ont. 83
wrote mother that I would come as soon as school closed.
I began haunting the library and read ing works on domestic science and agri culture. I attended one or two farmer
conventions, visited tural College, inspecting some model farms, subscribed for agricultural papers and prepared in every way to give just as good energy given to pedagog
I shall never forget that first day on
the farm. My mother was shrilly fretiful by turns. There wan new house at the homestead; she had given twenty years of her life to attain They had no right to take it away,
she said. My brother's face was clouded and sullen. The two were at cross pur poses. My mother nagged my brother constantly. He hated the old farm. He
wanted to go to the city. He neglecting his work and He had been noglecting his work and running wit well as with girls of questionable char acter. He had been playing cards low places. He had let the cows go without milking, and crops were half put
in or not put in at all. My mother was on the verge of despair; but it didn't Worry me. I knew that there was goo suff in the lad. My years of teaching had taught me discornment of boy ohar
acter. He had never been permitted legitimate amusement or companionship. No matter how hard he worked there had Now that thans another task awaiting him did not know how to use his free dom-that was all. My mother wailed over the expensive new clothes that my brother had bought.
I shuddered at parts of them, the taste shuddered at parts of them, the taste stepfather had alway told me that my cheap, ill-fitting ones-and that when he came home from town with the last suit lay awake all night hating it. And the house-an old, gray, tumbleblack with age The the paint was wall paper hung in dismal strips agly of the floor boards were broken. It was enough to dishearten anyone.
A paper-hanger and a painter transpaper and white paint wrought wort, buff ${ }_{\text {An }}$ inexpensive rug harmonized perfectly White muslin curtains, simple furniture scattered books and magazines were add-
ed, and there was one restful place in the house. The other rooms in $\begin{array}{ll}\text { longer. } & \text { Some of them I painted and } \\ \text { papered } \\ \text { myself. }\end{array}$ the regular routine work mile there was to. I had never put up a jar of pre
serves or a glass of jelly, but my brother liked them. My mother was not equal cipes and plunged I took a book of re tioos as explicitly as I had followed the was rewarded with perfect resullts. My head ached and my benck ached from the unaccustomed foil, but I stuck to it resolutely and kept cherfinl at any cost.
By early autumn the house was cozy and By early autumn the house was cozy and
livable. There were jars of jellies and preserves in the cellar. and chickens ready for broiling, and my brother had begun to manifest some symptoms of in-
terest in his work. A hammock under terest in his work. A hammock under
the big, old elms, and a croquet set on the smooth grass, had proved effectual

Meanwhile I had been trying to win my brother for a chum, since I knew that in good. I rode with him, went with him

JANUARY 6, 1916
THE FARMER'S ADVOCATE
25.
to some of the beauty spots near ky Gradually he confided in me. I never
,preached, but I gave him advice tact full ,preached, but I gave him advice tactfully inge set in I made the counter attraction still stronger. I had girls out to vie me from town; fun-loving, jolly girls, but each pure and sweet. Dick soon lost hie
taste for the other sort. We played games in the parlor, quite as a matte of course, and the surreptitious haymow game, with its coarse accompaniment o vulgar fest and story, ceased to charm. There was a merry party at home and chafing - dish supper to follow. Why
should my brother fare forth into the night?

The hardest task of all was to per
suede my mother $t_{0}$ let Dick assume the responsibility which alone would trans form him into real manhood. She had
depended upon neighbors for advice, had tried to manage the farm work herself, and had carried a burden for which she was unfitted. I talked with Dick and saw that he understood the work, and
had excellent business ideas, but lacked incentive. I urged my mother to throw always the legal right to use as a check a necessary. He could not ruin the
farm in one year, and $I$ knew that $I$ had his confidence. It was hard to remain
passive while he made mistakes, but it passive while he made mistakes, but it
repaid the effort, when, having learned his lesson from Dame Experience, he tors over, explaining where the mistake lay and how he could rectify. it another year. His face began to wear an ex-
pression of alert strength as ha realized pressies responsibility.
Then, too, Dick began to show a ten-
der solicitude for his mother things to add to her comfort and to shield her from worry. Before we could
realize the transformation she was lean ing on his young strength instead ing on his young strength instead
trying to prod him to drudging toil. I enjoyed the life. I had never known the meaning of the word "home." How home circle. I came to see how pittfully small were all of my intellectual
achievements when compared with the large usefulness which was now mine. became a comrade of all the living silken muzzles of the horses, cuddled the downy chickens and ducks, ran races with the playful puppy. I grew sane and wealthy and rosy. My nerves were bu was forgotten. I plunged through the heaped winter snows or roamed through
the daisy-strewn meadow. Had the two years given me no other reward than the of the sweetness of a real home and the health of body and mind which cam from life in the open, I should still there came an even greater reward. My standards of life had been false instead of from life. I had judged peon plo only from an academic viewpoint, had thought no man worth while unless oe were college-brea and a member of aw that real worth was the true test, My brother had no diploma, but he was
well read and intelligent. There were those all about me who were ignorant
of books but rich in a knowledge of ature and of humanity.
While teaching I had become well aca family where $I$ had boarded. Neither of us had considered the other as a matrimonial possibility. As as
schoolteacher I made a fairly pleasant
col companion for a social evening, but
manifested
none manifested none of those domestic
virtues which a man would demand of the woman whom he chose to bear the
sacred name of wife. And this man was merely a storekeeper, while I was looking for a learned professional man.
We had kept up a desultory corresponWe had kept up a desultory correspon-
dance. He had quit the store and gone on the road. A drummer! Shades of
Froebel! But when the man called Froebel! But when the man called
casually at the farm the scales fell from both our eyes. The years had brought
out my latent housewifely instincts. I saw that he had wealth of heart and
character, a knowledge of Nature and of humanity. So today his ring is on my finger, and I am happy in my own
home with the man whom I love more
with each with each dawning day.-Selected.

Well to Remember. That orrery path hath a puddle. That ho to tho richest who wants the That a million dollars will not buy ray ot sunshine.
That
the
greater Conscious of grate That the brightest of thought times come from the dullest-looking That all of the good things of this they are of use.
That there can be no greater mistake than the stopping to worry over a miThat with content
is more of a palace than the lowest hovel sion without it.
That while few are qualified to shine in pole to be it is in the power of most' peeThat our homes are like instruments of music, of which a single discordant string
destroys the sweetness.

## Our Serial Story

"THE CHAPERON."

## By C . N and A . M . wiener

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Chapter XXX
RONALD LESTER STARR'S POINt OE (Continued.)

We were called early in the morning, to take the twins and Freule Menelathe fiancee no longer-for a drive
through Utrecht, to see the beautiful parks and the Cathedral before starting on the day's journey. Since the making of this plan, however, many things were
changed. Robert and Menela were both changed. Robert and Menela were both think it decorous to behave to each lady, (if the truth had been revealed) remained to be seen. If I had had no perfound pleasure in the situation, and in watching how things shaped themselves; but, as it was, I realized that I might that I should be lucky if I were allowed to shape myself.
I thought it well to be late to breaklast, lest the erstwhile fiancee and should meet on teto-a-tete; and. it was Lilli already knew all. She admirable Menela had probably told them in their bedroom over night, thus giving the pair plenty of solid food for dreams; and the scions, and nervous, not knowing how to bear themselves after the earthquake
which had shaken the relationship of which had shaken the relationship of Robert also was uneasy ‘ but, to my loiret, What I had done had hot been done for his benefit. I had not jeopardized my happiness to make him more
attractive, to give fire to his eyes, and attractive, to give fire to his eyes, and
an expression of manly self-control striving with passion, to his already absurdly perfect features. Though, plaindy, he was undergoing some mental crisis, he herd outside could have judged whether he were the saddest or the happest of men, and his sisters watched him anxiously, hoping to receive a guilding cue for tier As for Freule Menela, she was as comr air, as though, having slept on it, she vas more pleased than av
course she had adopted.
Phyllis knew nothing yet, except what he had gleaned from me last night, was sure of that; but I was not so
sure about Alb, who wore a clouded brow. Whether he was worrying over his own affairs, or whether friend Robert had commandered his hero's sympathy, Nor had I much time to speculate upon Alb's business, for I saw by Freule

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R. J. KeLLY, Sale Manager, Culloden, Ontario


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Entries close_10thyanuary, 1910.
Forfifurther particulars apply to C. L. NELLES, President.
to the hotel, the thing Mr. van Buren
had kindly helped her to find. But there was no chance for a sell-sacricicing brother to question his sister.. Friculte
Menela saw Menela saw to that:
It was my luck at its worgt, to
torn in my mind on this exauisto torn in my mind on this exquisite dey
on the Vecht. Once in a while it dmm comes back to me that, in a past
istence istence unbrightened by Nell Van Buren
and Phyllis Rivers, and Phyllis Rivers, I came to Hollend
with the object of painting Hiture with the object of painting pleturee:
Never, since my arrival in the brichit little country of wide spaces, have I had a keener incentive to improve tho shim-
ing hours; but how can ing hours; but how can a man remem
ber that ho's an artist when the ber that ho's an artist whien the gifl
he loves has engaged herself to another he loven
man, and one of the fow girls he never could love is rapidy engaging hereetr to him?
It was in sell-delense, not a real do
sire for work, that I fled to . sire for work, that I fled to '"Waterspln" and screened myseli behind oanal
and canvas. And then it was but to find that I had jumped from the trying pan into the fire.
My mave wae made while "Mascotio" and her fat companion lay at rest, that Alb might buy fruit for us from a truil
boat; and Freule Menola also avalled boat; and Freule Menela als
herself of the quiet interval.
"May I come and watch you paint $?$ " she asked, in a tone which shawed
that vanity made her sure of that vanity made her sure of a welcome. I longed for the brutal courage to say
that I could never work with audience; but I remembered letting alio last night the fact that I constantly sat sketching on the deck of "Mascotte", during the most crowded hours of lile I murmured something, with a minle
which needed ofling; and, accepting the which needed olling; and, acceptling the
grudging help of my hand, she floatod grudging help of my hand, she floated
across with an affected little scream. "I saw a lovely picture you painted Ior Miss Rivers," she said. when she was settled in a camp-stool at my side. "Will you do one for me ?" "With pleasure," I answered. "Thas
one shall be for you.
But if one shall be for you. But if you want
it to be good, we mustr't talk. I ahall
 "work," "Thanks for the compliment," she laughed. "I give you leave to forget me-for a little while."
So I did my best to take her at her worr, and tried impressionist sketchos of the charming and ever-changing aceno, upon which her prosence was the sole from the river on flowery lawns, taded coats-ot-arms glowing red and buve and gold over quaint doorways shaded by splendid trees; fairy villas rising from
billows of pink peaniee hydrangeas; humble cottages, with tiny window-panes of twinkling glass, shining
ont from out from bowers of late roses; dove-gray
windmills windmills beckoning acrose piles of got snowy sheep, racing along wide alypastures, blue with the blue of forgytmenots; below, a crystal flood foaming White with water-1iles that dilpped be
fore the prow of our advancing bot Over this crust of pearl, poised alwayt long-atemmed, yellow lilies, like hover-
ing hutternies ing butterfiiess and, tm a clear space of
water, each little wave canght the sunn water, each little wave caught the sum and sky reflection, so that it seamed
rimmed with gold and set with a blg. oval turguolso.
"Well-have I pleased you ?" Froulo Menela asked at laest.
The moment had come for an under-
standing. with my twe ed I had saved Phyllis, and nans, unaidsave or lose-myself. of course there was no choice which to do. I had played my fish and caught it, and as it was
not the kind of fish I liked for dinner, 1 must tear it off the hook and throw it back into the sea, wriggling. I told
myself that it myself that it was a bad, as well as
an unattractive fish, that if $I$ whan't hooked it, most surely it would have bolted the beaiutiful little golden minnow I had been protecting. Still-still, there it was, smiling on the hook, that
bad fish, trusting the hand which had caught and would betray it. It deserved nothing of that hand or any other hand; bnt suddenly, I found mine powerless.
"Phylis, Phylis,"
"you will be my death, froaned in spirit. I caught this fish; now I I may have to eat it, and it will surely choke me."

Northlynd R. O. P. Shorthorns and Jerseys


JANUARY 6, 1916
vista o years, lived through with
Freule Menele-mean, little, vain,
dis loyal Freuie Menela-by my side, con-
tentedly spending my money and bearing my name, whale I faded like a
lily on the altar of sell-sacrifice. In another instant I should have said yes, she had pleased mes shh would have
answered; and fust because she is a woanswered; and just because she is a wo-
man I should have had to say someman I should have had to say some
thing which she might have talken as she conse, so that it would have heon
all over for Ronald Lester Starr; but all over for Ronald Lester Starr; but
at this moment the two boats began to At this moment the two boats began to
slow down I suppose that Ton, at
son the steoring-wheel of "Waterspin,"" must
have received a message, which I was too prooccupied to hear, end as sped
slackened, came the voice which others slackened, came the voice which
know as that of my Aunt Fay. Never had it been so welcome, sounded so sweet, as now. when it brought my "Ronald dear," cooed the mock-Scot-
tish acconts, "you'd better get ready tish accents, "you'd better get ready
at once to lunch on shore, for Jonkheer Brederode has another surprise for us-
and $I$ know that by this time your and 1 know that by this time your
hands, if not your face, are covered with paint."
Wonderful waman 1 It was as ie in-
spiration had sent her to my rescue. spiration had sent her to my rescue.
Not that $I$ am at' all sure she would have laid herself out to rescue me from any snare, had she known or the ex-
istence; tor though, before the watery
mold worrd I am "Ronny dear" to her, she ls, not as considerate with me in private
as she used to be when we frist started. We have been frank with each other at times, the L.C.P. and I, and the pot has said in plain words what it thinks
of the kette's true character when time comes for us to part il may the time comes for us to part in may be more frank, and let me know, in polite language, that seeing the last of her borrowed nephew is "good riddance or
bad rubbish." ordinary, though indescribable, cleverness has woven a kind of web about us all; and whether 1 am able to respect the L.C.P. or not, I was conscious or
passionate gratitude to her as she arrested me with the bad fish hall-way to my mouth.
The boats stopped at a private land-
ing, small, but so remarkable that ing, small, but so remarkable that
thought for an instant the whole thing thought for an instant the whe whote thing
must be an optical inlusion. We had come to rest in the deep
shadow of enormous trees. Leaning over the raill of a snug little harbor two dummy men in rakish hats and
dark coats stared at at the new arrivals with lack-luster eyes. And the dummies, and the wooden wall on which
they were propped, with a strange they were propped, with a strange
painted motto consisting of snakes, and dogs, and sticks, and a ath crystal-clear. precision in the green mirror of quitet "Hater. $H$. claimed, Menela.
"Yes," said
I. "But it can't be

"It must be the place of Heer Dudok de Wit," answered the young ledy,snap-
pily. ""He is a wondertul man, and pily. "He is a wonderful man, and
many people say that no vistit to Holland can be complete without a visit to his house. He's a great character-
has walked all over the world, and brought back curiosities for his museum, to which he gives free admisesion. And he won't give, if asked for it-he's so Eenerous-rrom a night's lodging or or all
his best peaches up to a present of a his best peaches, up to a present of a
thousand gulden to a distressed stranger. This can be no other house than
his: and $-T$ beli eve Rudolph Brederode is a far-ori cousin of Heer de wit, fust as
Rudoloph is of mine on the other side. Rudolph is of mine on the other side.
I don't see our host,' though. Perhaps
$\qquad$
$\qquad$ noon-cay nap, to orget the heatlis is, bed for twenty-five years. . I don't know
how he lleens-but, look ! there he is now. I recognize him from photographs in newspapers."
My eyes foliowed her nod, which ap-
neared to to aimed at the river. peored for a boimed, but spied / a head
lionting among water-1ilies.

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Gamilies of both milking strain and beef. Shorthorns and Shropshires $\begin{gathered}\text { Am offering six young bulls at reasonable } \\ \text { prices rang ing in age from seven months to }\end{gathered}$


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10 Shorthorn Bulls $\begin{gathered}\text { and } 40 \text { females. Shropshire and Cots- } \\ \text { wowed ews for of } \\ \text { reach of all. }\end{gathered}$ JOHN MILLER, Ashburn. Ont., Myrtle Station, C. P. R. and G. T. R

SHORTHORNS AND CLYDESDALES


Questions and Answers. Iot- Uuestions akked by bona fide subocriber





## Mtoceltaneoue

Babcock Test.
There has come into my possossion a Babcock milk-tester. I would hike very
much if you would turntsh me, through much if you would furntsh me, through
the columns of your valuable farm paper the receptacles $I$ would noed, and the method used to make a successful teat.

Ans.-In order to make test you will require, besides the tester, properly$\begin{array}{llll}\text { grad. } & 17.6 & \text { c.e. pipette, } 17.5 & \text { e. ecid }\end{array}$ measure. You will require enough bottles to make tests for your number of cows. It is not necossary to get a bot-
tle for each cow, but the moro bottles you have according to the sizo bottes tester, of course, the fewer teats you will need to put through. If your tester is a four-bottle tester, we would advise that you get four or six bottles, the two
extra to have on hand in case of dents. The sulphuric actid required should have a specific gravity of 1.82 to 1.88 , and must be kept in a tightly-stoppered
bottle in a safe place as it it corrosive. The bottles and necossary apin dairy supplies who advertise in this paper. To make the test, be sure that
the sample is well mixed, then measure the sample with the graduated pipette with the mouth and milk finto the pipette of the 17.6 mark by placing the finger Ner the end of the pipette and allowing Che milk from the pipette into the bottle then measure the acid and put it in with the milk in the bottle, being careful to
hold the bottle olizhty that the bottee singhty on its side so Chen by rotary' motion mix the milk ann
cid. ${ }^{\text {Place the bottles in your machin }}$ and turn for five minutes, then take out
and add hot water at at least 140 deinees, amo up to a degrees, if workin,
a cocl room, until the tat ink sample comes well up into the nec's o Che bottle. Place the bottles back in the machine and turn for two minutes longer, then read the test from the high.
est to the lowest limits of the the graduated neck of the bottle. Be
careluiu to place botties in the machine so that it is balanced.

Abortion
their calvas. hast year cow tows losing within two months of time due; this yea time, and again about one month before ed almost three months before time What is the cause? They are fod corn
straw and hay, and have plenty clean water. Stable is sanitary and
well and have ant and well ventilated. 1 Is this contagious
abortion, and what is the abortion, and what is the remedy? anything be done to prevent abortion, can J. w. B. Ans, - We fear, from your description
that you have contagious abortion your herd, a germ disease not yet well deal of damage in the herdo a great We have had it in our own herd amt weld Noo, and about the only thing we can advise at the present time is to isolate
cows which abort, nisinter and both the exterior and interiomises, erative organs of the aborting cows. caretul not to use a bull on cows free
from the disease, which has been used on aborters without thoroughly disinfecting
his sheath before serving his sheath before serving. Formerly we
had some faith in methylene blue as seems to prove scientific investigation seems its use. We that there is very little
in large quantity of
it to each cow daily or herping toaspaonful
had cows weeks, but we not in a position arterwards, and we are
periment with to tate from our exof any, value. For a her or not it is
it was, but it is now the thought
previousiy stated, scientific investiga tion shows it to be very little good The only sale practice seems to be to koep the cows that abort, be careful t clean, and gradually work the disease out the herd, but to: acomplish this it neceasary that, no now animals b reasonable assurance should be given tha thertion not infeoted with conntagiou respondent's Would also. draw our cor respondent's attention to a long article
on this
subject which apperred is this subject which appeared in our
istorer 28, on page 1687, ani entitled "The Control of Contagious Abortion." This is a lengthy ariticle
and we do not wish to repont and we do not wish to repeat it here, well as we have seem it done a time, and is written by one of the lead. ing veterinarians in the United Statees. Contagious abortion is a subject which investigators in veterinary work. all our Formalin.
Through the columns of your paper, tollowing: $A$ short time me upon the from your paper a recipe for treating oats for smut and potatoes for scab. for formalin. Please explain the difher ence in these two articles, as I at they are the same thing, but muat conress 1 don't tel Ans.-We, generally lavor the term although some drugcists cleim that are sold commercially for the thes time as one and the same thing. The of the keep in mind is the strengtb per-cent. solution water. There has been the alabiyde it confusion over this subject in the part and we have generally, advised our read.
ers to ask for formalin ars to ask for formalin, which, if it is
sold
as
such, should strength mentioned. It is always the to ask for formalin. However, it you get it the proper strength, no matter it, it will do the work. If you get the
proper strent it, it will do the work. If you get
proper strength you get formalin.

## Gossip.

brant district hollstein salk The second annual consignment sale of Hill Hotel stables, in the old Commerctal ford ares, in the city of Brant 1916. The first annual sale of the Brant District Holstein Breeders, held one year ago, proved so great a success, both to
the consignors and purchasers, that the lie consignors and purchasers, that the the sale ap annual one, and on this moce ion the offering will consist of 60 head, 58 may be and 5 bulls, the quality of which district produced the the faot that thio irstrict prize bull calves the junior and senior rall, and champion bull at the last Guelph Show. A number of the cows to
be sold have official recorda, two of them be sold have official recorde, two of them is out of a $26-1 \mathrm{lh}$. Dam on the hoiliera of the young bulls. Several are daugh ters of British Admiral Ormabyy a a full rother to Birdie Ormsby, two-year-old rother to Jenny Bonerge a hallwhich for five vears in succosssion ormsby record of 30 lbs., the only cow in the calf to tho Several others are in calf to the Toronto first prize, Lakevieu ing and individuality is whose breed top. Others are daughters of King Fontiac Manor, which is out of a 26.67 Prince Hengerveld of the Pontinces bull. eral, again, re the ton Segis, out of a $25.28-\mathrm{lb}$. cow, and
sired sired by King Seris Pietertij, with ten
R. O. M. daughters.
Others are in calf
to Forye the Fairview Mercedes Korndyke, a son of
the great Pontiac Korndyke, and out
 ters of, and some others in calf to
Hartog Butter King Jenny Bonergee Ormgby hall-brother to a son of Canary Mercedes Pietertie Hartog 7 th, whose dam was a ater 34.-lb. co
For catalogue, write N. P. Sager, with cuntagiou to a long artice an appoared in out
in page 1697，ant of Contagious
a
lengthy
article to repeat it here，
ituation about ituation about a y one of the lead
he
United States． a subject which
nary
 time ago
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Itreat ydde explain the othe les，as
pg，but formaldehyde． at the
same the dis the
should shourd be a a a great deal of advised our read． be up it to it chooses to call $t$ formalin．get the

LSTEIN SALE． asignment sale of
olstein Breeders city of Brant－ January 26 ， sale of the Brant
rs，held one year success，both to couraged to make and on this occa－
st of 60 head， 5 s ． quality of which
e faot that this unior and senior 11 at the late ras，two of then
ne of the heifers as is also one
veral are daugh－
Ormsby，a full by，two－year－old arges Or haby－ 1 others are in
prize，Lakeview d，whose breed－ away up at the oin of a 26.67 ，
the great bull the great bull．
Pontiacs．
Sev－
Canary Trent tertij，with ten育曷悥 will be daugh－
in call to， entioned above， Pietertje Ha
a $34.60-\mathrm{lb}$ ． a ${ }^{\text {a }}$ 34．60－lb．cow．
P．Sager，St．

JANUARY 6， 1916


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ful phbor－
ney refunded．



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Collingwood worth about si，000 tor a goo
any breed
Henry M．Douglas
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Champion Hackney Filly
Noilie Performer，No．102\％：bay；forled 114．

 chas．OSIER，Calro，Ont．
FOR SALE
Imported Percheron Stallion Dark grey， 7 yearr old．Sound and sure．
GEo．KEYS，Boz 47，Wolfe Island，Ont．
 Black，\＆white stockings and blazee Ainerception－
ally well buitt and promising horse．
Price reason－ able．Furthe particularatrom Hous．Frice reason－ $\xlongequal{\text { Pomona Farm，Cobourg，Ontarlo }}$
Visitor－＂It＇s CONSOLATION
young man－a terrible war．＂，war，this，
Mike（badly wounded）－＂＇Tis that，sor
no warr at all．＂－Punch．
heritage．
Tommy I－＇＂That＇s a top－，hole pipe，
Jerry．Where d＇ye get it？＂German
Tommy II－＂One of them Ger nolans tried to take，me prisoner an＇
in＇erited it from＇im．＇＂－Vanity Fair．

THE FARMER＇S ADVOCATE
Questions and Answers．
Miscellaneous．

## Quittor

I have a horse with what they call quittor in his fore foot．Can it be cured？Perhaps you could give a cure for it．I have not seen your corre
spondent，＂Whip，＂ spondent，＂Whip，＂menticn it．J．G． Ans．－Pare the so：e of the foot down until the seat of irritation is reached． This will allow pus to escape at the tot－ tom．A little hydrozen peroxide or other good disinfectant should be injected into the sinus from atove twiee daily for two or three days．Poultice the foot with warm linseed meal until lameness disappears．

Elevators for Cuttingbox． I would hike to know it there is a
cutting－box for filling silos，with vators for conveying the corn from the cutting－box up into the silo，instead of
a blower or carriers，as I，think elevators as are useed in grain elevating would give good satisfaction，and would require muvh less power．it there are
such in use ？ such in use？
Ans．－There are suoh outting－ooxes
manutactured，with elevators，for filling silos．Two frms which formerly adver tised these with us are the Exeter Mfg Co．，Exxeter，Ont．，and the Peter Hamil－
ton MIg．Co．，Peterboro，Ont． No Test for
No Test for In－Calf Cows． I think some of my cows mill no
calve in the spring．Can I tell now b Calve in the prring．Can I tell now by
the taste of the milk whiloh cows whl calve and which will not？What is the
difiference in the taste of the milks － Ans．－We have never heard the conten
tion that a cow＇s pregnancy could be tion that a cow＇s pregnancy could ba
proven or disproven by the tasto，of her
milk Sust milk．Such a belief is quito absurdi
Watoh the cows careeully，and，where practicable，it is somotimes advisable to
turn the male animal in the yard them for a very short time eanh day It they are not pregnant，and are being
well feod．they should show regular

```
- Permanent Pasture.
```

permanent pasture next spring．We tor permanent pasture next spring，Wo have
it plowed now，an old alfalfa and blue grass sod，and uould like to uee it for pasture for some years，so please advise
what kind of grass seed to use， Ans．－It is not generally considered the best practioe to seed down land．Which
has been－plowed oit of sod．the first year．However，if you choose to do so， you might try，if the land is fairly high，
 ibs．；tall
tail， 2 lbs．i alfalifa， 5 lbs．；white clover， 3 lbe；red clover， 1 lb．，per acre．This will make a heavy and rather expensive
seeding but it is one which，if a good catch is procurod，will atand for many

## Frothy Gream．

I have a cow from which I have beor separating the milk and making buttor， no matter how long I may churn．The ream becomes frothy，but will not break into butter．The cow is five months Ans．－There are many causes of dim－ culty with churning．Some of thees，
were outlined in our issure of Dec． 2, were outlined in our isse of Doc．2，
 reamedy or the frothiness，we would sug
gest pastenrization．As soon as sumb－ gest pasteurization．As soon as sump
cient cream has been collected lor ono churning，and while still sweet，set the cream vessel into hot water at a trom－
perature of 180 degreea．Stir the croam perali it reaches a temperature of 160
untirees，and allow it to stand at that
dege degrees，and allow it to stand he cool
temperature for ten minutes．Then col temperature for ten minutes．Then cool
to between 60 and 70 degrees by setting to between 60 and 7 degrees by setting
the cream in cold water，then add for each gallon of cream about on thalf pint of good－favored sour skim milk or but－
termilk．Stir this well into the cream termilk．Stir this wer a into the cream
and allow to stand in a warm place for and aty hours，when it should be ripe and
twenty hor $\begin{aligned} & \text { ready for churning．} \\ & \text { temperature of from } \\ & 64 \\ & \text { to }\end{aligned}$ to 68 degregs F ． find every day． are the consignors．Write Burlington Jet，G．T．R． Burlington phone or telegraph． H．SMITH

The Great Canadian Annual Sale of

## Scotch Shorthorns

Will be held at the Union Stock Yards，Toronto，Ont．，on Wednesday，Feb．2nd， 1916

When there will be sold BY AUCTION，without reserve， 65 Shorthorns of the best type and most fashionable breeding． About 30 bulls and 35 young cows and heifers from four of the leading herds in Canada．The bulls are selected to make great sires，many of them great show bulls．The females will furnish show material and breeding cows，to add strength to any herd． Many of them have already won prizes at our biggest shows．

Nearly all the very best Scotch families are represented， and the sale will afford the best opportunity of the year to buy the kind of Shorthorns that are valuable and getting harder to

J．A．Watt，Elora，Ont．；John Miller，Jr．，Ashburn，Ont． Kyle Bros．，Drambo，Ont．，and Robert Miller，Stouffville，Ont．

Robert Miller，Stouff ville，Ont．，for Catalogue
BULLS ON HAND TO OFFER FROM $\$ 125.00$ UP 1．Sylvan Power $=9.5571=$ ，white gilved Feb．9．＇16









## 20 IMPORTED BULLS


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SHORTHORNS AND CLYDESDALES


PLEASANT VALLEY FARM SHORTHORNS
 The Salem Shorthorns

 Oakland－ 67 Shorthorns（milk strinh）．Preent oftering 1010 choloe bulls from 8 nearly all sired by one of Ontario＇s beit bulls（still at head of herd）．Good cattle and no big prices，
Write your wants to

JNO．BLDER \＆SONS，Hensall，Ont．
SHORTHORIS OF SHOW－RIIG QUALTY 푼는․․․․ from the famous aire，Mildrede Royal，Sr．Calves，Matchlem and Kmmellineb，they are ali of show－ GEO GISR \＆SON．R．M．D．WALDEMAR，ONT．，P．O．AND STATKON HAY P．O．，ONT
21 SHORTHORN BULLS and as many heifers for ale．Write your wints．
SHORTHORNS and SHROPSIITR
With 125 head to decet ton SHROPSHIRES M，L．MRRGER


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Every bottle sold with a signed Contract Book nim miom









Beaver Hill Aberden-Amaua Bula fit or Niter
The Glengore Angus








 Stewart M. Graham
Long distance Phone, Lindsay, Ont.

## SHORTHORNS

Three bulls, 11 months, a number of younger cows
with hiteir calves, cows in caif and yearling
beifers
 J. T. GIBSON, $\quad$ DENFIELD, ONT FLETCHER'S SHORTHORNS


 Shorthorns and Swine -Have some also cows and heifers of show material, some with
calves at foot. Also choice Yorkshire sows. ANDREW GROFF, R.R. No. 1, ELORA. ONT. "Pail Fillers'
 SHORTHORN BULLS AND HEIFERS-Have
 Choice stock to offerinSHORTHORNS. POLAND Poland China herd at Toronto and
Pairs not akin-bred from winners BURNFOOT STOGK FARM, Catedonia, Ont. Breeders of Heavy Milking d
horns Present Offering ch
April 9 th. 1915 , a grandson of April th,
the leading a in the R.O.1.
Canada. S. A. MOORE, Prop

## Gossip.

kettle's holsteins Elsewhere in this paper appears the advertisement of C. -C. Kettle, Wilsonville, Ont., who is offering Holstein cat
tie for sale, and regarding which he hle for sale, and regarding which ha
writes that all of the animals in the herd but four were bred by himself They are all young, only one being eight
years old. Countess. Wayne Posch has vears old. Countess. Wayne Posch has
record of 22.11 lbs.
Nearly all tha cow ecord of 22.11 lbs . Nearly all tha cow
in millk are in Record of Merit. There are seven cows from four to eight years old. two three-year-olds, four two-year
olds. six yearlings, three eleven month olds. six yearlings, three eleven month
old, and two heifer calves about thre ld, and two heifer calves about thre
months old. There are also three bulls. nearly a year old, all from Record o Merit dams, and three bull calves.
cluded in the herd are five daughters cluded in the herd are five daughters o
the stock bull, Grace Fayne 2nds sir the stock bull. Grace Fayne 2nd secir
Mercena. a half - brother to the recent Fuelph champion cow. His dam's r.cord was 27.47 in seven days. His full sis ter holds the Canadian milk record fo-
thirty days as a junior two-year-old. thirty days as a junior two-year-old. He
is a son of Grace Fayne 2nd's Sir Colantha. Five of the daughters of Grace Fayne 2nd's Sir Colantha are bred to Fairview Mercedes Korndyke, one of
the best sons of Pontiac Korndyke, a the best sons of Pontiac Korndyke,
half-brother to the world's record cow of 44.18 lbs. of butter in one week. The record of his dam and twelve sisters averaged 32.43 lbs in seven days. In
the younger females are first-prize anithe younger females are first-prize ani-
mals at London, while a number of the older ones have bean prizew:nners both Toronto and London.

## HALEY BROS.' HOLSTEINS

 The renowned herd of record-making Holsteins owned by Haley Bros., of Springfora, Ont., has again added freshlustre to their already long list ors, by cnce more winning the dairy test at Guelph and championship over all bre:ds. This time, the cow that did the trick was Colantha Butter Girl, and her test Canadian'senior two-year-old butter-fat record for thirty days of 104.05 lbs . Her seven-day record at first calving is Guelph dairy-test championship time the to this herd. This year's champion is a daughter of the former stock bull. Grace Fayne 2nd's Sir Colantha, the records of whose dam and sire's dam
average, for seven days, 30.76 los., and for thirty days 122.93 lbs., and he also has two 30-lb. sisters. Another of his deughters, a full sister of this year's
champion, one year younger, holds the champion, one year younger, holds the
Canadian junior two-year-old milk Canadian junior two-year-old milk record
for thirty days, with 2,007 lbs.. As a sire of great production, it is only neces-
sary to say that six sary to say that six of his daughters in
the herd have seven-day butter reco for two-year-olds averaging over records for two-year-olds averaging over 20 lbs .
The present stock bull is Butter Baron, a son of Queen Butter Baroness. 33.16 Ibs.. Calamity Starlight Butter Girl, a
full sister of hers, won the Guelph full sister he hers, won the fuelph test
championship with a butter-fat test 5.5. and this year's champion is a daughter of Queen Butter Baroness.
Again, the dam of this bull, Again, the dam of this bull's sire was
Lady Aaggie, which won the Guelph Lady Aaggie, which won the Guelph ted
championship for two years. Her tet was 4.3 per cent., and her seven-day
record 27.4 lbs. From the above, it will be seen that Rutter Baron is choke full
of test championship blood and high records. Practically all the herd of
milking age are in the Records, and as a show herd their record is ton well that Haley Bros. breed all they show young bulls for sale, one is a son of this OUT OF DANGER.
Generieve-'I want to give Jack some books. He's ill, you know, and 1 can Veligious?". Why not give him something Cirnevinw-".oh, my, no! He's conraten - Cour war is t rill $1: 1$ hnow C.min Mratus, and loot hatf of them aman with was war. T know or
 $\pm 5$ Concrete is
Boen Materi
for Hores Beot Materiel
Cora Horoi
Found

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Burlington IRVINEDALE SHORTHORNS ulls and heifers of the very best quality. Sired by Gainford Selec
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outtit. traction engine with cab, seaar-
ator, wind stacker, in good operative $\$ 875$ The Robt. Bell Engine \& Thresher Company, Limited
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 Special attention given to
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Ridout \& Maybee GROWN LIFE BUILDING, TORONTO, ONT Use Agricultural Lime Beachville White Lime Co. Beachville, Ontario
Ourline stone is hishetet trade in Canata
coidtitick Calf Meal MKREs HEALTHY VICoraus calves

Alderley Edge J. R. KENNEDY, Knowlton, Que.



I'il Rid Your Hogs of WORMS $=$
Your hogs are almost certain to be troubled with worms right now; in fact, at all seasons of the year. at a profit can't fatten your swine at a prone. How about ted liters-pigs from a wormy sow can't get the right start.
means stunter I guarantee that if you feed my/Stock Tonic regularly as directed, you will rid your hogs of worms,
they will keep toned up and vigorous, resistodisease better and fatten quickly and cheaply Dr. Hess Stock Tonic
25-1b. pail, \$2.25. 100-1b. sack, $\$ 7.00$ (daty paid) A Fine Conditioner-A Sure Worm Expeller A Fine Conditioner- horses, cattle and sheep are apt to be out of fix right now, Your horses, cattle and sheep are apt to be out of dix righ now.
because animals off pasture and on dry feed are deprived of the
laxatives so plentifuly furnished in grass.
 enrimilate their feed better, as well as laxatives for keeping th
assime
bowels regular and clean. Rowels $\begin{aligned} & \text { Remember, when you buy my Stock Tonic from your local } \\ & \text { you save peddeler shorse, team and travelingexpenses, and } \\ & \text { the small dose ouantity will prove that my Stock Tonic is }\end{aligned}$
5
$\qquad$ for many years interested in swine breed-
ing, and particularly Yorkshires ing, and particuarly yorksires, ar
familiar with the high quality of the familiar with. thie hign quaich have in-
entries from this her, whe tops, and more
variably been among the tol variably been among the taps, and more
especially in the bacon classes, which is a recommendation stronger than words
for their type and quality. The principal stock boar in service is the London
champion. Longfellow, and he is well champion, Longfellow, and he is well
named, but with his great length is an
even, even, smooth, perfectly-balanced form sel-
dom seen. which, by the way, are principally Cin-
derellas, are Toranto, London and Guelph
first-prize winners, and at the late show first-prize winners, and at the late sho
in Guelph the reserve championship o
sows went to this herd, as well as man other awards, including second, and two
other places lower down on bacon hogs.
At London last fall, out of 14 entries 10 firsts came to this herd. For sale
are young
for service.
townline farm tamivorths an
$\qquad$
$\qquad$

$\qquad$ under six months. His stock boar in
service is Stratmoor Paddy 8791, bre:
at Macdonald College. He is all that at Macdonald College. He is all that
could be desired in type, and is irovinz
a sire of most excellent merit. In
$\qquad$ for both sexes and any desired age on
short notice The Leecesters are up to
the same hiwh standard of brecd type
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and get rid of them you ant

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Tis Yeal


## CURE



 egever Fobraryy March pax eliford, Ont., R.No.3.
 Mt. Elgin, Oford coi

 chasing elewembere
 .Williamstown Ont. orkirito Menie =3si0


THE FARMER'S ADVOCATE.

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 lions of more than ordinary merit. Stal-
lions that are thorould and that have been tried and proven, so
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ing 1,900 lbs., second at Toronto and
Ottawa; Kant is a black five-year-old,
weighing 1,950 Give-year-old, up to 1,950 lbs. The last
two mentioned horses were never shown Mr. Huality of the horses imported by
Mamilton is well known. There is none better for genuine draft character
and excellence of underpining

IERCHERON AND CLYDESDALE STALLIONS AND MARES. predominating feature in the horses im
ported by the popular firm ported by the popular firm of Hodgkin-
son \& Tisdale, of Beaverton, Ont., and ter class of horse never go away dis-
appointed from a visit to these noted importing barns, and this year is no ex-
ception. Just now there is on select lot of Percheron and Clydesdale
stallions and mares, also one Standard-
bred stall bred stallion, a beautiful seal - brown, 11
years old. He is Brilliant Light, sired by the famous Searchlight, dam is a horse of grand physique, beautifuly turned, and has lots of speed. He is
for sale at an easy price. Among the
several Percher good-moving, quality, gray three-year-
old, Molitor (imp.) 3849. His quality is best proven by saying that at the late show in Guelph he was awarded firs prize. Another Guelph first-prize winner
is the gray two year-old, Nigout (imp.)
3444 . He is a big thick, smooth colt. He is a big, thick, smooth co
that moves straight and true. Jovi
(imp.) is a gray six-year-old that reserve champion at Toronto, Ottawa $\begin{array}{ll}\text { and Guelph as a threa-year-old. } & \text { He is } \\ \text { ane of the good kind, and a son of the }\end{array}$ champion, Etudiant. Koumis (imp.) 3850 is a black five-year-old, one of the
low-down, thick, mooth kind. In Clydes-
dale stallions there is the bay four-yeardale stallions there is the bay four-year-
old, Douglas Heir (imp.) 13171, by Black Douglas, dam by Montrave Matchless
De He is a horse of outstanding merit from
top to bottom, and a grand mover.
Golden Spark 14567 is a bay three year-
 Derby. He is a colt of excellent merit
and character, particularly good at the ground, and moves straight and true
King's Top Knot (imp.) 12685 is brown five-year-old, by the Belfast first-
prize horse, Ganymede, dam by the Royal stcond-prize Top Knot, grandam by Pricce Imperial. This is a beautiful horse, full
of styte and courage, and a faultless mover. In Clyde mares there is the low, thick, smooth, quality College Queen
(imp.) 27876 , a black six-year-old, one of the good mares of the country, sired
by Baron's Fashion, dam by Baldavie Chief. Lady Bain (imp.) 22697 is a bay
7 -year-old, by Faraway Blend, dam by -year-old, by Faraway Blend, dam by
Loudoun King. She is a Toronto ant ttawa winner. Both these mares are
in foal to Douglas King. In Percheron
mares, only one is lett. mares, only one is left, a $1,975-\mathrm{lb}$. gray
eight-year-old. She is a choice mare.
Wither and moves remarkably well. With her, together they certainly are a great team. these horses are for sale, a selectio of breeding and drafl
in any one stable.



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Largeet and oldext importers and bredereo ol OXFORDS
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PETER ARKELL \& SONS, Proprietors, Teeswater, Ont. ustomers, beware of imitations of this advertisement

SUMMER HILL OXFORDS
Flock established many years ago on Summer Hill Stock Farm by the late Pete tity for sale, all recorded. Positively no grades registered as pure Peter Arkell \& Co., P.O. Box 454, Teeswater, Ont. G.P.R. Sta:

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 W. G. BAILEY, Oak-Park-Farm, Paris, Ont. R. R. No. 4. Farnham Farm Oxford and llampshire Downs

 Hin irionk ki s son Rout 2 GUELPH, ovt.
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Even in a match you should consider the "Little Things" the wood-the compositionthe strikerbiuty-the flame

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| sows ready to breed pips of | all ages for sale. Before buying,

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W. E, Wright
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Son Glanworth,Ontario CLEARVIEW CHESTER WHITES
For many years my herd has won the highest
 D. DeCoursem, winers R. No. 5 . h. Mitchell, Ont Poland-China Swine $\begin{gathered}\text { Duroc } \\ \text { Berkshireserey } \\ \text { and }\end{gathered}$ Chester Whites also Dorset Horn eheep. Young
toock of both sexes Come and see, write or phone


 Guarnteed satisfaction
Joaeph Feather
Sorston
Tamworths A choice lof of breal some Herbert German, St. George, Ont $\overline{\text { Lakeview Yorkshires If you want a }}$
 Townline Tamworths
$\qquad$
 $\underset{\substack{\text { Morriston } \\ \text { Tom the pr }}}{ }$


Questions and Answers. Miscellaneous.

Lambs Killed by Dogs. 1. Can a Township Council be sued aq
a Magistrate's Court for price of lambs killed by dogs ? ourt tor or lambs 2. Cana Tounship Counsil be sued for
price of lambs killed by dogs, whether price of lambs killed by dogs, whether
they collect a dog tax or not 2 , Ans.-1. No; the suit should be enWhere the owner ould add that it it is only
what is unknown
that the corroraticn of the municipolity that the corforation of the municipglity
is required to award compensation to the
iwn owner of the sheep or lamst killed. and
the Council must be first satisfied that
te then he has made diligent search and enquiry
to ascertain the owner or keeper of the dog, and that he cannot be bound. The
award would not exceed two-thirds of the damage sustained.

## Communicable Disease.

I had diphtheria and was quarantined
for tour weeks. 1 asked the doctor it it
It should spray the room every day with
carbolic acid, but he said not to thing with the room, and when we got
beter the better the Health Inspector would come
and disinfect tha place; that a man was and disinfect thh placeector would a come
appointed for thas that work. He also wais
and
 I had better stay in an another
week, and then he would send should forget, 1 cet the place, but if he to bend word to
him and remind hima of it came,
again one came. $\begin{aligned} & \text { In a couple more days } 1 \text { sent } \\ & \text { a man to to } \\ & \text { the doctor, and ths doctor }\end{aligned}$
and said he had nothing to do with it, to
go to the township clerk, and the clerk
said he had nothing to do with it to so the inspector the au do with it, to go
to

1. Who has the authority 2. Who should pay for the disinfectng? ns.- 1 . The medical oficer of health 2. The municipality.

## Veterinary

Thrush or Canker

Mare's feet smell like decayed meat. months by two veterinarians.

## Yorkshire Pigs

AGES FROM SIX WEEKS TO FIVE MONTHS Strong growthy individuals from well bred sire and dams
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7 HESE are the days of heavy horse power expense. The horses are idle. Hay and oats are worth so much it's a shame to use them for
(4) feed. It takes five acres of land to raise enough to feed one horse one year. Horses are at the top of the market,
with prices higher than for years past. The market for horses with prices higher than for ears past. The market for horses
is so grod that even at these e inherer roices, they are easy to sell.
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## Gossip Comivg Events. Experimental Union at Guelph, January

 Western Ontario Dairymen's AssociaWestern Ontario Darirymen's, Associa-tion Convention at St. Mary's, January 12 and 13 .
Ottawa Winter Fair, January 18-21,
1916 1916.
ers' Associantion of the Ontario Fruit Grow 20 and 21,1916 . Live Stock Association meotings at
Toronto, Jan. 81 to Feb. 4 . J. M.' Gardhouse, weeton, Ont, writes that he has just purcokased the entir
 herd is comprised of thirty head of
choicely - bred cattle, among which ar: Choicely - bred cattle, among which aro
four imported cows, an tmported buil, rour imported cows, an mported bull
and a number from imported sire and
dam or money in spared neither time However, he found it necessary to curtail
his farming interests, end Mr. Gardhouno bought the entire herd. Mr. Gardhouse purposes holding an auction sale of be tween 40 and 50 head shortly, composeo
of some of these cattio, together with number selected from tho woll-lknow Rosedale herd. Among the draft will be one of the best sons of the great cham
pion, Gainford Marcuis, and there will also be a daughter of the well - knowi show bull, Browndale.
Sale dates olatmed Aberdeen-Angus cattle and Oxlord Down
sheop.
Jan. 25, 1916.-Víctoria Pure-brod Stock, Asociation,
Knight, Seeretary.
Jan. 26, 1916.-Brant Ditrict Hol stein Consignenent Sale of Holstolns,
Brant tord, ont.: NT. P. Sogen Brant tord, ont.; N. P. Sager, St. George,
Ont. Socretary.
Jen .
Jan. 27, 1916.-Bertram Hookin, GrafCon, Ont., sale of Holsteins at Coburs.:
Jan. $27,1916 . W \mathrm{~W} . \mathrm{A}$. Jan. $27,1916$.
Ont.: Folsteins.
Ont:; Holstejns. -Canadan Sale of Scoteh
Feb. 2, 1916. Shorthorns, Union Stoolk Yarde Toronto;
Robt. Miller, Stoutvile, Ont., Manager: Robt. Miller, Stoulfivile, Ont, Manager.
Feb. 8,-Southern Ontarto Consignment Feb. 8.-Southern Ontarto Consigement
Sale Company's Annual Sale of Hotsteins at Tillsonburg; R. J. Kelly, Culloden, Ont., Socretary.
Feb. 10, 1916.-C. E. Trehsliook, LonFeb. 10, 1916-C. E. Trebhlicock, Lon
don, Ont.; Holstelns. Feb. 16, 1916, -Nortolk Holstoin Breeders' Sale, at simcoe; W. A. Mason, Simcoe, Socretary.
March 29, 1916. Western Ontario March $29,1916-$ Western Ontario Con-
signment Sale, London; Harry Smith signment
Hay, Ont., Male, Lonager.

To the village clergyman's home ther came one day a bouncing baby boy,
Kind neighbors and members of his fook Kind neighbors and members of his floc and presented the money to the prond but poor father.
So great was his gratitude that the de
So great was his gratitude that he do cided to thank his congregation the fol-
lowing Sunday before beginning his serowing sunday before beginning his ser congregation heard:
"Friends, I want to express my keen appreciation and gratitude for the timels terday."

The Sunday-school teacher put to her the history of the cities mentioned in the Bible.
"What happened $t_{0}$ Babylon ?" was the irst query,
"And what became of Nineveh ?" "It was destroyed," "And what of Tyre?"

## A country school-teacher was cashing

 her monthly oheck at the bank. Theteller apologized for the filthy condition teller apologized for the filthy condition
of the bills, saying: "I hope you are not afraild of microbes.
ma'am; "T'm sure no micrabe could live

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