## PAGES

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## Galt"Sure-grip"Shingles

Surprising how easily and rapidly a roof may be covered with Galt "Suregrip" Shingles. Simple matter to lock the sides together, and just as easy to lock the top shingle to the one below

The nails are "concealed"-can never pull out. Galt "Suregrip" Shingles lie so closely to the roof that they really might be said to be cemented on. And they lock together in the tightest kind of a grip. These shingles form a solid armor of galvanized steel, affording not the slightest opening for wind to get under. They can't drop off or blow off; neither can they rust or burn off. Just as cheap as ordinary shingles. Last a life time. The wisest kind of an investment to make. THE GALT ART METAL CO., Limited GALT, ONT.


# What's The Answer? De Laval Cream Separators 

 800,000 Machines Sold. the de laval separator co.,



Whan Writing Plaass Martion Advoctit

## Last Mountain Valley Lands <br> We own thousands of acres of Choice Selected Land in this

district, which is in the heart of the

## GREAT WHEAT PLAINS SASKATCHEWAN

## Ample TIMBER for All Purposes

Prof. Thos. Shaw, after personal inspection, writes: "This rich and beautiful farming section lying in the vicinity of Last Mountain Lake, embraces one of the finest areas in the Northwest. The land is undulating in this region, mostly to injure the wheat, is virtually unknown. Being thus favored so two feet deep, and is underlaid with a clay subsoil. Frost, ${ }^{( }$ of wheat in this region is phenomenally high; in several instances forty to forty-five bushel spising that the production Oats, Barley, Flax and all small grains yield relatively as good as those of wheat. Potatoes grow per acre have been reaped. or three years ago there were not more than thirty-five settlers in the entire areat. Potatoes grow most luxuriantly. Two rapidly coming in.'

Send 25c. for our beautiful new photographic souvenir entitled "The Lake and Lands of Last Mountain Valley," which is not only a work of art, but a book of authentic

# Che <br> "Persevere and Succeed.' <br> <br> Farmer's Jydr and Home Nagazine 

 <br> <br> Farmer's Jydrand Home Nagazine
}

FORMALIN III AGRICULTURE.
Seven years ago we entered a village pharmacy to procure a few cents ${ }^{\prime}$ worth of formalin to treat some smutty seed grain. At that time the uses of formalin were so few and the demand so small that the druggist had to think for a while to remember whether he had any on hand. Since then its agricultural uses have multiplied, and to-day formalin is he most can be kept in the farmer's drug closec. lies in its antiseptic, preservative properties, which adapt it for so many purpose that an enumeraton "t The Farmer's Advocate " readers. In passing, it may be worth while to iote that formalin is simply a forty-per-cent. solution of the gas formaldehyde in

## USES.

For treating seed grain to destroy the spores of smut. Either of two methods may be used, sprinkling or immersion; the former is the simpler of the two. It consists in sprinkling with a solution of one pound (a little less than a pint) of formalin to thirty-two gallons of water.
2. Treating seed potatoes to destroy the spores of scab. Soak the tubers for two hours in a solution of 8 ounces of formalin to 15 gallons of water. It is advised to plant within two or three days after treatment. This treatment is quite as
effective as and very much safer than the use of corrosive sublimate, which was formerly advised. 3. A solution of one part formalin to ten 3. A solution of one part formalin to ten
parts water, is said to make the best treatment to prevent joint-ill in colts and white scours in calves. Both of these diseases are caused by specific bacilli, which enter the system through the navel cord of the newborn foal or colt. Wash ing the cord 3 or 4 times daily with the solution, disinfects it completely, at the same time causing it to shrivel and dry up, thus preventing the admission of germs.
4. For certain forms of calf scours (those not tion), an int adminstration tion), an internal administration of formalin has lished an a subectory we recently pub man who saved a calf's life by feeding it from a man who saved a calf's life by feeding it from a
nipple on new milk, in each pint of which he nipple on new milk, in each pint of which he diluting half an ounce of formalin in $15 \frac{1}{\frac{1}{2}}$ ounces
5. For thrush in horses' feet, cleansing and occasional dousing with a solution of one part formalin to five or six parts of water, is said to be the best treatment yet tried.
6. For disinfecting houses, to rid them of the germs of contagious diseases, formalin probably has no equal. The plan used to be to vaporize the gas by heating in a special apparatus, allowing the space to be disinfected to become filled through the keyhole of a,dour or son
Lately, a simpler means of using formalin has been devised. Formaldehyde candles mar has be purchased, which, being simply lit and now be purchased, which, being simply lit and placed trouble. The candles, we believe, are somewhat more expensive than the vaporized liquid, but are more convenient to use.
7. Formaldehyde gas is used by nurserymen to disinfect their stock of San Jose scale and other fungous and insect pests. A load of trees or bushes is hauled into the house, which is then filled with the gas.
8. Formaldehyde is an efficient preservative, and has largely displaced alcohol as a preserving liquid for anatomical specimens, a dilute solution being much used in medicine and surgery. in
the Farmer's Advocate

## and Hole Magazine.

thi leading agricultural journal in the DOMIITION.

JOHN WELD, M
 Winnipgo, Man.

London, W. C., England.

- TERE FARMER'S ADVOCATE AND HOMR MAGAZINE


 - ADVERTISIIN RATES. Sill inter insertion, 20
- THE FARMER'S ADVOCATE is sent to subbc
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arreiraces must be made as roquirod by tance. All peyments of
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Addrese-THE FARMER'S ADVOCATE, of
the william weld company (Lirte),

| Lompon, Canada |
| :--- |

pharmaceutical preparations, and in microscopy.
Under various trade names, it has leen put upon
the market as a "harmless." preservative of food the market as a " harmless " preservative of food use in any quantities as a preservative of foods. which formalin is devoted. It is cheap, and not violently. poisonous, though, taken internully, : ing to the eyes-like oil of mustard. It may be purchased in quantities of a gallon or more for supply on hand it is liable to waste, heing be remembered that to the ai

## REGISTRATION REQUIREMENTS

this office, inquiring whom should be addressed foll forms of application for registration of pure bred
stock under the Canadian National Record system, there appears to be defect in the Record system, there appears to be defect in the
system, in that the name of no oflicer is pullicly announced to whom
registration lees and othe
fact that four letters
received at this offioe
week, asking for this informat
as evidence of the acuteness
published the statement that
announcement of the Record
correspondence for such infor
correspondence for such intio
dressed to the "Accountant,
higher-degree members are in cont
with the name of that importan
appear to be only business, and in th
the Record Association, as well as
throughout the country, that some
public announcement of the requirements
néw system of registration should be kept
the people interested for their information

THE EVOLUTION OF ROADS.

## HORSES.

 the space, of Canadian roadmaking. After the blazed trail and the corduroy, a few arterial highways that the pioneers and the stage coaches used were flung across the country, and a network of concessions and side-lines appeared. Being a new country, land was no object, hence roads of magnificent widths and imperfect construction. The complicated, go-as-you-please statute-labor system of roadmaking and management was instituted the commutationanage and the inauguration of the "Good Roads" movement, ushered in another evolutionary period, through which the country is now passing In the early days, speed in laying the roadbed was the one essential, hence fundamentals wer disregarded, and people forgot the lesson of other lands, that eyen a good stone road for heavy raffic needs constant oversight. We are learn ing slowly the advantages of system, thoroughness and simplicity. When we say " system," we do not imply that the same plan is applicable in every municipality or on every road, because of he variations of surface and subsoil, natural loprinciples are to be observed. Graded to a fair crown and thoroughly drained first, a light coating of gravel (not stones and rocks), undoubtedly gives a better wearing finish to the road, but in a at reasonable outlay, and besides not available at reasonable outlay, and, besides, gravel is nota panacea for all the ills that roads are heir to in a country of intermittent frosts, snow, rai How spells.
e problem. What earth roads is, therefore, a should provide is some means of ricipal machinery care on every " beat," with drag, leveller and
car shovel, so that a hole will not be permitted and grow into a rut and culverts may be repaired bemunicipality. How are these earth roads the managed ? Once graded and drained, can they b left to shift for themselves? Most assuredly
not. What they need is surface cases, the eflicacy of this, voluntarily done, has general demonstration. Recognizing the force of this, Mr. A. W. Camplell, Deputy Minister a Commissioner, has kindly as Provincial Highway Competition, for the awards in a split-log-drag Competition, for which two sets of prizes, one for gregating $\$ 100$, are offered by "' The Farmer's AgFocate." According to the "The Farmer's Adsimply make and use the implement according to son prior to Oct. 15th. The day for the closing if the entries. Which are to be sent to this office. ough demonstration we hope to ses a very thorough demonstration of what the pople can ac
complish ly a simpie and ceonomicul WHAT TO DO WITH THE INDEX

DR. STANDISH ON HORSE PRODUCTION The following address was delivered Brunswick audience. It is good straight \ew and worth reading
the seriobject of horse-production should not only becausideration of every agriculturist prices when offered for sale command such high this Province that many medium animals nually brought in irom other Provinces, but ancause they are such a strong factor in all agricultural pursuits, being the motor-power in all
successful farm operations: and, as it is able to have as much power in every horse desir farm as can be obtained, I consider it advisable to produce large horses in every class, whether be light harness horses or heavy horses. And cause: First, they are useful for farm and other work, and profitable when offered for sale; sec-
ond, they can be worked younger than ond, they can be worked younger than other
horses without injury. They can be wor two years old, and, if carefully handled, will at the better for doing so ; and the work done should pay for food consumed until they arrive at a marmand good about four years on, when they comcated; at least every farmer can educate edu-horse-that is, teach it to stand, to walk well and draw a reasonable load, Fourth, they are not so liable to become diseased, and small blemNow, while 1 recommend the heavy horse, I essary to produce high-class light-harness or sad dle horses, and applics that skiil, he can get a of an animal than for I believe every farmer should produce horses sufficient for his use, and some to sell, as good
horses are as profitable on the markets. But inferior ones are not. while ordinary ones will repay production, they are not nearly so protitable as good ones. Therefore, the to do so, the to produce high-class animals, and, liar with the desirable characteristics of the class he wishes to produce, and he should take the form and action that commands the highest prices Then, study the breeds, and decide which one. possesses the characteristics he desires in the highest degree, then adopt that breed and stay with
it. Select the best mares her it. Select the best mares he has or can procuremate to a stallion properly conditioned her and desired conformation, and a long line of pure breed-
ing through desirable fand ing through desirable families-that is, families of superior merit as to form and action. Keep the
best females, mate them in the same careful manner as at first, and satisfactory results wilb fol low. (astrate all male foals and place on the
market. Never kepel market. Never keep a cross-bred or on the
animal entire. Never use an engrel is not pure-bred and of the breed your temal that are, or are grades of oi the hreed your females
to breed in beginning then deciding as is not any cross-bred or mongrel with it, as there than a pure-bress-bred and mongrel that is better when cross-breeding is practiced, as hy the result ing it is possible to obtain a pure-bred draft therefore, I will not the case in cross-breeding ; with it, never cross-breed after the breed, stay never use a sire that is not pure-lred first time,
line-bred through high-class fang
$\qquad$
it bridle wise, and educate
path to reasonable work in draw light loads put to reasonabil marketable age, good market and a satisfactory price will ho. ob
tained, while considerable pleasure has been enjoyed while producing the money profit As to breeds, there are four recognized, viz,
The Cllydesdale, Shire, Percheron and IBelgian, ant not one of them has a patent on draft character
istic, and all have good individuals and fanzilies istic, and all have good individuals and faliilies
in their breed. Therefore, it is not only the
breed that requires considering. breed that requires considering, but the care, feed
and education as well. One very important thing and education as well. One very important thing
in horse-producing is the conditioning of the sires, which cannot be done unless the animal be exer and I like 10 have them worked, of course, in


## MANITOBA HORSE-BREEDERS MEET

$\qquad$ ./ Whereas the annual mas unanimo, isly adopted:
met of the breeders' eties-the Dominion Clydesdale Association, Shorthorn
Breeders' Association, and other kindred associations Breeders' Association, and other kindred associationsare heta
by making it impossible for Western men to to attend
these mectings; therefore, be it resolved : That in the nese mectings; therefore, be it resolved: That in the
pinion of this Association such meetings should be解d albout the same time, and that we consider a suit The ellection of officers resulted as follows: Presi Wishurt. Portage la Prairie. Directors representing the
arious breeds-Clydesdales, Andrew (iraham, Roland Shires, F. A Stout, Westbourne; Hackneys, T. Jasper Harding: Theroughbreds, W. W. Fraser, Winnipeg tandard-breds, Stephen Benson, Neepawa; Shetlands Tas. Bray, Porage la Prairie. Auditors-Geo. Batho
and Ir. A. © Hopkins. Representative to Winnipe
Evilitition Ir. S. J. Thompson: to Brandon. Will Xicoll: to Killarney, J. (i. Washington; to Neepawa 1. Irwin, (Itydessdale men passed a resolution, asking the fominion Clydesdale Association to appoint John Tirham. "f Carberry, the representative on their
lirectorate of the Manitoba breeders of Clydesdales

CLYDESDALE REGISTRATION an a recent meeting of the directors of the Amer seconded hy Mr. Clarke, Rule 4, referring to registra dale stallions of mares by sire and out of dam both Whose sires and dams are also recorded and bearing

## LIVE STOCK.

## LIVE-STOCK LECTURES AT OTTAWA.

ae iublish below a digest of the lectures on live

THE SHEEP industriy- - Less than fifty people Fof. (: E. Day, of Guclph Agricultural College, spoke ancouragingly upon the advantages of sheep-raising to of wool and flesh, nnd also the inexpensive buildings and little labor required in connection with a flock of
shep,. The advantages were well brought out, as well as the benefit done the soil by the tread of the golden Mr. Robert Miller, of Stoufiville, Ont., spoke upon
He stated that it was - prospects of the industry. He stated that it was - pure-bred flock for breetling purposes. At the pres are sold down close. Last year Mr. Miller sold to one customer $\$ 25$.no0 worth of sheep, and these, he be
lisved, have given their breeders a profit of from 30 to
40 per cent. Te has during the past few weeks been per cent. He has during the past few weeks been shree could not be procured even at high values. Mr
Millir sees a great outlook for mutton and lamb, be a Caste for the flesh of these animals. Butioners ning to mature the meat on the hooks. which
mproves its flavor and tenderness. The flesh wholesome, and every farmer who keeps even ock can have fresh ment on his own table
harm, but. a large flock ...... injure pasture for cattle straw. This allows the escape of moisture, and pro-
stock. He considers stock. He considers where the pigs sleep, were objected to for the reason
At the conclusion of Mir. Mill, roncerned. address, Mr. C, that they are usually damp and cold. He uses sleep-
Inmes, the chairman. fices for all farm producr. His reaton was the unu fulness possessed a lower purchasing power. its plentic made chairman, at the conclusionation that the speakers had brought Mr. John Jackson, with a model Sourhdown wether udging sheep. He went over the animal point by point, showing what a judge should look for. He order to be assured that the eye is not deceived by
the wool trimmer's art. Mr. Jackson stated that indging at fairs is much butter done than it was year go, before judging schools were held
The session dovoted to the bacon industry was pre ided over by Mr. C. C. James, Deputy-Minister of Agriculture for Ontario, who at the conclusion of each
address and discussion upon a subject presented valu-
able deductions and observations upon the cuestions at issue. The winter housing of swine was treated by Messrs. The winter housing of swine was treated by Messrs.
J. E. Brethour, of Burford, and Wm. Jones, of Zenda. Mr. Brethour, of Burford, and Wim. Jones, of Zenda
Mr. Brethour arrived at the conclusion that the
When one thas housing of swine is a necessary evil. When one has a
large number of hogs the less housing they get the hetter it is for their health and thrift. This winter Mr. Brethour has fifty brood sows running in the open
with only an old barn with a straw loft overhead for protection. They are fed outside all the time, which


Baron Columbus (imp.) (6106)
Clydesdale stallion; bay; foaled in 1905. Sire Raron of Buchlyvie. First
class, Ontario Horse Show, Toro Ito. Imported and exhibited by Smith
Show, Toro ito. Imported and
fine vigor. He never has lameness nor digestive de fine vigor. He never has lameness nor digestive deopen air. The litters are now coming vigorous and trong, and have abundance of milk; these conditions eing considered a direct result of the open-air life of Mr. Brethour considers the movable cabin the idea house for wintering swine. He would have them
warmly constructed and free from drafts, but the doors warmly constructed and free from drafts, but the doors so arranged that the pigs can go out and
He would have them portable if possible.
ery well in these cabins after they are three month bld. Pigs being finished for market are better housed nore closely, as in this way gains are more cheaply made. Farrowing sows should be kept separate from
other pigs, and a stable where cattle are kept is an ideal spot for both sow and litter. In answer to a question about cooking food, Mr.
Brethour stated that he feeds all feed steamed and arm, but he did not consider it profitable to spend
uch on steaming food for only a few head. All his much on steaming food for only a few head. All his difficulty from getting sows too fat when they have lenty of exercise in the open air which keeps them ac-
ive and hardy. Exercise, fresh air and generous feed ing, we have also practically an unlimited market for Mr. Jones agreed with Mr. Brethour in regard to hog-raiser is the production of the sort that finds he importance of exercise and outdoor life. He con- favor as bacon in the large consuming centers.
$\qquad$
hould be as dry as possible, and a wooden pen was The session devoted to heef-raising was well atconsidered the best. He advocated a ceiling with tended, there being about 200 persons in the lecture-

THE FARMER'S ADVOCATE
proftable method of raising steers. When calves ca can bo got rom otsuid milk at arter they have reacescod the who raiesed wooll callves without millk netter they a man
 trom ail milk to all gruel takes atout two means
Prof. Day
Decomments
boiled meal to be ted with skim milk, because the oil of the seod takee the placee of the rem beveause treame Ho oul ot thened
 foeding. He would commence with one tablespoon o
flaxseed at a time, and increase it to half a pound in faxseed at a time, and increase it to half a pound in
two weeks. It should be well boiled. The calves ar taught to eat as early as possible. The evils of over eeding were dwelt upon. It was pointed out that calves. Ten pounds of milk per day up to old was said to be the maximum for safety. It may
then be increased to then be increased to 15 pounds or 18 pounds during
the next two weeks. theid to be the most that any calf should of milk was
seren day. As-supplemental food, oats and oil cake is and good mixture. Prof. Day prefers
and oats for calves getting skim milk. and oats for calves getting skim milk. The too com-
mon practice of under-feeding calves the first winter mon practice of under-feeding calves the first winter Their growth whould be continuous.
Speaking of the cost of gain at different ages, the
verage of a large number of feeding trials conducted at experiment stations was given as follows: From
 24 to 86 months, $\$ 9.59$ to $\$ 12.54$ per cwt . He argued from this that the earlier a bullock is finished and turned of the more profitable is the transaction. As
a rule, steers should go at 24 months old. At that a rule, steers should go at 24 months old. At that
age a finished steer may-be held a few weeks without age a finished steer may-be held a few weeks without
loss, while an older, steer costs more to hold for a higher market. Again, the buyers are looking for the
younger ones. younger ones
Om being
On being asked whether it pays. to feed grain on when the pasture is good. He told an enquirer that calves should be housed in a cool, roomy, clean building, such as a sheep house in summer. To keep them in a close, dirty box stall is bad practice, from the
standpoint of the animals' future. Milk, he stated should be always fed at blood temperature. he stated, vent calves sucking each other, Prof. Day recommended stanchions, which can be closed while they are taking efore the calves are liberated a little meal should be fed indulged in

patrons, who sent in their reports for prizes in the
Western Ontario Dairymen's Association competition.
These ranged in their average returns from $\$ 62.50$ to
10.61, and the lowest were grade Shorthorns.

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f $200.00 held up for years to the won by a Short-
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bhow. Although there are more Shorthorns registered
in Ontario than all other hreeds
has yet to be won. At Guelph,
has yet to be won. At Guelph,
has been said about milking Sh
only one cow that scored high
at the show of 1906. Here at
none of them reached the standard
prize. Another case in point was cited
vell known to many bought a Shorthorn
figured high in a dairy test. He was so
with her that he bought two others of the
xpecting they would also be good milkers.

## develop milk production in the beefing breeds, but a ways keeping beef production as their proper sphere <br> MORE ABOUT SHEEP AND DOGS

 profit. The dual-purpose cow has a place on beefprodiu producer's farm. The man who wants to keep his sons satisfied milking cows to-day, must keep cows that
will make it worth their while, In reply to Mr. Clark's expressions at speake dence in the milking Shorthorn, Mr. Robert Miller stated that fully 90 per cent. of the milk supply
the City of London is produced by Sill This, he stated, is done by farmers who thorn cow the greatest possible profits from their farming secura tions in order to live. Mr. Clark wanted to kno why none of the bulls from these cows were ever im ported, and he was told that such a bull would bring
about $\$ 100$ in Canada, while the thick Scottish ling bring $\$ 500$ per head.
Mr. Robert Miller Mr. Robert Miller judging beef cattle, demonstrated by the champio
stear. Replying to a lecture o
R dion steer. Replying to a question as to how this stee Said that he had sucked his dam for nine of Greenths ank he had about all the chopped grain (chiefly oats) pulped roots and clover hay he could eat during the two years of age. He had never been allowed his graze.
beEf, WIth all the milk we can get

## Editor

that I I should in your issue of the 7 th inst., requests as touching two or three questions which explicitly No one will mistake my meaning in taking the position of Sheater attention should he paid by the breeders their cattle. Few will care to criticise that position. agree with meth advocate it. But Mr. (Good will agree with me that that is scarce the same as saying
that we should seek to develop a dual-purpose strain within the Shorthorn breed. The mutton sheep grows
wool, but the attempt arpain wool, but the attempt to improve, in some degree.
quality of that wool would not be misunders mean that the purpose of that attempt had heei create a "dual-purpose", of that attempt had heea
are still mutton sheep are still mutton sheep, even though they grow she
Beef cows are still heef Beef cows are still beef cows, even though they gi
milk. I think my article suggests my reasons fur lieving that the adoption of the dual-purposens stand hard
would be an unwise and unprofitable policy, and thrse
suggestions need suggestions need not be repeated now.
Will not question about the nomenclature of the Good's other suckle three calves in the season? The cow that will
the purpose in selection will have something and
to do with the classification of such a cow, aod breeders of beef
stock do not consider it a lack of merit in their catile stock do not consider it a lack of merit in their cattle
in the evidence of their capacity to give milk. Further,
it has been with the idea of in expense that the above of economizing in labor and
been followed. The milking calves ha
cof cows, the separation of cream, the making of butter and the feeding of the money, and it is still my belief that when the farmere.
desires to make money out of the dairy business he will be wiser to breed and milk dairy cattle, cater to special dairy market, and do it in a co-operative way,
Mr. Good further asks where calves can be obtained to put on such a cow. Sometimes they can he bought hangs a are fairly goodpect. His id ideas about wome can only keep a limited number of cattlo. Making practice.

 about the same time, and the possi, wility of doubling their sheep agrainst loss that they are all wanting,
up in any case frees the farmer from milking one cow for the season, since a calf can usu- property to be insured that always insures and
ally be obtained to milsuring ? We the cow for the second fiw ally be obtained to milk the cow for the second file statement that because dogy frequently hear the
months. This has been a common practice on many We all reconnize that this is a controversial ques of sheep worried to provide a fund for the paymens dogs ion. We can scarcely all expert to arree upon it, and examination it is not heem hall right, but on closer
I must thank Mr. Good for the courtesy of his re- wrong. The that it is all view in the discussion, and I trust that it may be so
understood.
H. S. ARKFII. FOR HOME-BRED CATTLE, HORSES, AND BOYS.


Possibly some of your readers are thinking am dead and buried, or else so much ashamed ${ }_{94}$ my article in your issue of January 17 th , pag any who may be entertaining such notions. would say I am still living on the farm on which I was born, and in the enjoyment of fairly which health, notwithstanding somewhat severe criticism powder till the other fellows had burnt theirs and now, if you will be kind enough to grant space in your valuable paper, I will reply to some y, and I suppose the better way is to mo severe the order in which they appear. The first noticed is on page 202 in your issue of Feb. 7 th over the signature of R. L. Holdsworth. 7th,
states that I complain of the injustice dogs and using the money to reimburse of taxing sheep for their losses by dogs. Now, anyone, by
referring to my article of January 17 th, can see advocate taxing complaining of taxing dogs. Advocate taxing dogs. 1 am only complaining o
the unfairness of using said taxes as a fund pay for sheep destroyed by dogs because fund to providing the fund from the dog tax, the man having no sheep, at all pays as much into the man ing his article still further, I notioe that he makes the statement that I suggested that the makes main at $\$ 1.00$. He must have completely lost rean 11,1, will refer, for if he and the rest of lost
that the word article, they will for whole article " remain" does not occur in the would be to tax What I said was that my plan every extra dog, etc. The reason and double for are at present; but the statututes will allow, as they on dogs being raised, because each mon the tax requires a certain amount of each municipality
get a goodly sum from dog and and if get a goodly sum from dog tax, our and if they
other things will be lighter,
goes goes into the general fundi. It would appeng tax
Mr. Holdswarth mided the dos on
In Wr. Holdswarth must be very much afraid of dogs
while travelling on the highways hery young boy now, and I have travelled not a experienced any and by night, and I have never irom dogs, neither while walking nor driving. If take my whip and when I am passing, I do not to outrun the dog, but slow my morse and try
and talk to the dog in a proalk and talk to the dog in a pretty emphatic a walk
I do not mean that I swear at hion Giseless in the case of dogs as any, as that is as
give him to understand that it lor him to go home and mind his own business
and that 1 would mind mine dog walked off as if ashamed of himariably the tou Mr. Fitor, I find l less difficulty in teaching
the most of dogs what is right for themer than to teach some men what is right for them
to do. The next writer, Mr. Misner, on page 203,
thinks I did not go far enough. I hope this will please him in that respect. His ideas about some have a good deal of trouble to put them into
practice. their sheepanot fail to see that it is insurance on r property to be insured that always insures and
pays for insuring? We very frequently hear the
ctatement that because dogs kill sheep all dogs examination it is not hard to see that it is all
wrong. There are but a very small per cent. of
logs that kill sheep, and when they are discoveren,
it is right that they should be destroyed, and that
the owner of cuch dom
burse the unfortunate one who lost: and is it would make $\$ 96$ in calves, besides the month's
not equally ausurd that, because some dogs kill not equall dog-owners should pay a fixect sum into
sheep, all
and to reimburse owners of sheep who have fund to reimburse owner
come to loss through dogs?
Now, I must close, as I feel I am taxing the
space in your valuable paper too mych. apology for doing so is, that 1 have some very
Perlls to deal with.
Perhaps some of your thick skulls to deat 1 am some good-for-nothing camp who does nothing but tramp through swamps Tho such 1 would say I never owned
shoting and never spent half an hour hunting. gun, and never spent half an hour hunting. I
might say, too, that $I$ own as large and as good
a fock of sheep as the average farmer, but 1 do not want those who have no sheep, at all to pay as much into a fund to insure them as I Io ${ }^{\text {I }}$, ${ }^{\text {I }}$ want justice to all parties. ALEX McCAIG. want justice to
Wellington Co

0
believes in watering in stable
In reply to the questions asked re the watering of stock, (apes-and-basin system ali through my stable. My pipel was dug underneath the barn. The pump-
wead high enough to throw the water into the head high enough to throw the water into the
tank at one side, the water runs from there to the regulator, then throughout the building. The system I have is about as expensive as any to in-
stal, but 1 consider it the best. I know of other plans that cost much less, and, 1 suppose, work satisfactoridy, the tank referred to in a previous issue, \&3.50, and 50 cents for a barrel to stand in
the passage in front of the horses, from which the passage in front of the horses, from which
they are watered with a pail, making the total
are have basins enough for thirty heal cost 89 . I have tasins enough tor chirty head
of catte. If 1 were putting it in to-dy, I culd
and get it put in for 810 or $\$ 12$ less. The cost of
the well, of course, depends on the depth. Mine cost, for digging, brick and pump, about $\$ 22$. I have
been pumping by hand; we have the handle low
 long asa required to have the handle to which they are attached low enough to reach, and the spout
is above the handle. It works well. I am fixing
it to it to run with a dog whel, and, by the way, for
pulping roots or pumping water, the dog wheel
knocks all other powers silly. The cost is small. knocks all other powers silly, The cost is small,
and most dogs enjoy the work. There are scores and most dogs enjoy the work. There are scores
in use in this section. This is the second winter
for my water system. Its advantages are: Less In use in thits section. Its advantages are Less
for my water ssstm.
labor; the catlee get a drink just when they feel libe taking it, and it is not ice-cold, as it would
be if outdoors. Milking cows, 1 am satisfied, will be if outdoors. Milking cows, I am satisned, As
do better with the water always betiore them. As
for disadvantages, I have faiied to find any yet. The only thing I find against leaving the water
before them is (and I don't call it any disadvanbefore them is (and I don't call it any disadvan-
tage) we get into the habit of leaving the stock
in the stable a little too much. Still, if a person wills, he need not get into that habit. It may be a touch of laziness; quite a bit of work, you see,
to let out the cattle and tie them in again. On the other hand, 1 think it would be a blessing to
the stock and money in pocket to the owner if there was something to encourage their being kept
in more by a great many farmers. As you drive in more by a great many farmers. As you drive,
along the road, or look across to the neighbors'
and see the along the road, or look across to the neighbors
and see the cattle standing around the stack or
hugging the side of the fence from early morn till hugging the side of the fence from early morn till
late at night, shivering with the cold, perhaps cold drink, it is not human much less profitableI do not advocate keeping them in all the time; let them out every day or two for an hour if it is
not too cold. I think it is folly to build warm
stables and pive stock plenty of feed, and then turn them out to drink cold water and shiver. Summing it all up, I consider a farmer cannot
spend his money to better advantage than to place the water before his cattle in the stalls by whatnot be without it if it cost twice what it did.
SAM. J. PYM.
$\$ 96$ WORTH OF VEAL FROM ONE COW. Ninety-six dollars' worth of veal calves is a
pretty good year's production for one cow, but
down in Halton Co. last month we saw a three-year-old heifer which was suckling her eighth calf, besides having been milked a month by hand. She
was a smallish, plain-looking heifer, owned by Mr W. s Chisholm, of Mansewood, Esquesing TownShip. As a two-year-old, she freshened on April
12 th .1905 , raised two calves that brought $\$ 12$ each, and was hand-milked till March, 1906. She two more calves, each of which sold to the local butcher for $\$ 12$ when 200 pounds in weight.
Th.. heifer was then milked a month, but, being harn to milk, calves were employed to continue
the most of the time she was nursing two. As son as a calf attained a weight of 200 pounds
it wis sold for $\$ 12$ to the butcher. At the time

## LIVE-STOCK RESEARCH

interest and expend the bulk of its its intensest cultivation of the soil can become or remain perat the Minnesota State Fair, from which the above is a quotation, receives significant if un-
intended witness to its truth in the recent annual pany, of Chicago. Discussing the future American agriculture, Mr. Hill, with the vision of a seer, drew attention to the rapid disappearance
of arable public land, and to the probable increase in the next few decades of the country's increase tion, and confronted his audience with the problem of the world's food supply. In a masterly way he compelled a consideration of the impor-
tance of agriculture in its foremost place among the nation's industries, and into the realm of an imperative national duty he relegated the problem of the sustenance of the people yet to be, which
might find its sole solution in the attention given might find its sole solution in the attention given
now to the productive development of intensive agriculture.
Chicago is the greatest live-stock market the American continent, and probably the greatest there were recorded receipts of nearly $16,000,000$ animals, with a total valuation of over $\$ 317,000$,000 , The shipments of cattle were 40.6 per cent. of total receipts; of hogs, 24.0 per cent.,
and of sheep, 28.0 per cent. The size of the marand of sheep, 28.0 per cent. The size of the mar-
ket, with its consequent influence upon or even
control of most of the other larger markets, place


Bachelors' Hall.
it in a position to very actively reflect the status even of the American continent. Very briefly, then, may we give a digest of the substance of
the Chicago Live-stock Company's report, with further word or two upon its comments upon the general live-stock situation.
The receipts during 1906 at the Union StockThe receipts during 1906 at the Union Stock-
yards, Chicago, were the largest on record yards, Chicago, were the largest on decrease of cattle, hogs and horses to a total for the year of 9,521 cars of live stock, or about 3 per cent. as compared with the receipts of 1965 . The average weight of cattle, eliminating calves, was
$1,1122^{\text {辛 }}$ pounds; of hogs, $232 \frac{1}{2}$ pounds, and sheep, 81 pounds. Cogs, 232 pounds, and of rially over last year's prices, but there was a de-
pression in price of medium and inferior pression in price of medium and inferior grades
during a part of the year, due to the agitation against the packing-houses. On the whole, the highest prices were realized in December. Hogs advanced in price over $\$ 1$ per 100 pounds, with a
yearly average of about $\$ 6.30$. There has been yearly average of abo fremendous demand for and pork products both at home and abroad. The forthcoming supply of hogs all over the continent has been somewhat under normal, and, with the growing demand,
high prices are expected. The lowest price was high prices are expected. The lowest price was
paid in January and the highest in July. Although there was an increase of 68,891 head in receipts of sheep and lambs over 1905, the high
average prices oi that year were fully sustained. average prices of that year were fully sustained.
Nverage values ranged from $\$ 4.80$ to $\$ 5.70$ $\$$ verage values ranged from $\$ 4.80$ to $\$ 5.7$
for sheep, and from $\$ 6.25$ to $\$ 7.40$ for lambs
.i Then "/ The public demand for mutton is still growing, and with little prospect of any great increase supplies, present values are likely to be main
tained. A feature of the year has been the un precedented strength of the general demand for
horses. ${ }^{\text {a }}$ The total receipts of 126,979 for the

1905, were sold for the largest total amount ever realized in a year from sales of horses on any market." While there was a decrease in the number of head of live-stock received during the year, yet there was some gain in average weights
and a substantial increase of prices, especially for hogs ; so that the total valuation exceeds last year by nearly $\$ 17,000,000$

Present conditions indicate that there is no longer a great waiting surplus of cattle or of hogs in the country, and firm values are expected
for both. In reference to cattle, it may be quoted that the higher prices were paid for the
choicer grades. Apparently meat products are choicer grades. Apparently meat products are
not being produced in excess of demand, and, in not being produced in excess of demand, and, in decidedly encouraging for the future as to prices. The country seems unable to furnish an adequate supply of draft horses of sound quality, bone, and
good conformation. Never before has there been such a demand, and prices have ruled accordingly Drivers, coachers and carriage pairs are also
selling at record prices. "There is no uncertainty as to the future of the horse-breeding proposition, provided the right kinds are produced and properly fitted for market.
A comment is made upon the magnitude of the live-stock industry, in that the live stock of the
country is valued at over $\$ 4,000,000,000$, and we have the statement that the industry seems to be entering upon a new era of better conditions and better prices, with the prospect of the most pros perous year in its history. The admonition is
given, however, that the industry must be safeguarded by the production of more corn, and that it can find fullest development only in the realizathe corn or grain raising area cannot be material the corn or grain raising area cannot be material-
ly extended, and, therefore, that only by intensive methods of agriculture can the industry keep pace with the increasing demand for
meat products at home meat products at home and
albroad in correspondence with the growing population of the country and of the world. But further provision for more com plete reciprocity with consum
ng nations promises a direc benefit in a material way to the American farmer in making possible an interchange of surplus
commodities. The welfare of the nation depends welfare of prosperity of the farming community, and it is to the mutua benent of all nations that there
should be reciprocity in the should be reciprocity in the
marketing of the food products of the farm.
Not valueless to the Canadian farmer are the lessons to
be drawn from the report of this great world market. Conditions there must necessarily reflect nd exert an influence upon our
own. May we gather; also, ood for thought from th e the light of this report, and in careful to providently husband the natural heritage and nesource of the farm. There is a future, too, for
BRUCE.

INSPECTION OF FEEDING STUFF In response to an enquiry regarding the Federal Hon. Wm of leeding stuffs for the use of stockmen, Ottawa, advises us that there is no bill before Parlia ment dealing with this matter, and it is not the intention of the Government to introduce one at this session. The subject, however, was raised for discus sion during the passage of the bill for the inspection Minister of Agriculture. Mr. George Taylor, M. P. read a letter from one of his constituents, complaining of the imposition of farmers being sold, at fancy prices, under fancy names, foods of very little value. and cereal works was sold, he declared, at from $\$ 22$ to $\$ 26$ per ton, when really it was more, fit for fuel than should have some means of knowing its feeding value. Hon. Mr. Fisher conceded the force of these contenchins, but had as yet been unable to discover the mawas foreign meet the difficulties of the situation. It be provided for therein. There were such a variety not be provided for therein. There were such a variety of most impossible to classify or control them. Mr. Fisher stated that such foods were being constantly analyzed at the Central Experimental Farm laboratory, and information given out to those interested. This, he
said. they were ready to do at any time. He intimated, however, that these millfeeds varied greatly in nutritive quality at different tiras, depending upon the
working of the mill machinery, so that one analysis working of the mill machinery, so that one analysis of a given hran
at another time.
The necessity of Federal action has repeatedly been
and in "The Farmer's Advocate," and is growing
more necessary every day, for the reason that
 the mills and cereal factories are turning out more and
more of these products. suggest that our readers avail themselves of we would of the Department of Agriculture to make analyses UNDERTAKER TO THE DOG Editor ". The Farmer's Advocate that $\mathbf{J}$. W. S., o' Russel Co., wad like my opeen-
ion on dogs. Weel, be on dogs. Weel, 1 'm dootin' that it will na'
bim or onyone else muckie gude tae ken
my mind on the my mind on the subject, for it's a michty poor
opeenion I hae o' the creeters at best. I was telt no' lang since by a vera respectable young wumman that she had heard there was three things that I couldna' abide on the farm. first was wimmin, the second was hens, an' the there wis na' a grain o, yen, Meester Editor, that the second, weel, ii ye dinna' hae a wumman dinna' want hens, but as for the third an' last,
she hit the nail on the heid she hit the nail on the heid, if a wumman never
did it afore. Noo, I ken weel what I'm the aboot when I class the average dog as an unmeetigated nuisance. I hae' had, conseederable exper ence wi' dogs o' my ain, an' wi' dogs o' my nee in particular, an' wi' dogs that must ony longed to the Auld Harry himsel', sae if ye will permit me, I will juist be relievin, my mind by When I was a wee the subject.
a dog to be chasin' cats an' such like thinge an' when they, would tell me to gach like things, in the mornin' or at nicht, I wad aye tak' my dog alang, an' ye will ken weel that the coos did na' linger by the wayside when they got on
the hame stretch. If twa or three o' them wad na' gie doon their miik aifter the race, sae much he better, the job was the sooner done. Hoo ever, when, I cann' tae the years o' understanding
I pit awa' childish things. The last dog I wis a vera intelligent brute, an' as I got him when he wis a wee pup, I resolved tae follow Solomon's advice in regard to bairns, an' train
him up in the way he should gae. But it wark ony better wi' my dog than it often na wi' the bairns, for he got intae the habit o serendain' the passers-by, an' wad follow them he wad mak' an end o' expressin' his hame afore them. I min' weel o' ane auld fellow in a skin coat wha was upset oot o' his sleigh one day vera gude. 'The dog lost roads were na' to say portunity wi' the coat, an' it was a lucky thinfor the coon wha owned that skin. that he wing na' inside it. But the profanity o' the man was
a caution tae unbelievers a caution tae unbelievers
Anither time he
funeral o' ane o' oor weel respictit' neebors the tae see him rin up an' doon the church aisle, an' onto the platform, an' atween the meenister's
legs, ye wad hae' thocht he wis the legs, ye wad hae thocht he wis the undertaker
himsel'. When I got him hame, I says tae hinl
.' My "My boy, I see ye like fine tae be gaein' hin funerals. so I am gaein' tae let ye gae to on
mair. I hope it will be nane the less interestin ae ye because of it bein', yer ain."
I hae'
hasiness never heen sorry that trainin' for me, an'
impressed
logs are juist the fact that the great majority Wha wis gude lor nuething.
As tae this question o ' say I'm in favor o' the tax. My reason is : First the means o' lessenin' the number ${ }^{\prime}{ }^{\prime}$ ' curs that highway tae bomin oot o' every gate alang the by. Anither gude reason why dogs should gat
on the assessment roll is the one which has led ae all this disc
the sheep-killin
object tae payin a small tas for what he thinks dae like the Russian Cowromment is datein the face o the airth. canna' show his tax receipt juist .army the that camme as I heard an auld chap crime to tak' awa, frae
often lecomes
mair especiall
of which we
oor Provinc
able tae dae. There is m
in that ither
mon because heolish, impra
dozen gude reas
raither than for what he has


#### Abstract

keep the dog, he maybe will be lookin aroond for a companion o' anither species to tak' its place that will na, be anither species to tak' its place does yer dog tax will hae' saerved the country weel in mair weel in mair ways than one, for ye ken it pays muckle better to raise boys than pupies muckle better to raise boys than puppies. An question, and for, yer satisfaction I wad juist say that J. E. M., o' Glengarry, is o' the same mind as mysel' on this subject, so dootless he will be pittin' dogs an' manure spreaders in the same class.


A GOOD DOG A PROTECTION Editor ". The Farmer's Advocate
Editor "The Farmer's Advocate":
I have read with interest the diferen
your paper on the dog tax. I a carree tent letters in collie is not likely to kill sheep; it is the that a pure-bred
mongrels in the mongrels in the towns and country. I think $\$ 1.00$
plenty for a tax, and if my dog dog is caught killing sheep, we have a perfect man's pay in full the value of the sheep killed or damaged I do not agree with Mr. H. Misner, that the owner the dog that kills the sheep should only pay one-third
of the damage and the council the the same as a thief. If he is caurght. It is just the full course of the law; he is not let off by one thind of the law, and the council go to prison for the
rest. I consider a good collie a splendid animal I consider a good collie a splendid animal on
the farm; a great protection in many ways. I keep few sheep, and my colliection is a great friend of my mepeep,
The dog and sheep are fond of each other they will both drink out of the same pail. I I think a grey will
of the trouble lies in men like who never keeps a dog, and whose sheep will run Who never keeps a dog, and whose sheep will run if
they see a dog; and a great deal of trouble lies in
men that have dogs that men that have dogs that are roamers, and not traine
to do just what they are told. I would not keep dog that would not do as he is told. The collie have will not make friends with strangers, either tog sheepmen would keep dogs of this hindines. It all would
drive every strange dog off that comes around, anl. drive every strange dog off that comes around, and
besides, he is a great protection to my children, play
ing around where cat ing around where cattle and horses are near, he will collie worth as much as a boy at lots of things fol
work. I have had a collie that would work. I have had a collie that would go a mil after
cattle alone, and bring them quietly home, and ho lenve it, and watch the cattle and piys from it woukd would not consider that a man who kepps a dog as
2llove should have to pay $\$ 5.00$ or $\$ 10.00$ for a tai. as Mr. Holdsworth recomments, but I would rather will not keep a dog, be fined $\$ 5.00$ or $\$ 11.00$ for not
keeping a dog, so his sheep would not run if they ser or hear a dog. If a dog is not well trained he will
run after such sheep, and very are. which the dog. would not hale done had not the
sheep) started it. What 1 would recommend in the dog. a pure-bred dog, well trained or mot, to kee;
housind his own

THE FARM.
AN EXAMPLE IN EARTH-ROAD MAINTENANCE
$\qquad$ piles of rocks have been crushed, and caseap great Ourselves by calling macadamized we flatter Though their construction, condition and the ex-
ponse of their maintenance are enough to make
the shades of Nr Water the shades of Mr. Macadam rise from the scottish
heath in protest. Then we have roads on which
hundreds and pyen thouchels hundreds and even thousands of dollars per mich
hate been spent in gravelling. This penerull
pasults in thone
means of maintenance. The earth roads of hive country may be made good, and,
traffic is not too heavy kent traffic is not too heavy, kept good by three
(1) Deainage, including, in many (1) Deainage, including, in many
drainage ;
(2) judicious grading : quent, timely use of some cheap, simple (3) th such as a leveller or drag. Wonders maplement with the leveller. That greater benefits be done been derived is due to the way in which in not
been used-or rather neglecter personal experience. Past the Let us recite has runs a piece of road about the writer's old home
Throughor Throughout its entire length is and a half long. amounting to a total fall of about 200 feet. Trate,
surface material is clay loam labor system, Under the statute and dump-scraper, whill time was spent with plow hors would hitch their teams on to two neighscraning down, and spend a leisurely half day scraping the road. Though this was the work performed in the season, still it was ne
done as it should left till too late in the The first scraping was until great pitch-holes har been formey would wait spots, and big ditches washed out by water fort lowing the wheel tracks: then, when the road had
become dry and hard, they would levome dry and hard, they would go on with thei lumps, fill holes, and repair damages. By the into cash toxes commuted half the statute and abor into cash taxes, and bought a grader. Hence-
forth the leveller was used still less- per. a year. Instead, some time in June, when once grader, with hard and dry, along would come the would be made to put the horses, and an effort Under this system the road road in shape again better, and tho need for the grader increased od labor was Finally the balance of the statute appointed a man on each beat to commissioners when necessary. To the writer of this article ing of the heat described above. Convinced that he decided to gide the accomplished by the leveller he decided to give it a lair trial. Instead of
using four horses and scraping twice a year, hitched on two horses oi aiout twice a year, ho hut used them oftens The first scraping was done thronghout the seasong as possible: aiter that, at all cut up, it was promptly the road became seven or cight scrapines had an from forming iect Ir eight scrapings had an astonishing efas a particulur a long time, though the season dollar's worth of grading was found all, not either of those 1 wo vears. There was no damage
ior the grader to repair. The expense of the scraping was less that the Tormer expense of the
annual grading : the strange pararting it the results intinitely better. The
mitted the wiof that, while everytody ad tenance. since then oi that system of of road mainmork, and the old state oi affairs exists once
more Councils are looking iar atield for some grand
scheme of revolutionizing the art of roadmaking,
instead of instead of making the most out of roadmaking,
inexpensive means at their disposal. Gimple,
all right in theil all right in their place, but the grader is too
expensive an implement and expensive an implement, and cannot be used often
anough to keop) the roads in condition nough to kerp the roads in condition. For this
we must rely upon some simple implem we must rely upon some simple implement, tuch
as the leveller or the split-log drag. It is not
eass to their fields call who will drag the roads when weakness of the leveller, such as was used on the oan described. The splitlog drag, being intend hence there will he more chance of on the fields, Therefore, let us try it. Sendl in your application
(.) The Farmer's Idrocate. . Fintries cloce Match trath and use the
manure spreader pays its way Editor "'The Farmer's Advocate"" Advocate .. ren manure mpreaders
mith interest, and would say in
spreader, that I do not think the
 quen using the manure spreader,
are putting the manure on the men putting the manure on the groy hey handlo, it
are
that they get that much bettee that will, in a short time, give them the price of
machin. I have been using ore for wo jears.
would not go back to the old way of siverading
nure at all. About the time to spread manure I Io not agree from stable and spreating it on the lang the manure
ground is frozen and covered with snow. "hen th. that too
in the s.
the effect
in the spring when the strongth of the manure goes away
ount of
intries grontries where they out of mat havure. as may much do do to
ground to come out in the spring as we mave pile outside of stable and yard, and load one large pile outside of stable and yard, and lood it onto
spreater and take to tield and spread either on pasture
land, or else on the meador, as soon as hay is cutt this manner than any other wood out of manure in in ine tried, as
we get an abundance of grasy or hay the following
two sensons.

 ap, as I Io not like to let it stay in pile during opens
weather, as $I$ believe it diecreases in walue, but $I$ Id
not think in pile until hase much by the cow manure being left ing, and when sproad direct on the keeps it from heat that comes takes the strength of manure to the roots
of rasss. Now, my spreader has been used for two years, not
mly on my frme but has been rented to several the neighbors at $\$ 1.5 n$ per tay. nont has earneeva a nice
ittle sum for mee, and it has not cost me any more
than sio all tod than $\$ 10$ all told for repairs, natd the greater part of of the
hat expense was the fault of the company, ns the get new spokes in them and tires set. Now, IN Think
the man that thinks that two men can spread manure
he that
 hey cannot, and keep it up day atter day. experience that Those are
hy viems re manure spreader, and are open to criti-
osm.

## THE EIGHT - HOUR DAY

Editor "The Farmer's Advoca
Cate " are aware, the labor unions are trying to pro
cure the establishment of an eight.
by having an Act passed by the Dight-hour working day
naking eight hours a legal day Dom
making eight hours a legal day. It is our duty as
farmers, and the heaviest taxpayers in Canada, to con
sider
sider how such a heaviest taxpayers in Canada, to con
ould affect us, and act promptly
We know that even under existing circumstances it is almost impossible to get sufficient help on the farm
and that in some cases, if there is work to be done atter six oc comek, che fes, irmer must is dork to to be done
many himelr, for
mared hands will do nothing atter hours. Now. eight hours constituted a day in the thowns, Nowen more of the country boys would be lured into towns.
and our position would be that much rarse. Most of our farms are not producing more thn half of whit
they should produce, solely on account of want of
 If manth of the country.
If mancturers are forced to adopt an ei, ht-hou Cles would be increased, and wir would to obligeed to Evon at the start. and supprosing it possible that

$\qquad$


$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Whole, let us immediately write to our representatives Ottawa and urge them to wote down this vicious Ittawa and urge th nonsensical measure

## PRACTICAL FARM DRAINAGE

Having determined the grade and dug the ditch next operation is to remove this remaining six
inches, leaving the ditch-bottom with an even fall throughout. The accompanying drawing will ai
in understanding the method to be described.

RADING THE HITCH
Two cross-heads are set up 100 feet apart, on
at stake 6 , and the other at stake 100 . Both are put 7 feet above the ditch-bottom, the latter hus being higher than the former by the amount 00 ft ., then cross-head 100 is set just 4 ins. higher han cross-head 0. The stakes must be stout, and driven firm in the ground. A light cord
binder twine does very
well) is ight and tied over the cross-pieces-so tight that higher than the other, this cord has the
same fall as the ditch-bottom is to have, and hence if the latter is made parallel to the cord it provide a light testing stick, 7 fect long, since the
ord is 7 feet above the ditch bottom narrow shovel, the earth is gradually removed un
il the stick, standing iil the stick, standing on the bottom, just passe s deep enough at that point When every poin年tween stakes 0 and 100 just tests 7 feet from the overhead line, the grade of this section is uni-
But how shall we place the cross heads 7 First
Fove the ditch-bottom
litch at - We must determine the depth of the O another tile drain or into an open ditch. the using the drainage level (described in the first article on this subiect) and the measuring staff as follows: Set up the level, as directed in the
first article, and sight over it at the staff, which

placed first one surtee of the grom second on the bottom of the main drain or of the have the depth of the ditch at the outlet. Suppose, for illustration, that it is 3 feet 5 inches.
Second.-We must determine the height cosspiece is to be placed above the pround This is done by subtracting the depth of the ditch from he length of the testing stick; i. e., if the ditch s 3 feet 5 inches deep, as supposed above, cross
head 0 would be 7 feet -3 feet 5 inches $=3$ feet $z$ inches abcuc wound. One end of the cross piece is nailed to the stout stick at this height
(3 feet 7 inches) ; the eross-piece is then levelled leet 7 inches) ; tree tross-piece is then levelled
by means of the carpenter's level, and the other Third.-We must find a point on stake 100 just he same height as the top of cross-head 0. To To this, the drainage level is set up about halfmoved up or down on the standard, as the case nay he, until when adjusted it is found, by sightthe top of cross-head 0. Then, by sighting toward stake 100 , as shown by dotted line, a point
is found which is also on same level as the top cross-head 0. This end oi cross-head 100 is nailed just 4 inches higher than the point shown by dotted line, the cross-head levelled, and the
other end nailed. Cross-head 100 is thus exactly Why place the overhead line seven feet above he ditch bottom? Six feet is not high enough to clear the man and his shovel. Eight feet
would be more than is necessary. For any other would be more than is necessary. For any other
grade than 4 inches in 100 feet, cross-head is grade than inches in 100 feet, cross-head is dotted line. When the Grst section has been graded, and while the line is still strung, it is
wise to lay the tile, so that they may be tested to grade by the same line, a notch being cut in to grade by the same line, a notch being cut in
the testing stick at a distance from the end equal
to the outside diameter of the tile. When the line just meets this notch, the tile is in the proper
grade. After the laying has been finished, crossgrade. After the laying has been finished, cross
head 0 is moved to stake 200 , and set the required amount higher than cross-head 100, and section. It is not wise to allow the rain is liable to occur at any time, causing the sides to cave in
in spots, and in other ways interfering with the in spots, and in other ways should be protected to prevent sediment entering the tile while the earth is becoming set. Sods placed with the grass next the tile, make an excellent protection. When the drain has been filled, a ridge should be 12 inches higher than the land on either side, and o a width of 8 or 10 feet; otherwise large quantities of water are likely to collect over the drain and soak down through the loose soin, sometimes gradually forming a channel beside the tile, washing the soil away and allowing one or two lengths o roll out of line, and thus partian or block the drain
Ontario Agricultural College.

THE SPLIT.LOG DRAG COMPETITIO RULES AND PARTICULARS.
o sets of three cash prizes are offered, ne for Eastern and one for Western Ontario, an imaginary line running due north from Yonge St., Toronto, being the dividing line. The first prize in each case will be 2., Any subscriber to "' The Farmer's AdvoMarch 27th, 1907, of his willingness to construct March 2 ha , explained below, nd use it at least iive times during the summer before October 15th, at his own discretion, on a mile of ungravelled arth road of his own selection, preferably the mile from his gate towards the nearest town. ppicunts must give full name, post-office adres.s and railway station or stations. r. A w behalf of the Provincial Government, . A. W. Campbell, Good Roads Commissioner, udging Each piece of road will be inspected as arly as possible in the spring, und again after he conclusion of the trial on Uctuber 15th. The wards will be made according to the results food showing, it may be well to choose a bad ather than a good piece of road, though no limitations are imposed in this respect. Each competitor will be required to keep and present writing to the judge a statement showing the he dates on which it was done. This statement will not be used in making the awards, but is The results of the competition will be written up and illustrated with halftone engravings in The Farmer's Advocate.
Send in your name at once. Let us have ozens from every county in the Province. We ney in the cause of Remember, the time sur entering the competiion closes March 27th Address your letters, as per rule 2, to "' The Farmer's Advocate." Lon-

How to make and use the drag
The two halves of an 8 -foot $\log , 10$ to 12 both flat sides to the front. The cross-wieces are wedged in two-inch auger holes bored through he slabs. If working a clay or gumbo road, it thing of that sort) on lower edrea ure, or someof six munths; for softer soil, at end of twelve mouths

## LAST CALL FOR THE EARTH - ROADS COMPETITION

The Farmer's Advocate " is offering two sets of prizes, $\$ 25, \$ 15$, and $\$ 10$, respectively, fov
Eastern and Western Ontario, for the best result effected in the maintenance of earth roads this wo issues past we have published in Drag. For and conditions. Mr. A. W. Campbell, Provincial Commissioner of Highways for Ontario, has kindMarch undertaken to make the awards. Entries close March 27th. Address "Farmer's Advocate", the drag and use it at least five times on make of road before October 15th. Send your entry will be. Even should you not win a prize, you having the drag.

## AN EAR OF CORN FOR SEED.

From an address by L. S. Klinck, Macdonald College Winter Fair
Can Ontario produce her own seed corn? From conversation, observation and experimentation,
believe she can. I have reference now chiefly t


Dent Corns.
$1-$ Pride of the North.
$3-$ Bailey.
Ontario's corn belt-a district, so far as commercial seed-corn production is concerned, practically embraced in the
EIgin. In 1906, for our corn work in Ste. Anne de Bellevue, we obtained seed corn from thirteen the fact that we had a cold, backward spring, the corn averaged 90 per cent. germination in the dield. The man who has made careful field-ger-
mination tests will be the one who will most apmination tests will be the one who will most ap-
Macdiate these results. Sweet corn, grown at the Macdonald College the past season, yrown at the
Mat at the rate of 106 bushels oi shelied corn per acre of thoroughly-dried seed corn. The only fertilizer in spring. Seed of flint corn was obtained in the Eastern Townsinips, Quebec, and planted at
Ste. Anne. Althougin it was not planted until Ste. Anne. Althougin it was not planted until
the 6th of June, it was periectly matured three the 6th of June, it was periectly matured three
weeks before the frosts were sulliciently severe to injure the foliage. This plot was one-quarter of an acre in size, reoeived no artificial fertilizer manure, and yielded at the rate of 65.9 bushels of
shelled corn per acre. Undoubtedly we have yet much to learn regarding varieties, cultivation and handling of this important crop, but by co-operating with nature, my fears for ultimate success are not grave.
Consciously
selected in a crude way for centuries has been that in harvesting the crop it was necessary to handle each ear separately, made the selection of tively easy matter. It is true that by this method performance and real efficiency were often sacriiced to good appearance, as is too often the case character and strength, and possessing outward tion so far as conformation goes, need not neces sarily be a productive or a desirable ear to plant If, in addition to a good external appearance, the ndividual kernels are of the desired conforma
tion, we can more nearly determine efficiency of the ear, so far as feeding value is concerned, but it is only by a comparative field
test of different test of different ears that we are able to determine
the prepotency or projected elliciency of any ear POINTS OF A GOOD SEED FAR Conformity to Breed Type.-All ears intended
for seed purposes should conform to the desired standard in shape of ear and kernel, in color of grain and cob, in purity, size, uniformity, filling
of butts and tips, indentation of crown (in the of butts and tips, indentation of crown (in the
case of dents), depth of kernet). space between case of dents), depth of kernel, space between
rows, straightness of rows, and proportion of corn to cob. Conformity, to a desirable type should be insisted on, as it has ween repeatedly demonstrated that pure-hred varmens pive not quality than that produced by nondm ing. No variety of corn, no hat
ductive it may be, can ever ho favor and become widely known if favor and become widely known if
justify its existence on the ground
ness alone. However prone we may be to overlook the wsthetic side of grain production and
lay emphasis on the financial results, somehow we all insist that an ear of corn have those evidences of breeding which give such added interest and Efficienction and conformity to a fixed type are not antagonistic.
Shape of Ear.-The shapes of ears will vary from the cylindrical to long, pointed forms, acthey have been grown. Ears full and strong in the central portion are most desirable, as they indicate a high per cent. of corn to cob and corn of superior feeding qualities. An ear properly constitution and high yield, as a correlation exists between ears and the kernels of which they are composed.
the dent of Kernel.-A good kernel, especially in strong and plump at the tip, and should carry it sides well up to the crown, giving a strong, full shoulder. The germ or chit should not only hav a large surface, but should be carried well down
to the back of the grain. The germ is high in oil ; the hard, horny part of the kernel is rich in protein.
In selecting an ear of ,orn for seed, always re
move two or three kern "o and study the nection with the ear. If the kernels are unde sirable, reject the entire ear, even if to outward appearances the ear is good. Many a poor ear
is used for seed or show purposes which would


Dent Corns.
never have been considered had the owner removed
a few oi the kernels and them before making his final selection cal study of strong, and made up of straight rowical, full and of kernels coniorming as closely as possibleose those in the center of the ear. A full, rounded butt is indicative of strength, and adds the ele sirable to character to an ear, but it is not de loo constricted, as there is a danger of become ening the shank to such an extent that the ears areak off prematurely. Open or swelled butts are always objectionable.
body of the ear, shouid be in proportion with the naturally. The rows should be straight, and shape and indentation of those in the center of the ear. Too much attention should not be paid nels here are not so valuable for seed or the ker to this, when undue attention is directaddion danger ears well filled out at the tip, there is he ear in the most valuable part. of shortening Purity of Color in Crain and Cob.-Strict ad
herence to a uniform color is taining purity or freedom from mixture in mainaricty. The degree or depth of color in in any ith the question of mimportance when compared

nols thet true to color are removed if all the
an
kernels on the same ear, although apparently pure,
are in reality of a different origin. the direct effect of pollen on the silks, ways shown in the color of the silks, is not almay be confined to the embryo. This being the
case, it is not good practice to plant for sed ear having many fixed kernels, even if all any kernels not twue to color have been removed the the influence of the previous cross-pollination may at any time manifest itself in subsequent generacorn should have red cobs Uniformity of Kernels.-Under this heading is
considered not considered not only the uniformity of the kernels its kernels with the rest of the sample. As and kernels on the butt and tip of an ear cannot the form closely to those in the center, they are shelled off when a uniform sample is desired are seed. Blocky or irregular kernels in the central jectionable than if they were found at the ends. as it is much more difficult to remove them. important, especially when a planter is used, as a lack of uniformity renders it impossible for any
planter to drop the desired number of kernels to
the hill. Vitality -The word vis Vitality.-The word vitality is not restricted
to a kernel's ability or lack of ability nate, but is used in the widter sense to indicat its strength and probable reproducing power when it does grow. A kernel full and plump in the tip and having a bright, vigorous germ is most
desirable. Kernels weak and pointed at the tion desirable. Kernels weak and pointed at the tip
do not have a sufficient store of reserve food to give the tiny plant a strong start in life. All such kernels should be discarded.
and the exercise of more accurate painstaking judgment than that of rightly estimating the relative discount that should be made for different evidences of immaturity, or for signs of injurious
effects resulting from improper storage effects resulting from improper storage. In many estimation of the germinating power of any sample is to make an actual germination test. different types of immature kernels value of the found in selecting seed corn were conducted by the writer in the field and in the greenhouse. Five classes were experimented with, and the conclusions drawn from the results class. for the statements regarding each was found or Cob Adhering to Tip of Kernel.-It often does in immature ears. was not sufficiently detrimental to warrant discarding such kernels turity, as the growth of these kernels, both in


Sweet and Dent Corns
-Duke's Improved Sweet. 8-Golden White Cap.
Black Tips--Kiernels with the tip cap removed, well when planted covering of the embryo, grew field conditions gave a good standse, and under is intended as a protection for the young plant planted in a cold, wet water readily enters. If ly rot, but when planted under favorable soil and climatic conditions, give but little indication of impaired vitality, These statements apply only
the cob on shelling, The black, skin-like cover- Proportion of Corn to Cob,-It is practically IMPROVED METHODS IN CORN CULTURE.
 every arace only when it is exposed through re- Inent varieties will range from 78 to 86 per cent
appearan apoval of the tip cap in the process of shelling. Wrinkled, Blistered or Shrunken Germs.-Kernels showing the order in which objection should
arranged io the
rotaken to them. Corn stored in a very be taken to them. Corn stored in a very warm
place will shrivel and become uneven on the surplace will shrivel and become aneven an apple, when left in a warm room,
face, shrinks irregularly from its outer covering, leav-
ing ridges and depressions. Unevenness on the surface of germs due to this cause should not be
regarded as objectionable, but a shrunken relistered germ is very serious if the covering
bis the germ is raised to any considerable extent as
a result of exposure or freezing. The vitality of a result of exposure ist invariably greatly impaired, wholly destroyed
Starchy, Shrunken or Blistered Backs, -When to bister the back of a kernel, its chances fo germination are poor. This is one of the
strongest indications of injury resulting from im-

 properly, A kernel depressed on the back is
usually
unticient in the hard, horny, glationous $\underset{\substack{\text { material } \\ \text { starch }}}{ }$
Condition of Germ, as Tndicated by Its Cutting
Qualities Quaities. - A properiy-developed and carefully
dried germ cuts readily and presents an oily ap pearance. It is light cream in color, and can be
cut in very thin layers which roll up like shavings. If kiln-dried, less oil will be apparent,
and in cutting the lavers will breokk rendily frozen germ, on the other hand, lacks this healthy,
oily appearance. it is tough and tlast unless the knife it sharp the gerrn is sure to glistening, soggy appearance.
Size of Far.-The length and circumference the ears chosen must be governed by the locality
in which the corn is grown. The tendency has in which the corn is grown. The tendency has
been, and still is, in the direction of growing varieties too large to mature properly. This is grow a smaller corn which will mature ever
year, than to grow a large corn which seldom ever ripens properly.
In dent corns, the proportion of length t,
circumference should be as four is to three an ear ten inches long should measure seven
inches in circumference about three, and one-hal inches from the butt. Short, thick-set ears are
inclined to have tong, dep-set kerels inclined to have long, dep-set kernels, which
makes it impossible for ears to dry out readily in the fall, unless the variety has been careadully depth of kernel. It is, of course, advisablic. to grow as large and deep-grained a variety as can
be sately depended upon to mature in any given locality. So widely that it is a more difficult matter to establish a fair proportion, As a general rule
the production of long, pointed ears should in liscouraged, as they are almost invariably poorly.
fovered at the tip. Space Retween Rows.-Wide spaoe is undesir
ande in any but deep-grained varieties. It yenerally caused by rounding of the crowns $A$,
there is no good reason why the kernel should not arry its sides squarely up to the shoulder, and
thus fill practically all the space with corn. wide spaces are severely cut. In addition to the serious loss occasioned by
his conformation, the chier ground for obicction to them is that they are an indication of de-
generacy or reversion to a more primitive type. rows are frequenty paired, the inner siden of the
rows forming the pairs dovetaling, the duter sides Seing carried up straight to the crown, giving a
squarc., blocky shoulder. In the deeper-grained ariet ives the rows are seldom paireder-and and the
furrows are much wider. This is a wise provision of nature, making it possible for the depp-grained
corns to dry out more readily.
Flint varicties are grown where tho eseason is short. Naturally,
the atnount of space between the rows is great and the amount of space between the rows is great and
the kernels flinty and rounding on the crown. While open rows are objectionahle, rows having tain amount of space is necessary for maturing
the kernels. If this space is too limited, the kernels almost invariably show wide space be-
tween the kernels at the cob, and as the tip is tween the kernels at the cob, and as the tip is
the minst valuable part, the importance of having it full and well developed is apparent. The pres-
ence of these wide spaces between the kernels accounts for the fact that so many close-rowed
ears are so light in weirgt and shell out such ears are so light in weight and shell out such a
low percentage of corn.
 large ear will shell out more corn than a much smaller one, in selecting seed corn, close a mittention go to make up a solid far. To ascertnin the proportion of corn to col, weigh the entire car:
shell the ear, and find the weipht of prain


Flint Corns.

ain and for the silo, retty hile corn is grown for graio, with exception of the Counties of Essex and Kent, the 'improved dent varieties are not in general use, many people
believing that the small gint varieties are much believing that the small dint varieties are while, as a matter of fact, there are many varieties of the dent type that will produce from 25 to 40 per cent. more to the acre, and of the fint type. That the heavier corns may be planted to advantage more generally, was shown last year in fields of Leaming ripening sufficient to obtain good seed
north of Toronto.

It has been demonstrated that the south-western coun ties can produce heavier-cropping corn than is usually years ago Reid's Yellow Dent was introduced, not without apprehension, but it has been found that it matures here as
readily as in the corn belt of readily as in the corn bert Ili-
the States of Iowa or nois.
The first requisite to a
and crop of mature corn is good crop of mature corn is corn weak in vitality will grow under favorable conditions and produce a fair crop
but if the weather should but if the weather should
turn cold and wet immediate turn cold and wet immediate great chance of loss, as it will not remain alive long, and in prolonged unfavorable
weather will rot, while seed weather will rot, while seed
strong in vitality will remain in the ground a long time without injury, and when favorable weather does come,
will come on at a rate that makes up for lost time. Under similar and favorable conditions, there is ten days' to two weeks' difference in
the maturing of corn of vigthe maturing of corn of vig-
orous seed and that of poor vitality. corn should be Seed corn should be
bought on tha cob, and every ear to be planted sub-
jected to an individual test he weight of grain by the weight of grain and before planting time, and a day thus employed a and the result will be the percentage of corn. will save many dollars, much time, and insure a uniA large proportion of corn grown averages
considerably less than the avera of
ber of varieties, as the result of years of careful hreeding, exceed the average percentage. While it is desirable to grow corn giving a low per cent. of cob, there is a point beyond which it is
not safe to go. There seems to be a proper proportion or relation existing between the corn an portion or relation existing between the corn and
the cob bearing it, and beyond this point the reeder cannot go without seriously endangering


Method of Storing Seed Corn
CANADIAN CORN-GROWING
grown corns illustrated in this issue were furnished by Mr. J. O. Duke, of Essex County, Ont. and afford an encouraging idea of the splendid reon Ontario farms. The ears are just good average samples. We had them photographed and enaraved as an object lesson. a trifle less than onethird the size of the origi-
nals.
will save many dollars, much time, and insure a uni-
form stand. This is done by means of a germinating box. Two or three kernels are taken from different places on the ear to be used for seed and placed in this box, which contains moistened sawdust. The seeds and ears are given numbers to distinguish them, and the ears whose seeds show
any weakness are thrown out, and only the most vigorous planted. if possible farmer should grow his own seed corn, get it as near home as possible Much should get it as near home as possible, Much loss is
now sustained by planting corn which is brought in from the States, as it does not do well when moved any great distance, but will soon
adapt itself to conditions of climate and adapt itself to conditions of climate and soil. By
growing one's own seed, great advantan growirg one's own seed, great advantage can be
gained, not only in that the plant will become more adapted to the locality, but since, as nothing responds more quickly to a little care, the crop can be greatly improved through judicious
selection and pruning. By selecting and planting the early-maturing ears, the type can be made much earlier; and by proper detasselling of those stalks which have inferior cobs or none at all, the percentage of nubbins and of barren stalks can be
greatly reduced in a few years. It is not ally recognized that the present yield of grain could be increased from 30 to 50 per cent. per acre if every stalk bore a well-developed cob. This, ments' close observation will show. Actual mohas proved that a very large proportion of the stalks as now grown bear no ears.
Corn bears a very important place in the ro tation of crops. The thorough cultivation ro-
quired to tion, ridding it of most weeds and grasses. Clover is the ideal crop to precede corn, and should not be plowed too early in the spring, but allowed to
grow quite a top before being plowed under Clower seed may also be sown in porn fust under. it is cultivated the last time. The best stands can be obtained in this way, and a good winter To be successful in the soil should be made as mellow as of corn, the the seed planted as soon as the land has been thoroughly prepared. Cultivation should begin four or five days after the corn has been planted
weeder; this may be repeated when the plant has
four to six leaves. Aiter this, it should be cultivated once a week with a smali-toothed implement and the land kept as level as possible until the plants get so large as to break when touched by horses or implement
The best results
and being rowed both ways. Planted thus, the crop can be more cheaply grown, as it need never be touched with a hand hoe if cultivated at the hand-hoeing when one man with a brisk-walking team can do more execution in an hour than he A great mistake is made by and thickly. An old rule, that any seed should deeply be planted more than two and one-half times its own depth, applies admirably to corn, and three grains is enough in a hill ; one bushel of seed will such as Compton's Early, Longfellow, and sume other small-growing kinds, may be planted $3 \frac{1}{3}$ feet apart each way. Leaming, White Cap Yellow Dent, etc., should not be planted closer than 44
to 46 inches, while Reid's Yellow Dent dees best when planted, while Reid's Yellow Dent does best varies greatly with the condition of soil, manner cultivation and variety.
will yierd favorable conditions, the flint varieties early dent varieties, 100 to 125 bushels, while Reid's Yellow Dent has produced as mush as while
bushels of ears in Essex County Essex Co., Ont. Essex County. J. O. DUKE. [Note.-All th
in this issue, with the exception of corn illustrated Dent, have been grown in Essex County, and fo ago. Each variety is grown on a -Editor.] variety is grown on a separate farm

TRADE IN AGRICULTURAL SEEDS
In diseussing the commerce of seeds, at the Eastern
Live-stock and Poultry Show, Mr. G. H. Clark
Seed Commissioner, of cerent Commissioner, quoted the average yield sible in part for the quality of seed used was respon farming and weed growth was the main methods o profitable crops. Twenty-nine samples cause of examined in the seed laboratory for weed seeds, "
were found to contnin wer tound to contain numbers of them, varying fron vital. The object of the Soot, about $50 \%$ of them teing
merchants merchants to provide infornation Act is to require seed
ers to buy seed enable farm ers to buy seed grain intelligently. If they want not help them wild oats and mustard, Parliament ca Fully $95 \%$ of the grass and clover
Canada are timothy, alsike and red seeds used i imports largely of tinothy from Minnesota, Canad the clover seed grown in Canada in the one-half of years is exported. Europe is the natural marke Hamburg being the largest distributing point for seeds
in the world.
pean seed trade, by which farmers obtain the Euro-
showing showing the percentage of purity and vitality with the seeds they buy, there is a wide spread in prices in favor
of the good clean cleanings are offered and sold ine poor qualities and they have no system of seed control. of such low-grade seed was sold in Canada in late years, through the medium of jobbers in the tra Seed Control Act has been effective in checking this
evil. This year, on account the American red clover seed crop, large shipments in seeds are coming from Europe and Southe shipmen
best seedsmen have imporica. great deal of that imported a No. 1 article, mum standard fixed in the Act. The farmer the mint that inferior clover seed, at the rate of ten pounds per per acre. Farmers who want to escape from that will reliable firm. The term "Geovernment Standard". by applied to seeds not prohibited by the Act, and should not be taken to mean seed of No. 1 quality.
Dodder and clustered dock are very common in the Dodter and
imported seeds.
ountries, but may not are noxious weeds in othe There are many species be dangerous in our climate
red-clover dodder, but the fact that ed-clover dodder has never been found in Canadian srown seed, alth
times, is good evi
northern climate.
ittle permanent in oping that farmers antlo experience
red-clover seed that is being imported this year, han
they will receive much benefit from using the sored ill plant from that seed is better
ariety."
their good seedsmen know the per
gardeners should buy their supplies
Seed selection
Mr. T. G. Raynor, Ontario representative
paid to this very claimed that too little attention was are wanted, but as I have already said, get right paid to this very important problem to farmers. Farm- to the plain, honest facts, and then it will be of in in both, viz., to leave their generation the richer be the question. If you adopt the systenly one side cause of the stock they improved, or the seed they accounts you will be sure to become of keepin farm recently the fanning mill was abs apply to both. Until in your work, and in everything pertaining to farm selection. This selection could be the only method of life. If you are a man up in years and have a form one more thoroughly should be reduced to three for seeding. This selec-
tion, while between the good, fails in not being able to distinguish

$$
\begin{aligned}
& \text { every item of income derived from the farm, but have } \\
& \text { him keep a diary of current events, and everything the } \\
& \text { is }
\end{aligned}
$$ seetween the plump seed of large heads and the plump

seem small heads. It was show. sults of the Macdonald-Rohertson shown, from the rethe yield and quality of seed could be improved by selecting plants. The Canadian Seed-growers' Associaplan of their metgrowth of this system, and the general fits arising from that system. Observations we bene respecting visits to a number of the breeding plots this summer on affects of cultivation, smut, and maturity upon the yields of grain crops
the yields of grain crops.

INSTITUTES - FARM ACCOUNTS - DAIRYING COMMUNICATION

$$
\begin{aligned}
& \text { encourage that boy to keep an account, hot a son, } \\
& \text { every item of income derived from the farm, but of havo }
\end{aligned}
$$ is going on from day to day. In order to make that point a little clearer, I will give an idea of how my plan, but this will suit the you may know of a better First buy a book for the purpose, about $8 \times 10$ y well. Be sure to get one with good paper, and always us. ink, not a lead pencil, when writing in it. Rule it

off something like this: two pages, and if you get the book having 32 ruled
lines, one for each day in the month, lines, one for each day in the month, and one for the
headings, you will find it most convenient headings, you will find it most convenient. I got
the idea from an old and successful farmer, who had kept a well-arranged diary most of his life. It is
now twelve years since I started a diary farm accounts, and would not pive it up on any ac-
count. Our education of to-day has a tendency to educate our boys away from the farm. Why is it that so
many of our boys, born and reared on the farm, think
it more honorable it more honorable to stand behind a counter, or do do
office work in cities, when then owners of a nice farm, be their might be the proud come when they like, and be able to spend their even-
ings with wife and family? Much of this ellucation can be taught our boys right
in the home. See that they have plenty papers and books to read; encourage them to keod farm in some branch of the farm, let them attend farmers
ineetings in their neighborhood meetings in their neighborhood, and encourage them to
vin some prizes at the seed fairs win some prizes at the seed fairs and autumn exhibi-
tions. All these things will surely tend to creat hature. Why, the farmer is the hang in hand with dependent man on the face of the earth, and many inrented their farms and went to the city, soon came
lack satisfied there was nothing quite so soond after are looking well. Dairying whifh winter, and stock are looking well. Dairying, which has been so profit-
able during the past year, will able during the past year, will likely be done on a
larger scale next season. The farm stock, which, on
account of the feed famine much reduced at that time, but now are being stocked up, and the summer of $190 \%$ will find the number of ing more interest in the care of their armers are takthem better both winter and summer, because feeding it pays. This question is being discussed at our Insti-
tute meetings this winter, ". loos it pay to feed for milk production," and the almost unanimous opinion was 7 cents per pound and butter 16 or 18 cents, andese he factory patron was paid off with 50 or 60 cents-
and 1 have known cents, and hurdred pounds for their milk-we then thought what
a great thing it would be to the able to send to the condensing factory and get 85 to 95 cents for hur summer milk, and about $\$ 1.25$ for winter milk per ting that much from the tocal cheese and butter gettory, and some have been paid noese high as $\$ 1.40$ act their door, and and they have their milk hauled from
wheproduct, either skim milk or deed, a peturned daily in the cans. Yes, dairying is infor the approaching season is most encouraging. Fresh
milich cows are wilch cows are now changine hant encouraging. Fresh
While a real chout \$40.00,
that one will bring much more than frozen potatoes in that the long-continued cold has
prove of the farmers' cellars. This proves the necessity of planting a wind-break about
our buildings, as it is the wind, together with the obtained, and if protected from spruce bushes are easily Chipled this fish (smelts and eels) industry is rippled this winter, because of the round about way
" market, and the heavy freight rates. Prince ExWard Island is shut off from the outside Prorld to a If even the Liberal members and supporters were
 piling up: why not spend a few millions to connect the
Island with the rest Island with the rest of the world? But in the mean-
time we should the unanimons in? steamer from the Capes. which is certainly Nature's of nine miles from the Island in winter. Just think 35 miles from Picton to Georgetown, P. F. I., and the former route, almost daily, has long strips of open
water, made so by the meeting of the tide on water, made so by the meeting of the tide in this. the
narrowest place in the Straits of Northumerland All that is place in the Straits of Northumberland !
All cess. is a proper wharf on either side, and proper

The different Farmers' Institutes are now holding
regular meetings, and they are The farmer is a busy man, but he should never be tol busy to attend some of those Institute meetings, and hy his presence, as well as his experience, try to beneît first-class farmers do not attend, and impart to others different branchehes of agriculture. We naturally look the


Ent down to facts ancless, of their calling: we

$\qquad$
$\qquad$

[^0]CEMENT GRANARY FLOOR SATISFACTORY
$\qquad$ had a cement floor in my granary for eight years, and I raised the floor about eighteen inches with smal

## THE DAIRY.

SUMMER FEED FOR DAIRY COWS mer feeding of dairy cows? problem of short pastures? 3. Have you tried alfalfa for this purpose ? 4. What single grain, or mixture, has given Treaurs of these enquiries the most satisfactory To any one or all the etbove questions replies
are requested, based on experience
GOOD CREAMERY SHOWING.
$\begin{aligned} & \text { Much is heard, and with good reason, of the } \\ & \text { profits of the cheese factory during the past sea- } \\ & \text { son, but the report of the Princeton, Ont cream- }\end{aligned}$
$\begin{aligned} & \text { son, but the report of the Princeton, Ont., cream- } \\ & \text { sery, to hand, shows that the butter business is }\end{aligned}$
$\begin{aligned} & \text { ery, to hand, shows that the butter business is } \\ & \text { well able to make a highly satisfactory showing. }\end{aligned}$
It showed that during the year 135,960 pounds,
$\begin{aligned} & \text { or } 68 \text { tons, of butter were made, the total value } \\ & \text { amounting to } \$ 3074246 \text {. The average monthly }\end{aligned}$
$\begin{aligned} & \text { amounting to } \$ 30,742.46 \text {. The average monthly } \\ & \text { overrun was } 17 \text { pounds butter to } 100 \text { pounds fat, }\end{aligned}$
$\begin{aligned} & \text { overrun was } 17 \text { pounds butter to } 100 \text { pounds fat, } \\ & \text { and the average monthly price } 23.81 \text { cents per }\end{aligned}$
$\begin{aligned} & \text { pound. Buttermilk sold for some } \$ 300 \text {. } \\ & \text { Mr. Lamont, owner of the creamery, at the an- }\end{aligned}$
$\begin{aligned} & \text { nual meeting, referred to the cract that during } 1906 \\ & \text { an increase of } 27\end{aligned}$
$\begin{aligned} & \text { an increase of } 27 \text { per cent. had been made over } \\ & \text { the output of the preceding year. He explained }\end{aligned}$
$\begin{aligned} & \text { that prices realized at a creainery cannot be com- } \\ & \text { pared with newspaper quotations of Toronto mar- } \\ & \text { ket prices. the reason being that such que }\end{aligned}$
$\begin{aligned} & \text { pared with newspaper quotations of Toronto mar- } \\ & \text { ket prices. the reason being that such quotations } \\ & \text { refer to prices paid by grocers to commission mer- }\end{aligned}$
$\begin{aligned} & \text { chants, the freight or express charges from the } \\ & \text { creamery to Toronto, which amount to at least }\end{aligned}$
$\begin{aligned} & \text { one-hali cent per pound, being invariably added, } \\ & \text { as well as the one-cent-per-pound commission }\end{aligned}$
charged for selling by the commission merchant
$\begin{aligned} & \text { Me also claimed that, in spite of the very high } \\ & \text { prices paid for cheese in 1906, cheese had not paid }\end{aligned}$
$\begin{aligned} & \text { as well as butter. In comparing the prices real- } \\ & \text { ized by the North Oxiord Cheese Factory with }\end{aligned}$
returns irom the Princeton Creamery, it was
$\begin{aligned} & \text { seen that cheese had paid the patrons, } \$ 1.01 \text { pas } \\ & 100 \text { pounds oi milk. whereas the same }\end{aligned}$
$\begin{aligned} & \text { milk sent to the creamery had realized } 4.3 \text { pounds } \\ & \text { of butter and } 99 \text { cents cash. }\end{aligned}$
$\begin{aligned} & \text { of butter and } 99 \text { cents cash. This differenoe of } 2 \\ & \text { cents had been offiset by at least } 10 \text { cents per }\end{aligned}$
$\begin{aligned} & \text { cents had been offiset by at least } 10 \text { cents per } \\ & \text { hundred in favor of the creamery by the } 80 \text { pounds } \\ & \text { of skim milk fed on the farm to calves and hogs. }\end{aligned}$
Mr. Stevens, of the Bank of Hamilton, Prince-
$\begin{aligned} & \text { ton, noted that the creamery had been the mean } \\ & \text { of raising the value of farms and real estate in }\end{aligned}$
$\begin{aligned} & \text { and around Princeton. } \\ & \text { The manager oi the creamery, Mr. H. W }\end{aligned}$
$\begin{aligned} & \text { Parry, to whom its success has been largely due } \\ & \text { praised the quality of the cream and milk de }\end{aligned}$
$\begin{aligned} & \text { praised the quality of the cream and milk de- } \\ & \text { livered at the creamery, but claimed that there }\end{aligned}$
$\begin{aligned} & \text { was still room for improvement. It was abso- } \\ & \text { lutely necessary, he said, to cool the milk or cream }\end{aligned}$
separating, also to wash the separator milking or
t was used. In discussing the question each time
tion of cream test, Mr. Parry said that separa-
$\begin{aligned} & \text { or were rarely run at the correct speed, usually } \\ & \text { on slowly. The speed should le regulated by }\end{aligned}$

MOST OF COWS WERE ON THE LOSS SIDE Editor "The Farmer's Advocate"':
We have kept accurate individual milk records
ior about one year. The time occupied in so doing about one year. The time occupied in so
doing easily becomes a paying investment in the and comparisons. and barely reaches the totals ing recorls is that stable. Why we began keep-
our couss wished to know whether most of the profit or loss. We learned that as near as might te the ideal ration. We learned
that the effect to increase the milk flow tornips in winter was watest, that
regularity in hours of miiking, and by the same milkers. was hours of mikiking, and by the same
ately neessary; that many little things in connection with the care of cows were bronght to oornection with the care of cows
the scales. To sum up briefly, I would hang on the scales. To sum up briefly. I would say that
no
milh which are being discarded and put dry. of I have mentionen that dinst of our cows made a loss, as
is. I firmly believe. also true in thousands of

DAIRY SESSION AT THE EASTERN LIVE. STOCK AND POULTRY SHOW.


Martha Aaggie Netherland
Martha Auaggie Netherland.
Holstein-Friesian cow. Official record, 69 lbs. milk
in one day; nearly 18 lbs. butter in seven days. In auction sale of H. E. George, Crampton,
similar amount in a Babcock tester, and commenced testing his herd of seventeen cows and heifers., He fourd it occupied about half a minute per cow each
day to weigh the milk. He soon began to learn valuable lessons upon feeding, watering, changes of tem
perature, regularity in milking, and was able to guarr against many fluctuations in production that he had no knowledge of previously. At the end of his first year his thirteen cows and four two-year-old heifers had
given an average of 6,250 lbs. of milk, testing 3.8 ar given an average of $6,250 \mathrm{lbs}$. of milk, testing 3.8 per
cent. of fat. This was equal to 269 lbs. of hutter cent. of fat. This was equal
which, when valued at 22 c . per lb ., gave $\$ 59.38$ per cow. The average milking period that year was 280 days. The best milker gave 9,907 lhs. of three-per cent. milk, equal to 347 lbs . of butter; worth $\$ 76.34$
Another cow gave $\$, 585 \mathrm{lbs}$. of milk, testing $4 \%$, or 400 lbs . of butter, worth $\$ 88$. The poorest cow that year gave 3,157 ibs. of 3.7 per cent. nilk, worth in butter $\$ 39.82$. The best cow gave $\$ 48$ worth more hutter than the poorest. Two of the herd went to
the butcher as a result of that season's testing. Other rather poor ones were given another year, and made a lowing years. Mr. Stephen had not made up his rec Ords for 1906 , but the results for 1905 showed an in
crease in four years of 706 lbs . of milk, 1.01 per cent of fat, 52 ibs. of butter, and an increased revenue per
head of $\$ 11.79$. He claimed he could have increased the milk flow fully 1,000 llos. in 1905 , if krain had
been fed during the period of fies were bad. Mr. Stephen's address was well received. A few
men in the audience confessed to keeping milk records, and to finding great satisfaction and profit in so The care of Mr. Stephen's herd came up, and it was
learned that during the past fourteen years his cows
without ever going out of doors. He endeavors to keep his stable at abbut 55 degrees, but in very cold
weather it runs down to 45 degrees. When this he finds runs down to 45 degrees. When this occure head, in spite of better feeding. He has made repeated tuberculin tests of his herd and found no disease. He had no hesitation in stating that his herd was stronger and better now than it was fourteen years ago. Mr. Stephen feeds dimes daily when cows are iking twice daily when dry.

COW-TESTING ASSOCIATIONS FOR 1907. Dairy Commissioner J. A. Ruddick sends us the following list of Cow-testing Associations which will be in operation under the auspices of the Dairy and Cold-storage Branch of the Depart ment of Agriculture in 1907. Those marked with work of organization is still in progress, and it is expeoted that several more will be added to the list during the next few weeks. There are al ready 19 in Quebec, 16 in all
Edward Island, or 36 in ald Edward Island, or 36 in all.
Quebec.-"Henryville, St. Armand, *Pike River Cowansville, Mansonville, "Dixville, St. Edwidge *Hatley, "Coaticook, "St. Prosper, Lotbiniere, *St. Justin, "Ste. Therese, *St. Marc, "St. Julie,
*Chambly, "Upton, St. Camille, St. Jerome, Lake St. John. Ontario.-"Shearer, "Keene, CCentral Smith, *Pine Grove, "Warsaw, "Lorneville, "Beaverton, (?), "Cleall's (?), "East and West Oxford, "Spring Creek, North Oxiord, Princeton. Glasgow
Prince Edward Island. -"New Glag

## THE "BIG FACTORY

Editor "The Farmer's Advocate":
The East Zorra and Blandford Cheese and Butter Factory was built thirty-five years ago, and was at that time dubbed the "Big Factory," and it has allways merited that name. Last
year was not an exception to the others. The year was not an exception to the others. The
company distributé over $\$ 60,000$ to the 109 patrons for milk delivered. Last year 458,952 3 pounds of cheese and 30,472 pounds of butter were manufactured. What other Ontario factory and plant are estimated at $\$ 9000$ land, building One of my sons subscribed for "' The Farmer's Advocate" last November, and I may say we are much interested in the the paper, and are very pecially that of dairying. Wishing you every success in future.
Oxford $\qquad$

ANOTHER GREAT COW RECORD
In a 60-day test, a Holstein-Friesian cow, Dairymen's Association, has broken the wisconsin butter record by forty pounds. The official test shows $5,326.7$ pounds of milk and 266.5 pounds
of butter. The cow gave birth to a calf on Dec, 19th, and the test was commenced on the fifth dec. of her period of lactation. The test was continued 64 days, during which period every milking was watched, the quantity of milk-weighed The phenomenal yield was arate tests were ordered, the first of 24 hours and the second 48 hours, during which time additional representatives were sent from the experivision day and night. The best day in tant super 106 pounds, the best day in butter 5.74 pounds.

## TURNIR FLAVOR AND SALTPETRE

$\qquad$ time ago about preventing turnips tasting milk and butter. In answer, I would tasting milk putting one-half teaspoonful of saltpetre to eight gallons of milk, or one-quairter teaspoonful to six allons of cream, the flavor of turnips is destroyHalton Co., Ont. SUBSCRIBER saltpetre merely deadions the turnip flavor, which saltpetre merely deadens the turnip flavor, which sidered advisable to put saltpetre. It is not conacts, as it is very questionable whether saltrod

## better value than he thought

## When I commenced to take " The Farmer It

 Advocate," I expected it was published only twice a month, and thought it cheap at that. member when father used to take it, about 25 years ago, when, I think, it was a monthly. It, 25wouldn't be without it if it our. I have a farm if it cost three dollars a a half from town, and keep a daires one mile and milk in town for six cents a quart for the winter
and five cents in summer cows now though summer. We are testing ou We have 17 milking now. never done so before
ISAAC WhITE.

GARDEN 哈 ORCHARD. MEETIMGS TO ORGANIZE CO-OPERATIVE FRUIT - SHIPPING ASSOCIATIONS. G. A. Putnam, Superintendent of Farmers' In-
stitutes for Ontario, advises us that a series of stitutes for Ontario, advises us that a series of advice and instruction in the matter of co-operation, and also directions as to spraying, pruning, cultivation, and general, orchard management. The Department of Agriculture is prepared to
give any assistance in its power to further the give any assistance in its power to further the Department will also be prepared to send a speak-
er to give instruction in pruning and grafting made the month of April, provided application is those meetings to be held after this paper is published. It is quite likely that others will also he arranged for
special meetings should either co-operative or A. Putnam, Superintendent of Farmers' Institutes, Department of Agriculture, Toronto, Ont. E. Sherrington, Walkerton, and Mr. R. M. Baker B. S. A., Ottawa; all meetings to begin at 22p. m..: Pickering, March 21; Brooklin, March 22; Oshawa, March 23 ; Newcastle, March 25 ;

27; Brighton (Town Hall), March 28 ; Belleville W. List of fruit meetings W. D. A. Ross, Chatham, and Mr. P. Toronto all meetings to be held at Forest, March 21; Thedford, March 22 ; Ark. m . Wyoming, March 28. Caldwells Hall), March .27 Dist of fruit meetings to be attended by M Do Johnson, Forest, and Mr. A. Gifford, Mea iord; meetings to begin at 2 p.m. : Harristo
(Town Hall), March 21 ; Georgetown, March Milton (Town Hall), March 23 ; Mount Narch 25 ; Burlington, March 26 ; Cainsvill March 27; Hatchley Station (Church Basement

## Fruits Recommended for Planting in Ontario.

In the Province of Ontario are eleven fruit- or cooking; Martha, an early crab, of fair qual
experiment stations for the testing of vari- ity ; Transcendent, yellowish crab experiment stations for the testing of vari- ity; Transcendent, yellowish crab, season early
eties of fruit. Each station is in charge autumn; Hyslop, dark, rich-red erab, ef eties of iruit. Each station is in charge
of. a thoroughly practical man who
votes his experimental study to some deor two fruits. The work of these stations is in charge of a Board of Control, including Prof.
Hutt, of the Ontario Agricultural College, and W. T. Macoun, Horticulturist, of the Central Experi mental Farm, Ottawa. The Secretary is Linus Woolverton, M. A., of Grimsby, Last spring the
Board of Control published a bulletin entitled Board of Control published a bulletin entitled
"Fruits Recommended for Planting in Ontario, which we quote as follows :

EXPLANATORY REMARKS
General Lists.-After testing a large number of varieties of fruit at the various fruit stations, the Board of Control has decided upon the followDistrict Lists.-The district lists given by the various experimenters, show varieties especially adapted to the sections represented by their The term " commercial "' is intended to include the varieties most desirable for market purposes,
and the term "domestic" those most and the term "domestic "' those most desirable
for home uses, either cooking or dessert.
These lists are given, as far as possible, in the order of ripening.
It is realized that there are many varieties not
included in these lists which may special conditions, yet which are generally not considered as desirable as those mentioned

## General list of Apples

General list of the most valuable market
varieties: Summer.-Astrachan, all sections, except treme north; Duchess, all sections.
Fall.-Gravenstein, all sections except the St Lawrence River and other northerly portions of
the Province; Wealthy, particularly for norther sections; Alexander, especially for northern dis tricts; McIntosh, adapted especially to the St. Lawrence River district, but can be grown over a much wider area; Fameuse, adapted especially
to the St. Lawrence River district, but succaeds well over a much wider area ; Blenheim, adapted to all sections except the St. Lawrence River district and other northerly portions oi the Province. Winter.-King, adapted only to the best apple hardy stocks ; Hubbardston and Greening, bes apple sections; Baldwin, succeeds best on clay land, adapted to the best apple districts; North-
ern Spy, adapted to the best apple districts, but ern Spy, adapted to the best apple districts, but grafting on hardy stocks. This is also a good method of bringing it into early bearing. On-
tario, an early and abundant bearer, but shorttrees. Adapted to same districts as long-lived Spy, which it somewhat resembles. Stark,
adapted to best apple districts. adapted to best apple districts.
Varieties especially adapted to home use : bummer.-Transparent, all sections; Primate,
best apple sections; Sweet Bough, best apple
sections; Duchess, all sections. sections; Chuchess, all.-Cenango and Gravenstein, best apple
sections; Wealthy, McIntosh and Fameuse, espe-

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best apple sections.
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winter--King, best apple sections, should he
top-grafted; Wagener, best apple sections; Sway
ie, all sections except most northerly; Giveening
best apple districts; Tolman, best apple districts
Northern Spy and Mann, adapted to lest apple
districts, but will succeed inithen
distrifted.
Hegres:
Summer.-Yellow Transpa
Fall and Winter-Duchess
ongfield, Patten, Whitney,
CRABS SUITABLE FOT THF
Whitney, a large crab, of high quali
apples will not succeed, may be used
$\qquad$ district lists recommenied by the Niagara District, by Linus Woolverton.-Com-
mercial: Astrachan, Duchess, Gravenstein, Alex ander, Blenheim, Cranberry, Hubbardston, King,
Greening, Baldwin, Spy. vest, Sweet Bough, Duchess, Chenango Early Har stein, Shiawassee, Fall Pippin, Fameuse, Swayzie,
Wagener, Yellow Bellfower, Esopus (Spitzenburg) Wagener
$\qquad$ Commercial : Duchess, Gravenstein, Trenton Greening, Baldwin, Ontario, Seek, Spy, Tolman Ben Davis, Stark, Domestic: Benoni, Primate, Gravenstein, Fameuse, McIntosh, .Grimes, Green-
ing (R. I.), Ontario, Spy, Tolman Swayza Burlington District, by A. W. Peart, Burling ton, Ont.-Commercial: Astrachan, Duchess, Wealthy, Ribston, Blenheim, King, Greening, Bald-
win, Spy. Domestic: Astrachan, Siveet Bough Gravenstein, Womestic: Astrachan, Sweet Bough, Lake Simcoe District, by G..C. Caston--Commercial: Duchess, Peerless, Alexander, Wolf, Blenheim, Pewaukee, Stark, and the following, if top-
worked on hardy stocks : Greening King worked on hardy stocks : Greening, King, Ontario,
Baldwin, Spy. Domestic : Astrachan St. Lawrence, Fameuse, McIntosh, King, Spy. Lake Huron District, by A. E. Sherrington.Commercial: Astrachan, Duchess, Wealthy, Fa-
meuse, McIntosh, Blenheim, Greening Bay meuse, McIntosh, Blenheim, Greening, Baldwin,
Spy, Golden Russet, Ben Davis. Domestic: Spy, Golden
Transparent, $\begin{gathered}\text { Russet, Ben } \\ \text { Astrachan, }\end{gathered} \begin{gathered}\text { Davis. } \\ \text { Duchess, }\end{gathered} \begin{gathered}\text { Domestic: } \\ \text { McIntosh, }\end{gathered}$ Grimes, Blenheim, King, Spy, Gochess, McIntosh Russet. mercial: Duchess, Alexander, Wolf, Scarlet - Compin, Fameuse, McIntosh, Baxter, Scarlet Pip-
Goldwaukee, Golden Russet, McIntosh,
ville Beauty, Bamestic: ville Beauty, Scarlet Pippin, Fameuse, McIntosh,
Blue Pearmain, Golden Russet, Yellow Bellfower Algoma District, by Charles Younr Bellflower. cial and Domestic : Astrachan, Transparent,
Duchess, Charlamof, Gideon, Longfield Wealthy Duchess, Charlamoff, Gideon, Longfield, Wealthy,
Scott Winter.
Blackberries.
General List.-Agawam, Snyder, Eldorado, and
for southern sections, Kittatinny.
District Listc - Burling

$\qquad$ poleon, Tartarian, Dyehouse, Montmorency, Iate
Duke, EIkhorn, Windsor, Finglish Morello: Iomes-
$\qquad$


$\qquad$
Montmorency, Orel 24, Finglish Marty Richmond,Mon, Lee, Naples, Saunders Red Rictoria, Cham
District Iists--Burlington District, by A. W
Mors Red: Cherry, Fay, North Saples, Saun-
General List.-Pearl, Downing, Red
Whitesmith is one oi the best English .....
but is almost valueless on on tome soils variet
General List Grapes.
Black: Moore, Campbell, Worden, Concord, WilderRed: Delaware, Lindley, Agawam, VergennesWhite: Niagara, Diamond. For northern secions,-Black: Champion, Moore, Campbell, WorLen, Wilder, Red : Moyer, Brighton, Delaware
District Lists.-Wentworth District, by MCampbell, Worden, Commercial-Black: Champion, MooreCimpbell, Worden, Concord; Red: DelawareViagara, Agawam, Vergennes, Catawba; WhiteDelaware, Early Dawn; Red: Jefferson MiacWhite: Winchell, Golden Drop. Niagara Districty Linus Woolverton. Domestic: Moyer, Campell, Worden, Delaware, Lindley, Brighton, Wilder,General List Peaches
heshed, clingstone, quality ondy Siseed, white11: Alexander, white-fleshed, clingstone : Hyneswhite-fleshed, semicling, quality good ; St. John,Rollow-fleshed, freestone, quality good': MountainEarly Crawford, yellow-fleshed, freestone, qualityvery good; Champion, white-fleshed, freestone,quality very good, for home use or near markets;Fitzdon, yellow-fleshed, freestone, quality good;good; Reeves, yellow-fleshed, freestone, qualityair, large size; Elberta, yellow-fleshed, freeStone, quality fair, good for long-distance ship-
ments ; Oldmixon, white-fleshed freegood ; Stevens, white-leched, freestone, qualitygood; Stevens, white-fleshed, frestone, qualityair, very late, good shipper, freestone, quality
Dt. Jomestic: Hynest. John, Early Crawford, Oldmixon, Longhurst,
itevens.District Lists-Niagara District, by Linusareenstoro, st. Johmercial: Sarly Sneed, Alexander,Greensboro, St. John, Early Crawford, New Pro-
lific, Champion, Elberta, Willet, Smock; Domes-Lic: Rivers, Hynes, St. John, Emock ; Domesquesis, Crosby, Champion, Reeves, Wonderful, Jac-
queripe, Wheatiand, Longhurst. Fissex Dis-trict, by W, W. Hilborn. Commercial: Alexander, St. John, Brigdon, Early Crawford, Fitz-gerald, New Prolitic, Engol, Elberta, Golden Drop
Kalamazoo, Banner, Smock Domestic (WhiteFlesh): Alexander, Mountain Rose, Oldmixon,stevens: (Yellow Flesh): St. John, Early Crawford, Fitzgerald, New Prolific, Engol, Crosby,
Golden Drop, Banner.General List.-Commercial: Giffard, Clapp
Bartlett, Boussock, Flemishspot), Howell, Louise, Duchess, Bosc, ClairgeauAnjou, Kieffer.
Giiffard, Dartlett, Domestic:(Giffard, Bartlett, Flemish (for the north), Shel-
don, Seckel, Bosc, Anjou, Lawrence JomerWinter Nelis. Bosc, Anjou, Lawrence, Josephine.District Lists.-Niarara District, by LinusGiffard, Clapp, Bartlett Cial Chambers, Wilderouise, Duchess, Pitmaston, Clairgeau, Anjou:iffard, Boussock, Romestic: Doyenne, ManningAnjou, Lawrence. Burlington District, by A. W WPeart. Commercial: Wilder, Clapp, Bartlett,Bartlett, Nolis, Waster Reurre A Domestic: Wilder,2uinte District, by W. H. . Dempsey. Commercialand Iomestic Giflard, Tyson, Clapp, Boussock,
Hardy, White Iloyenne, Dempsey, Boss, ClairgeauGoodale, Lawrence, Josephine, Bosc, Clairgeau,
Lt. Lawrence
District, by Harold Jones. Domestic: Clapp.

- Plums
sirable where the European and Japanese varieties species, or else that the soit already contains an
cannot be grown: Aitkin, Cheney, Bixlly, Man- abundant supply of nitrogen to moner kato, Wolf, Hawkeye, Stoddard; European Bradshaw, Imperial Gage, Gueii, Shipper's Pride
Lombard (liable to overbear requirec Lombard (liable to overbear, requires thinning)
Quackenboss, Yellow Egg, Grand Duke, Golde Quackenboss, Yeiliow Egg, Grand Duke, Golden
Drop (Coe), crop ing); 'Japanese: These are apparently quite
cas hardy as the European varieties: Red June as hardy as the European varieties: Red June,
Abundance, Burbank, Chabot, Satsuma (red feshed, desirable for canning).
District Lists. - Lake Huron Sherrington. Commercial and Jomestic : Re June, Ogon, Burbank, Bradshaw, Imperial Gage
Gueii, Shipper's Fride, Victoria, Quackenboss Yellow Egg, Monarch, (irand Muke, Satsuma Georgian Bay District, by John Mit hell. Com
mercial and Domestic: Red June, Burbank, Wash mercial and Domestic: Red June, Burbank, Wash
ington, Bradshaw, Imperial Gage, Quackenboss
 lington District, by A. W. Peart. Commercial-
European: Bradshaw, Niagara, Imperial Gage Lombard, Yellow Fgg, Glass, Reire Claude Sapan, Domestic: Abundance, Saunders
Standshaw, Imperial Gage, Smith, Orleans, Lom bard, Yeliow Egg, Satsuma, Reine Claude cial: Red June, Burlank, Bradshaw Commer Gueii, Golden Drop (Coe), Quackenboss, Satsuma Reine Claude: Domestic: Abundanoe, Washing
ton, Yellow Fgg, Shropshire, Quackenboss Sat ton, Yellow Egg, Shropshire, Quackenbss, Sat
suma, Reine Claude. St. La wrence District, by
Harold Jones. Domestic-European. Gueii bard, Shipper's Pride, Glass ; Japan: Red June Burbank ; American: Milton, Hhitaker, Hammer Quinces.
General List--Fuiler, Orange (the leading mar ket variety in ontarior), Champion (for Soung mar-
Ontario only, as it ripens too late for other sections)

Raspberrie
General List.-Black: Hilhorn, Older, Gregg,
Smith Giant ; Purple : Columbian, Shafier Red Smith Giant: Purple: Columbian, Shatfer: Red Red
Larlboro, Herbert, Cuthbert: White: Golden Pueen.
District Lists.-Lake Huron District, by A. F Sherrington. Commercial and IDomestic-Black,
Hilborn, Conrath, OOder ; Purple: Columbian, Shaffer; ; Red: Marlboro, Herbert, Cuthbert

General List.-Commercial : Splendid (Perfect) ored light sandy soil. Greenville (Imp.). Williams (P.), Saunders (P.), Sample (Imp.), Irene (Imp.),
Buster (Imp.).
Domestic:
Van
Diemen (P.) Plendid (P.), Excelsior (P.), Senator Dunlap Belt (P.), Lovett (P.).
(Note.-In selecting varieties for planting, per ect-flowered varieties should be included, to ferti-
ize those having imperfect fowers

THE FARM BULLETIN
co-operative experiments with nitro CULTURE.

## In reply to an inquirer, we have just written a sonewhat lengthy artice explaing the system of itrocoulture for treating the sead of alfalfa and other nitro-culture for treating the seed of alfalfa and other leguninous crops, ot be somu ool land where this crop has never previously hrown, and where, therefore, there lerian necessary for the vigorous growth of such crop Since the above-mentioned articlo wns prepared and pu  

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$\qquad$
thundant supply of nitrogen to suppory contains and growth
In either case, the use of artificial cultures would be of little benefit. On the other hand, if the crop fails o do well, and on examination no nodules are found
on the roots, the culture would probably be of benefit Failure toots, the culture would probably be of benefit
an be due to other cnuses than lack of nitrogen. The soil sue to ther cases than lack available potash,
phosphorice acid, or lime. Inacalk phosphoric. acia, or or lime. Inoculation Hooe not and
cannot remedy this.
When It is intended to sow sead canot remedy this. When it is intended to sow seed
of a leeume which never has been grown upon the soil,
inoculation wh the neen of a lecume which never has been grown upon the soil
inoculation of the seed should prove beneficial. This
is true, even if other legumes is true, even if other legumes have heen grown upon
the soil, as the bacteria-torming ront nodules on one species do not neessarily form nodules on the roots
other species. If soil once hecomes therughly oculated as indicated by a successful legumingus cro and the presence of numerous notules, the use of
artificial inoculation with later seedings is considered artificial inoculation with later seedings is considere Iowed. The use of cultures will in no way compensat for carelessness in selection of seed, preparation of the soll, or subsequent care of the crop.
APPLICATION FOR NODUI.E-Forming bacteria I desire to conduct an experiment with nodule orming bacteria for: Red Clover, Alfalfa or Lucerne
Alsike Clover, Vetches. Peas Soy Alane Sweet Peas, Winter Flat Peas. ${ }^{\text {(Stans. }}$ (Strike out those no wanted.).
Pounds
(Each bottle is suffcient for 60 pounds of seed.)
probabble date
Probable date of seding.
If the culture is sent to me, I will : (1) Carry on
he experiment according to the
he experiment according to the instructions received
(2) exercise care and accuracy in the work; (3) report
the results of the experiment soon after harvest, whether uccessful or not.

Post office
Enclosed find
Express Office

Aboratory, Agrication should be mailed to Bacteriological In order that cultures may be prepared and and sent
promptly at the cer important
as possible.

CRERAR'S SHORTHORN SALE.
The auction sale on March 13th, of the Beech Ridge Kerd of Shorthorns, belonging to Mr .J. Sas. .. Crerar.
Shakespeare, Ont., attracted a The catte were in very high condition; some of the older ones so fat that bidders appeared to be doubtul
whether they would breed, which, perhaps, militated Whether they would breed, which, perhaps, militated
against the success of the sule. which could consint the success or the sale, which could hardly be
cons satisfactory for the class of stock offered. However, buyers made good bargains, and some fair
rices were realized.
The stock inull, Trout Creel prices were realized. The stock bull, Trout Creekk
Choice, was withdrawn at $\$ 210$, which was considered quite below his value.
selling for $\$ 100$ and
Cem of Rallechin 3rdit 3 yrs. Markdale
Ballechin Daisy
2nd,
.................................. 8305 Ballechin paisy, 10 yrs, D. D. Forbes, Stratiord............170 110 Daisy A.. 6 yrs.; Thos. Mercer
Gem of Ballechin (imp.), 9 yrs.; W. J. Shean, Owen
 Scottish Lass, 3 yrs.: Peter Colaunoun, Clifiond. Rosabel 6th, 2 yrs.; D. Hill, Staffa
Minerva, 2 yrs.; T. Mercer -..........
Rallechin Daisy 3rd, 2 yrs. D. Hill -..... ....... 180



the new meat inspectors
$\qquad$ anadian Parliament. To qualify for these positions, five weeks' special course at the Chicago Veterinary
'ollege is prescribed, and at the first call about 160 veterinaries made application. Upon a more complete
statement of the conditions of service heing sent out. statement of the conditions of service being sent out,
some withdrew and others failed to respond. Finally. 64 were autherized to take the course. Those who successfully pass the examination and declare their wil-
lingness to enter the service will reccive a 8100 which will in part compensate tor the outlay in going
to Chicamo where the tuition tee halone is 845 . ${ }^{\text {The }}$ The to Chicago. where the tuition tee alone is 845 . The
salaries in the inspection service for full time of the inspectors will be from $\$ 1,000$ to $\$ 1,200$ per year. with
necessary travelling expenses when on duty necessary traveling expenses when on duty. It will
probany pe late in then resent year when the act goos
into effect
dairy instructioll aid salitary inspec. TION II OMTARIO FOR 1907
The Provincial Department of Agricultare has, in conjunction with the Dairymen's Associations of the Province, carried on a vigorous educational campaign during the past decade, for the purpose of bettering the unality of the cheese and butter produced in Ontario. It is admitted on all sides that much good has re sulted to the sindustry through this campaign. This more workable and permanent. basis the provincial De partment of Agriculture has directed the instructors to visit every factory and creamery in the Province, and also to devote considerable of their time to advising he producers as to necessary improvements in methiods in orrcer to furnish the desired quality of raw mate-
rial or prod all this without charge to proprietors, makere The proprietors and secretaries of factories being established this year, or which did not take instruction
last jear, are asked to notify the Department as to the name and location of said factory or creamery, and to indicate the date upon which they will likely begin operations. The instructors will be prepared to give
instruction to all makers, and no charge will be made
 day at a factory, unless there is something radically wrong, and it is found necessary to remain at the fac-
tory for a whole day or more to clear the diffeculty

All instructors will be clothed with the authority of sanitary inspectors, and thus have a right to visit any ractory, creamery, or private dairy; also the premises of any producer, to inspect the same from a sanitary
standpoint. If conditions are found unsenit spector will give instructions as to how best thee conditions can be overcome. A reasmable time will, in all cases, be allowed for placing the premises in a satisfactory condition. If the procucer, or proprietor,
foos not comply with the request of the instructor, then an appeal will be made to the Director of the Dairymen's Association living nearest the factory; stramery, or place of producer concerned, the Chief InAgriculture, whom will finally decide as the the rovements required and mide within a reasonable time. It will not, of course, or the great bund of extreme measuros in many cases, the indry awake and permanent basis. Te has been decided not to have the instructors dewith by those th testing milk, which should be dealt hand. It is far more essential that the time ory the nstructor be occupied in endeavoring to improve the quality of the raw material. If the authorities of a having been tampered with then the indtruce or milk district will be allowed to assist in making a further
The Department wishes it clearly understood that that of instruction; but in the few instances where the conditions, so far as sanitation is concerned, are detmimental to the production of a high-class article of cheese, and the persons concerned refuse to make the in putting th

WHAT THE SPLIT-LOG DRAG HAS DONE The condition of the highways are an indication of
the progress of the country according Fulkerson, member of the Illinois Highw Commisein in an address before the State Farmers' Institute a in the United Stads the United States are far better then eastern part of western part. There are three reasons for this : First they have had more time to improve their roads; sec ond, they have had more money; and, thind, they are
continually working their roads ; insteat off until fall, when they have nothing ead of putting Iam a strong advocate of the road drag, becaus
with a drag an intelligent man can do a great deal yond. and an ignorant man can do no harm. This more than we can say of the road grader.
bugry through the murd three monthe in the drag and spend the next three months in bumping over the krobss then, with a grader to throw all the weeds
grass, etc, into the middle the have to spend the next six monthe of the year ridin an a side hill. rue road pate ris nont
best road wo mo that has been kept up by dragsing; there has not heed a grader on it in three years. The best road in Christian County has been manintained by a drag, and
that road has not had a grader on it for Aifteen . The best time to dragg a road is when it is is very
wet; when thie water and slush will get in front of the drag. In this way you get a slick cotin front of the
drag, and when that dries out have the drag, and whon that dries out have a hard crust, and
that will let the water drain

A Money Magnet

One advantage to yon of a
Savings Acoount at The Bank of
Toronto is that it draws to ittelf Toronto is that it draws to ite itelif
many ode sums of money that ana
oesil) be spared, and your ballance
will therefore be agrowiog one.

Another advantage is that these sums become money-producers
for you through the interest
as rned.

And your money in this Bank will be saffe.

## BANK OF TORONTO incorporated 1855 37,000,000 <br> MARKETS

## TORONTO

LIVE STOCK.
Receipts of live stock at the City and
Junction markets last week were light. Trade was brisk, with prices firm. Junc
tion receipts of cattle on Monday, $1,7 \mathrm{Co}$ Exporters easy for lack of shipping space.
Exporters. - Prices ranged from $\$ 4.90$ to Exporters.-Prices ranged from $\$ 4.90$ to
$\$ 5.40$, the bulk selling at $\$ 5.00$ to $\$ 5.15 ;$ export thells sold at $\$ 3.75$ to $\$ 4.50$. One
exoeptionally fine load sold at $\$ 5.50$ per Butchers'.-Prime butchers' cattle very scarce, not enough to supply the demand.
Prime Easter lots, $\$ 5.25$ to $\$ 5.40$; several loads of light exporters, 1,200 to 1,250 lbs., each sold at $\$ 5$ to $\$ 5.25$ per cwt.;
loads of good, $\$ 4.40$ to $\$ 4.70 ;$ medium bads of good, $\$ 4.40$ to $\$ 4.70$; medium
butchers' and good cows, $\$ 4$ to $\$ 4.30$ common. $\$ 3$ to $\$ 3.70 ;$ canners, $\$ 1.50$ to
$\$ 2.75$ per cwt. Milch Cows.-Trade was moderately good, but the larger number offered were
of medium quality. Prices ranged froun
$\$ 35$ to $\$ 55$ ench $\$ 35$ to $\$ 55$ each.
Veal Calves. - Receipts of calves have class, better known as "bobs," the dairy class,
count of which, prices were easier for the bulk. l'rime new-mink-fod calves are
scarce, and would bring as high prices as ever, being worth from $\$ 7$ to $\$ i .50$ pe.
cwt. ; conmmon to medium, $\$ 3$ to $\$ 6.50$ per cwt.
Sheep and Lambs.-Offerings have been light. Prices firm. Export ewes, $\$ 4.75$ to
$\$ 5.25$ per cut.; rams at $\$ 3.75$ to $\$ 4.50$ : lambs of prime quality sold at $\$ 7$ to per cwt. A wew few sum, per cwt. A very few spring lambs are be-
ing offered.
Prices for them range from $\$ 8$ to $\$ 10$ each.
light, but prices were, if hanysthing, easier fats, $\$ 6.65$ per cwt .; sows, $\$ 4 \mathrm{to} \$ 5 \mathrm{~s}$, jer Horses. - The supply of hores cwt. was equal to the demand, which was good. For good, heay-Itraft, general-
purnose and drivers. as will
class firstclass delivery horses, there is an excellent
demand. Roadsters showing speed and good staying properties are hard to get, stil! going higher. The lwst horses i
nearly every class are selling well., but nearly every class are selling well, bu
the plain and needium olferings are weat
and if anything. lower than they hav been, on account of the large ni
offered. Hurns \& Shel ward, who a in charge
prices as follows
to 16 hands, 812
and carriuge horses, ${ }^{1}$
$\$ 150$ to $\$ 175$; matches
$\$ 450$;
pounds,
$\$ 120$ to
$\$ 120$
to
$\$ 160$

1,350 to 1,750 pounds, $\$ 175$ dr
second-hand workers
$\qquad$
(irain - Wheat-No. 2 white, $72 \downarrow$


THE FARMER'S ADVOCATR


0 Lite, 急iterature
antid (funcationt.
 OUR LITERARY SOCIETY. Study VI. Was Literary Study VI, too
hard
Noot harder, we think, than
Peole Peole Castle. Were our students
tired of Wordsworth? Yet, better tired of wordsworth? yet, better
(is it not ?) to really get a grasp on one poet before proceeding to an-
other. Was Tintern Abbey too long, as one correspondent its study? To this hast charge we plead guilty, and
to this reason do we attribute the to this reason do we attribute the
fact that not nearly so many wrote on Tintern Abbey as on the preceding
studies
However we dare to hope stuates. However, we dare the mope jority not a few have been doing as
has Mr. MacCallum, who kindly wrote us: "Although I am not sending
the wye, ${ }^{\prime}$ I am am studying it just as hard as if I were."
The quality of the answers sent is, we are glad to say, quite up to the
highest mark ever olttained by the highest mark ever obtained be the
 Ont., are this time the winners. paper, and E. McCullough, werite dis-
playing, we imagined, traces of playing, we imagined, traces of
juvenility in almost every answer, occasionally hit a point with a rather
remarkable intuitiont optional subject, Secretary Root's
address, Mr. Way is the successful One.
Now, before setting down the an-
swers. to the questions on Tintern swers
Abey, we ask every reader of this
Department to provide himself or Department to provide himser
herself with our issue of Feb. 7 th,
and to refer constantly from question and poeme and from poem to answeryes, even from answer back to poem
again. There isn't the slightest use again. There isn't the slightest use
of merely reefding over the answers
with well put the Department in the stove and be done with it. But by giving just this amount of the beauties of the some O to absolute Peter Bells-are bound feel apain that he knows quite noth-
ing of ing of Wordsworth. Tintern Abbey
is continually finding new admirers
only the the foremost literary men of this Province enthusiastically proclaim it ten," but not, perhaps, until this idealizing of something higher than mere dollars and cents will the full
import of its message be fully underlines written above tinQuestion 1. "'The Wye River rises
in the Cambrian Mountains in Walos.
and throum Hereford County (my father's
thitrth) Here) Fngland into the Sevy
ert
2. '" ' With a sweet inland mur-
mur - much more musical and more ocean's roar.' $\begin{gathered}\text { fancy than the } \\ \text { One might call the }\end{gathered}$ ocean's roar.' One might call the Byronic."-Mr. Powles. Elic requiet of the scene, and 'inland, to by all of our correspondents is that the river is not affected by tides
above Tintern, hence the murmur above Tintern, "hence the murmur
would be truly "inland." 3. Lines 5-8: " Stretching in
front is an already secluded scene but with the steep, lofty cliffs in the buckground, reaching up till they meet the quiet sky abqve, walls and impression of being shut in entirely from the outside world is felt, and a deeper sense of seclusion produced.'
4. (a) "The orchards and woods being all of one green hue, it is im-
possible to say where the orchard ends and the woods begin. The two seem continuous. -Gretchen. (b) pretty idea of the hedgerows being like playful children escaped from the sportive children, the younger like of the wood has escaped fram the mother-wood, and, getting beyond its reach, was now growing up without care or restraint. I take it that the
hedgerows had been much neglected and allowed to grow wild again, un til they seemed, only a part of the natural woods." Several of our students here 5. Several of our students here
took the idea that there were actually gypsies or a hermit among the
trees. We feel inclined, however, to trees. We feel inclined, however, to
favor Mr. Powles' interpretation that ovor Mr. Powles' interpretation that says: "Spectators would see a
smoke curling up through the trees from some farmhouse, and from its appearance would think it like the fire of some gipsy camp, or of some-
one who lived alone among the hill caves." " During the five years that had
6. passed since Wordsworth had visited cheered by the memories of what he had seen and heard; ' fond memory would bring the light round him of these bygone days. Again in spirit
would he visit the lovely scenes, and this would quiet his mind, and in his weary hours these sweet sensations would come in upon him and be a blessing. They had, in fact, the effect of turning his thoughts into
purer, cleaner, brighter channels, and purer, cleaner, a better man-one of nature's noblemen, an example for
future generations. What a grand future generations. What a grand
teaching this is for parents to implant in the minds of their childrena love for nature, for the woods, the sunshine, and the flowers, so that
when sorrow comes the gloom may when sorrow comes the gloom thay
not fill the whole horizon, but be tempered by the memory of happy
hours.'-J. B. Powles. hours."-J. B. Powles.
7 . Lines $45-51$. "The thoughts become so elevated that we become ob-
livious to all external things, and the mind wanders into another world-a soul world, as it were-where all is
so harmonious that the inward ey
is able to see and understand th real working of things."-Elic. "This
is a description of a poet's inspired moon, a time of supreme exaltation
shackles for the time soul stands forth unhampered by Infintal barriers, faco to face with the whisper, and to read life's mysteries.' -S. E. Leeson.
8. Possibly a combination of the following will bring out the full idea: "The poet has known the
dreariness of city life, when the days were only 'daylight,' with nothing o nature to cheer and inspire." "- $\mathbf{S}$. $\mathbf{E}$. Leeson. To Wordsworth this was presses the same thought. "/ No man is always wise, nor can any man be always kept free from the ' joyless daylight,' the days when one's bright-
est hopes are dashed to the ground est hopes are dashed to the ground
and we seem to think the powers that be ure working for our down-
fall. Wordsworth recognized that fall. Wordsworth recognized that,
as in nature it was not all sunshine as in nature it was not all sunshine, "The daylight had joyless shapes, not in the shapes of nature, but be cause of the disturbing influences o
man. In another poem he expresses I think, a similar thought, "A And much it grieved my heart to thinkWhat man has made of man.'
9. Lines 61-64: " Thoughts that had been born at sight of these scenes had aimost died out because sights of them. Now that he again
visits the spot, they revive again at first indistinct and in confusion, but gradually rearranging themselves
as one thing after another meets his as one thing after another meets his eye, until at last they stand clea
and distinct in his mind."-Elic Wordsworth is not the same man tha he was five years before, and some what painfully recognized the fact. E She says: "In five yeurs he re turned. Everything appeared very much the same, but he was alto older, and could see into the depths of nature more." 10 his eyes upo 10. He is feasting his eyes upon
the beauty of this scene, and will carry it away in his memory, so carry it away in his memory, so have food for thought in years to
come he will appeal to his memory come he will appeal thinis memory, ing is the same as in "To a Highlike these it is we prize.....Our mem ry, feel that she has eyes.' "-Elic Just as in the past, recollection quisite surroundings have brightened lonely years, so he hopes the future will be blessed by thoughts of this and spiritual refreshing in such re membrances."-S. E. Leeson. "This picture, upon which he now feasts, will be food for reflection when he
can no longer see it, and it will can no longer see it, and it will; as
heretofore, help him to live cheerful-ly."-Gretchen.
11. "We often hear it said, 'You
cannot put an old head on young cannot put an old head on young
shoulders,' and it is well. Youth is shoulders,' and it is well. Youth is
the time for brightness, vivacity beauty; age brings wisdom, re sponsibility, fruit. The poet, as he describes himself, was, when young, Where nature led he followed, and he loved the more violent forms of na
ture-the mighty sound of the cat aract. the mountain, the deep and
was to him the great moving hat guided his affections, and so sufficed him that he had no need to chaster beauties in nature. This description is very natural. Youth is not naturally studious or thought-
ful."-J. B. I'owles. This answer is right as far as it goes. One might perhaps, judge from. Wordsworth's
reference, further down, to reference, further down, to the
"meadows," that as he grew older meadows," that as he grew oresed themselves on him more and more yet, it is a question whether nature
in every form did not always appeal in every form did not always appea
to Wordsworth. Another point should, hordsworth $\qquad$ no sympathy with humanity. A Gretchen says: "When a youth, the and desired no intercourse with man He was content to live isoläted. Hand in hand with her (nature) he
walks, . . Face to face, with her he talks.' $:$ Just in passing her he not think, Mr. Powles, that Wordsworth, in boyhood,
12. "Since those days, ue aken on deeper meanings, life ham turned from the wondroued. He has the Creator, and found God in of ure, a moral uplifting God in napiritual joy."-S. E. Leeson.
18. Several correspondents her quote from " To a Highland Girl. tc. Aless thee with a human heart, espectally noted the following may be specially noted the following

What though the radiance which wa once so bright
Be now forever taken from my sight Be now forever taken from my right,
Though nothing can bring back the of hour $\begin{aligned} & \text { hondor in the grass, of glory in }\end{aligned}$ We will grieve not, rather and We will grieve not, rather And
Strength in what remains behind In the primal sympathy
Which having been must ever be,
In the soothing thoughts that spring
In the soothing thoughts that spring In the faith that looks through death,
In $\begin{aligned} & \text { years } \\ & \text { mind." }\end{aligned}$ that bring the philoeophic mind.'
14. To this question several anjudge that those who chose lines 91 -105, and again, 110-114, and 126 teach mankind to be content with humble life and simple joys. He says his ' cheerful faith, is 'that all. Which we behold is full of blessings.'
He believed that a universal appreciation of nature's majestic beauties would lead to deeper reverence and understanding of the Divine power behind it, and higher ideals of life as
a consequence."-S. E. Leeson. Wordsworth felt the presence of
Gor in all nature, and through na-
ture felt God working in him for good, teaching, praising, admonishing, soothing and sympathizing with him, leading him higher and higher, until he was enabled to 'see into
the life of things' as only few can He calls himself a 'Worshipper o Nature,' but is rather a worshipper 15. "In viewing nature, there" besides the beauty apparent to the
(t)
tion-what the appreciative heart " half creates." "- S . E. Leeson. Near 16. Nearly all have answe rectly. S. E. Leeson's is the mor comprehensive : "Theson's is the most cate the deep friendship and sympathy existing between the poet and his
sister. In her he sees the reflection sister. In her he sees the reflection
of his own impulsive youth. The sight of her is like
delightful memory.
delightful memory", "Type of the wise, who soar but never roam, ... True to the kindred points of heaven and home." Quoted by several. See, also, "

- I am no
light One who much or oft de$\begin{array}{ll}\text { To season } & \text { my fireside with personal } \\ \text { tall, },-\end{array}$ or welk, neighbors, daily, weekly, in my sight:
$\begin{gathered}\text { And, my } \\ \text { fordies bright, }\end{gathered}$ chance-acquaintance, Sons, mothers, maidens withering on the stalk,
These all we
wear out of me, like forms wainted on rich men's floors for one The Quiet Hour.


## AN OLD LEGEND.

${ }^{10}$
Had finished His life
Had finished His life of love Was the voice of His Heaveny Father
Walling to Him from above And the cruel soldiers of Pilate
Were searching with eager eye
Were searching with eager eye
For something to scourge the
For something to scourge the Saviour
Ere they led Him forth to
Now, it chanced that there grew a willow Wot a willow like those we see,
With sorrowful, trailing branches,
But a tall, young, graceful tre
Whose straight, green branches pointed
To the sky, and sages tell
How the soldiers took them to scourg
Him,
For they served the purpose well.
nd all through that dreadful hour
When the blows fell thick and fast
On the quivering flesh of Jesus,
Till the blood flowed down at
The willow drooped and saddened
Under the grief and pain,
And trailed its long, green branches,
Weeping down on the
Weeping down on the moistened plain And
That since have come and fled,
The sorrowing, weeping willow
Has hung its saddened head

## BEHOLD YOUR KING!"

Light above light and Bliss above bliss,
Whom words cannot utter, lo! Who is
this?
As a King with many crowns He stands,
And our names are graven on His
hands ;
As a Priest, with God-uplifted eyes,
As the lamb of God for sinners slai,
That we too may live He lives again
-Christina $G$. Rossetii
Behold your King! " said Pilate, nearly 2,000 years ago, little dreaminn
that those words, intended as a mockery of his thorn-crowned, hlood - stained
Prisoner, would stand gold to brightem the darkness of ages to come. It might have been easy to
recognize the kingliness a day or two recognize the ken victory over denth had
later, when the
been won, and He who is The Life had isen triumphant from the grave. But on that first Good Friday, when Jesus
stood alone, deserted by His followers, and apparently powerless to help Himself
ard them, the kingliness was not so self or them.
And yet, the exclamation, " Behold
your King !, was very atting on that your Kinful day of conquest over weath. This is a democratic ag
nen do not bow just because he has gold bid jeve
king just because he has gold and jewn
to make him look magnificent, and a
army to obey him. Now, perhaps more
army to obey him.
than in any age before us, men stand or
their own merits. The men and women
tho win meal honor and reepect from

Better than such discourse doth silence
long,
Long
Long, barren silence, square with my desire :
To sit without emotion, hope, or aim,
In the In the loved presence of my cottage And listen to the flapping of the flame Or kettle
song.

Dreams, books, are each a world; and
books, we know, books, we know good.
Round
flesh and blood
$r$ pastime and our has

## grow

18. S. E. Leeson chooses lines 91
-108, Gretchen 45-51, J. B. Pow les 155-165, E. McCullough 96-106 Elic 126-138. We should like, wer it possible, to hear these student 19 and 20. Marks wers fell in the following order : S. E. Leeson; 2, J. B. Powles : lough. 4retchen ; 5, E. McCul for space this week, we beg permis for space this week, we beg permis-
sion, instead of publishing these very
creditable essays (if we published one all), to give the very excellent ablish stract of the piece written by Turner " After five long years, the poet once more looks upon the sylvan
Wye Wye. Nor, during that absence,
among far other scenes, has the memory of a spot so beautiful the memory of a spot so beautiful and
quiet ever left him. Nay, more, it may be that to the unconscious in fluence of those beauteous forms he owes the highest of his poetic mood
-that mood in which the soul tran -that mood in which the soul tran-
scends the world of sense, and views the world of Being and the mysteri ous harmony of the Universe. He believes this is so ; at least h
knows how often the memory of thi quiet beauty has cheered the dreariness of life and soothed its fever. ". And now he once more stands beside the real scene of his dreams, and his present sensations mingle
with his past, not without a painful feeling that the past has in a measure faded and belongs to his former self, yet feeling that the joy of the prears to mome
" For, although he is no longer his
former self, no longer feels the same
all-sufficing passion for the mere ex ternal forms and colors of nature, is no longer filled with the sume glad-
ness of mere animal life, yet natur ness of mere anemai but only nature has not forsaken, but only fulfilled
her kindly purpose towards her worshipper. Taught by her, he has reached a more serene and higher egion; higher because more human in its interest, more thoughtful in its
nature, more moral in its object ". And even if he had not reat. this higher mood, none the less by sympathy with his sister, could he Thel the full joys of his former self. Chat she should now be as he was doubtless she, too, will be led by na ture, who never leaves her task incomplete, to the higher and more
tranquil mood which is the ripe tranquil mood which is the ripe food ever sorrows might befall her in whater
times, both he and she could with times, both he and she could with scenes, and by his aid, had wrought scenes, and by his aid, had wrought in hert.

Mr. Way's essay will appear in con-
nection with the essays on nection with the essays on in con-
their fellows are generally those who are
really noble in heart and life-not those who are rich or titled.
If Christ had only been a king or a grandeur to exalt Him, how soon that blaze of royalty would have died out. But, because His kingliness was inherent,
a royalty of soul, His kingdom is still growing, and He still reigns, an absolute growing, and He still reigns, an absolute
King, with complete control over the lives and secret thoughts of millions who have never seen Him.
Let us fix our eyes on our Royal and try to carry about with us the marvellous picture of a Conqueror, which drawn so vividly by the four Evan-
gelists. The stories are four in number gelists. The stories ate four in number eyes on Him, surely we may drink something of His spirit, and prove o
King. would be impossible to imagine a more perfect example of unselfish self-forgetful-
ness than is here photographed in in ness than is here photographed in in-
delible colors. The whole of that stainless life had been spent in trying to belp others, without thought of reward ; but gratitude and unkindness in return for all the loving kindness so freely poured out. The hands, that had been alvays ready to heal with tenderest touch, are cruelly
pierced; and the heart, that had poured pierced; and the heart, that had poured
itself out in loving acts of service, is tortured with shame and scorn and dead-
ly insult. But pain of body and of heart ly insult. But pain of body and of heart
cannot crush the spirit of this kingly Man, or crush the speririt of this kingly Me is on the watch for the right moment to catch St. Peter's eye and touch his heart; He gives "wise silence or quiet telling words to priests and king an
governor. Neither words nor silence ar intended. $t_{1}$ Neave His words nor silence ar earnest effort of love to help His foes $t$
conquer deadly gin. Conter deadly sin. ho the awful hours drag on, withAnd so the awful hours drag on, with-
out one trace of sellishness in the King
Who is caring for the weeping women for Who is caring for the weeping women, for brutal soldiers, for the repentant thief,
for mother and friend. And yet
> not callous or insensible to pain. Well
$t$ is for us that the agonized cry,

I ignore pain, but to stand up under it avoided the insults, the agony and the turn our becks upon it, but to not to coming rich or successful in the world and endure it when called upon to do so. and allowed other people to lhattle with
But how high the King stands above uc sins and endure their troubles with But how high the King stands above us
in His marvellous sell-forgetfulness. How much fuss we make over trifing aches and pains, over any slighting word or un
kind act we may have met with. How we kind act we may have met with. How we
etail our trouhles in our own minds or to Nail our troubles in our own minds or to Me gives, and love sweetens the hardest
 $\begin{array}{ll}\text { n. the fower of silence. Hard words } & \text { it implies a daily renunciation of ones will for Gods will. a daily self. }\end{array}$

$24=5$

 dliness. Some. Iet us chans to follow the King. Nor a child in an the nine glens that
romantic or grand, not easy to endure
without complaining, but just common place, petty and uninteresting. The most ordinary life-ordinary in its surround-
ings-may be lived verenely ings-may be lived serenely, grandly, en-
thusiastically. One that is so lived will be, in its measure, a kingly life, awakening high and noble aspirations in other souls, as the patient endurance of Chrigt won the homage of the thief and the ad-
miration of the centurion who watched it. God has given to each of us a treasureeven a life to be poured out as Christ's
was in glad, willing was in glad, willing service and self-
sacrifice for the goord of our fellows Shall we refuse our glorious vocation b. cause it involves pain? Rather let us behold our King, keeping our eyes steadily
fixed on Him who is the Inspiration fixed on Him who is the Inspiration and
the Life of the world. daily drinkin more and more of IIis kingly spirit. God of Love, God of Work: Touch me
with fre For the dross within me, fill me with ire:Sta passion 1 cleave to my speed my work, daily, toward the
$\qquad$ me-air !
Blue and breeze-swept spaoss brighten my care :Galm, fiort leave my hand
each heart meeting mine only feel-
balm

GRACE FUR LIGHI
When we were little childer', we had a
Quare wee house,
Aay up in the heather by the head of
Brabla' burn
hares we'd see by the head of hares we'd see them scoutin', an'
we'd hear the crowin' grouse,
$\mathrm{An}^{\prime}$ 'when we'd all be in at might, ye'd not get room to turn. The youngest two she'd put to bed, their
faces to the wall An' the tave of us coula sit around,
jest anywhere we might. Jest anywhere we might;
Herself 'ud take the rush-aip an' light it An' ". Gord be thanked! ". she would Then we be to quet the laughin' an pushin' on the floor, and be forgiven ; called us to come whelf 'ud put his pipe down, an' say
the good word more. May the Lamb of Good lead us all to
the light o' Heaven!""
now has had their day.
no
now has had their day,
are kind and obliging to people who
treat us well-but anybody can be that--
forgetting that one who is trying to be kingly must pour out kindnesy and to at home, in the shop, in the market, on
the street, everywhere. courtesy and kindness to friends, strangers and enenies, conquers, as petty sell
seeking and self-asserting never do. See how soon the hardened thief on the cross King, who had nothing to prove Himself buing and the owner of a "kingdom shone forth in words and looks, in patience and calm silence. See how the
world bows down before this Man. D termined infidels and degraded criminals, men of the world and little children re The most learned arguments may make absolutely no impression on men, but kindliness of life never fail to reach and touch a!l witnesses, making them want enough in His own character to change the shameful Cross into a glorigus
Throne. has inspired the world with a new and magnificent ideal. No one no
can be satisfied to an be satisfied to be merely rich or
mous, or to have a pleasant, easy mous, or to have a pleasant, easy time
doing nothing for other people. We al want to help our fellows, and we also want to feel that the help we give has sacrifice, the more joy there is in ofterin the as a King on the Cross, has taught His diethren and inspired "to suffer and to inen. This is a wonderful object-lesson We are all hero-worshippers by bature and we all want to be heroic ourselves,
though we may be too cowardly or lazy to pay the price.
If we want to cowardly or lazy If we want to be kingly we must face
the pain God sends, and learn to thank
Him for it. Some pain we must subHim for it. Some pain we must sub-
mit to ; but dogread submissicn to the in-
evitable, and heroic evitable, and heroic acceptance of God's
will. are very different things. The one is will, are very different things. The one is
kingly and the other is not. Then there might be avoided by refusing to bear the though He may tend us atraight to a Moira O Neill, from fongs of the Glens

MARCH 21, 1907
OUR ENGLISH LETTER
SOME MORE LINKS. Amongst the notices of new books shortly to be published, is one of
short stories, entitled "Odd Lengths." The book has a prefatory note which throws light upon its title, and, in quoting it, I would venture to ask our Home Magazine readers to bear
it in mind, as being fairly applicable it in mind, as being airly applicable to gather from time to time for our corner of "The Farmer's Advocate."
 pieces, except they are what we term odd lengths. They are quite our
best materials-you can see for yourbest materials-yơu can
self. Just odd lengths.
It sometimes happens that the clever purchaser at the bargain coun-
ter can find in its offered "odd
lengths" material which may lengths " material which may not be an exact match, with " something she h "go with something she has at home, triumph the loveliest little rem-
in that of silk or satin which will make nant of silk or satin which will make
her bonnie little daughter a pretty her bonnie little daughter a pretty
blouse, or baby Jean " just the very
cunningest little hood possible, and blouse, or batle hood possible, and
cunningest little
all, my dear, at just half what it all, my dear, at just half what it
would have cost if bought by the would
yard."
Well, just now, if not exactly a
bargain-hunter, I seem always coming across something which, though it may not be exactly a matoh, is yet a connecting link betwen my present surroundings and my home and
friends across the sea. In proof o which, there is a little coincidence connected with each of the Devon-
shire pictures I am sending, and for shire pictures I am sending, and fo
which I hope room may be found. which I hope room may be found. days ago, the sun shining brightly
between just one or two little showbetween just one or two little showers not big enough to be called rain, and not deterring enough to keep mie
at home, I took the train to this pretty little town, within a few miles of Teignmouth. It can be reached
by rail or road, the latter winding by rail or road, the latter winding
up and down hills and between banks ipy-clad and covered with verdure, the former darting in and out of tunnels under the cliffs, with peeps
between of dancing waves, and rocks. and bits of sandy beach, in bewilder and bits of sandy beach, in wewire
ing contrast. The whole journey
was over in a few minutes, and, on learning that the farm to which I was bound was but a mile from the
station, I gathered up my skirts and, taking the right-hand side of
the lovely gardens, with their flow the lovely gardens, with their flow-
ers, lawns and running stream, shown ers, lawns and running stream, shown
in the picture, I trudged on until I reached my goal, Stonelands Farm,
the door of which was opened, and a kindly welcome extended to me by a
bonnie voung matron, one of Canbonnie young matron, one of Can-
ada's daughters transplanted into
English soil My visit was English soil. My visit was not a
surprise, for I had promised her
friends in Canada that I would look friends in Canada that I would look
her up during my stay in Devonher up during my stay in Devon-
shire. "Yes, I was homesick at shire, "Yut Yes, it is all right," as in-
first, now
deed it seemed to be, judging by her deed it seemed to be, judging by her
most comfortable surroundings and
the procporous air which environed the prosperous air which environed
her. To find an Englishwoman in the Canadian is just as adaptable. is it need not surprise us that thi special voung Canadian, happily mar
ried to a fine young Devonshire farm ried to a fine young Devonshire farm-
er, and the mother of a little maiden
of twelve vears of a che should have no regrents jor the step she had taken.
I know that the Ontario relations I know that the Ontario relations of
Mrs. C. are readers of "The Farmare readers of "The Farm
er's Alvocate." thus through its
columns they will learn, before I can tell them so myself, that I have ful
fillerl my promise made in Octotor SHALDON.
Thren ladies were unexpectedly
shown into my room by my landThren ladies were unexpectedy
show into my room by my land
lady a wenk ago, the names upon
whose cards were wholly unamiliar
ultho

THE FARMER'S ADVOCATE

With the Flowers.

THE FLOWER BORDER.
In nine cases out of ten, lack of
success with a flower garden is due simply to the want of a sufficient enromment of the soil. old, well-
rotted manure, plenty of it, thoroughly worked in. will make almost any garden "t blossom as the rose,"
while a little fresh, strawy stuff, it is my intention to do shortly. To any while a little fresh, strawy store,
begin with, the home of my new scarcely incorporated at all, is s.likely
friends is one of those facing the to do more harm than good. In


The Lawn, Dawlish.
beach, and within a few doors of the describing the management of her ber lodging long years ago, when say that she first had the soil reShaldon was the paradise of my child- moved the full width of each border, casional summer-holiday-tide ; and, great trenches one foot of well-rotted secondly, to talk over Canada and manure was packed, and the space Canadian interests will be delightful above inled in with alternate layers, temporarily so, from the land of her manure. Upon the top three inches adoption. of soil was placed, and in this the scription of this quaint, old-world prepared the bed, in succeeding years, little village, with its curious streets but little preparation, save the oc-


Shaldon, from Teignmouth
and lanes, its stone walls and little
bits of gardens, its steep, corkscrewlike lanes, through which one can scramble upwards to wussey-Dee,
and other hits of wild moorland
above the Torquay Ioad, with its views of the sea every here and there But if my pictures are to have roon
found for them, I know that I must be very economical of my words, and must kep my other links for my
H. A. B.
$\qquad$ Many people who are complaining
not qetting a square deal would con
plain a good deal more if they got it. plain a good deal more if they got it. The simple life of the farm maki
atrong character.-C. J. Bell.
explained the pleasant reason why
" Our sister in Ontario tells us that
you are connected with the Organization of Canadian Women, which she
and others have lately, and others have lately joined, to
their great satisfaction, and, as we live just across the ferry, we thought of us have only lately returned from a visit to Canada, and we shall have
much in common to talk about. Will you come over to Shaldon and see begin with, the home of my nell
friends is one of those facing the
asional working in of a top-dressing Whanure, was found necessary. necessary for annuals, it is, nevertheless, quite imperative that the soil be moist and rich. A few plants, such as the Nasturtium, may, it is rue, blossom more profusely in
poorer soil, yet it seems a pity to poorer soil, yet it seems a pity to
sacrifice an almost tropical luxuriance of leafage for the sake of a few more blossoms. If the soil be hard and
stubborn, about one-fourth sharp stubborn, about one-fourth sharp
sand should be added. All manure, sand should be added. All manure,
sand, etc., should ke hauled onto the ground in March, while the ground is still firmly frozen, as in this way
the cutting of the soft soil by wagon the cutting of the soft soil by wagon
wheels will be prevented. It is always a mistake to cut up a
grass plot into flower-beds. Borders
are much more satisfactory, and, as a rule, much more artistic. A border or two along the edge of the lawn
or driveway, and, above all, one runor driveway, and, above all, one run ning about the house, win as many found to give room for as marmer has time for. The hard, sharp line de fining the boundary where the founda-
tion of the house ends and the grass tion of the house ends and the grass
of the luwn begins has something unof the lawn begins has something un proclaim the fact that the house is something extraneous to - nature,
something out of sympathy with the something out of sympathy with the
soft green things that surround it solace a four-foot border of flowers and shrubs, backed by vines, about it, and note the difference. It now
seems to have grown up as a natural seems to have grown up as a natural
product of its locality, in perfect harmony with hill, or woodland, or smooth, green fiels, that may b
In choosing vines for house adorn ment, poople often seem at sea; yet
little mistake can be made in the little mistake can be made in the colder parts of Canada if Virginia
Creeper or the hardy wild grape be Creeper or the hardy wild grape be
chosen for wall covering, and the Clematis paniculata, or simple wild Clematis of the woods, for veranda posts. In the warmer sections, Boston Ivy and Trumpet wane may be matis jackmanii and the beautifu climbing Rose, or equally beautiful Honeysuckle for the veranda. While growing vines to grow, Japanese growing vines to grow, Japanese
Morning-glory, Moon Flower and
Coboea scandens may be grown. As Coboea scandens may be grown. As
both of the former are sensitive to both of the former are sensitive to
cold, they should not be planted out until all danger of frost is past. Better start them in the house, first putting the seed in very warm water
and leaving it to soak twenty-four
hours. Next shrubs or tall-growing plants, such as Golden Glow. Perennial Phlox, Perennial Delphinium, Dahlia, Casto Bean, Corniowers, etc., should be ways irregularly-and outside these, and in the interspaces, any
low-growing plants that may be pre low-growing plants that may be pre
ferred. On the north side, of course very few plants will do well, but Ferns, Columbines, and the bright little Cardinal Flower from the banks of the streams, may always be de-
pended upon, the latter growing very pended upon, the latter growing ver
well if the soil be deep and moist. People sometimes say, "I have no
time to bother with a flower-garden". time to bother with a flower-garden, yet a border such as this about the
house will require very little time and it alone will be suffleient to
stamp the whole place with an air of refinement, and prove the thin beauty which is a

## THE ART OF NOT HEARING.

The art of not hearing should be learned by all. There are so many things which it is painful to hear very many $0^{\circ}$ which, if heard, wil disturb the iemper, corrupt sim plicity and modesty, detract from contentment and happiness. If calls all manner of names, at the first words we should shut our ears and hear no more. If in a quiet voyage of life we find ourselvea
caught in one of those domestic whirlwinds of scolding, we should shut our ears as a sailior would furl his sail, and, making all tight, scud before the gale. If a hot, restless we should consider what mischief the fiery sparks may do in our magazine below, where our temper is kept, and instantly, close the door. If al heedless and ill-natured idlers were brought to him, he would become a mere walking pincushion stuck full of sharp remarks. If we would be should open our ears; when among bad men, shut them. It is not worth while to hear what our neighbors say about our children, what our dress or our affairs.-[The Argus

The Ingle Nook.

## Will Re Bread Maker.

Will
using a
fully ?
A Cheery Greeting.
Dear Dame Durden and Chatterers,
How are you all this cold weather? How are you all this cold weather ?
Just teelmg like myself, I suppose, that
you would like to der yout would like to diraw in a little, closer
to that cheery fireplace in our Ingle Nook. I hope St. Valentine warmed all
your hearts with a little remembrance. your hearts with a little remembrance. He
tell you. He also sent me one in which he pletured me as a most terrible-look-
ing blue-dressed female, with an immense long nobessed which disappeared in the pages of the book I was reading, while
a tiny bald headed urchin, with its finger
in its mouth, stood regarding me with in its mouth, stood regarding me with
awe. The verse below the picture was
called The Wise Girl. called The Wise Girl, making me out
a would-be author, and ending by saying:

> She knows the entire Virgil,
And the spot where Homer
> But the spot where Homer died,
> But she could
II she tried.'

Now, Ohatterers, what do you think o that ? To be sent, a comomon little
woman, with a short pug nose, who woman, with a short pug nose, who and who can not only cook a beefsteak,
but also eat it to perfection but also eat it to perfection
How many of you made val year for tinvelids ou made valentines thi
 oasily made from the old gray and brown square and heart-shaped booklets, on whose backg and leeves are pasted cuptds, laughing maids, babes and flowers, cut
from old papers. Print some composed to sapers. with baby ribbon. I I sent one to my
bachelor brother, and could scaros get him to believe I made it scarce get And others I would say, teach your children have God from their childhood, not have them say, as I heard a lady say
the other day: "My, it is so nice why children are near enough to attend Sunday school; all the little bit I know about God or my Bible, I learned in in the old schoolhouse down school Don't forget, mothers, aye, and fathers, that we are responstble to God for our children, when the "last trump shall
sound." As I have already stayed too long. I will close, by wishing all a happy
and peaceful Easter, and that all and peaceful Easter, and that all may
understand the message of the lillos,
which is "Love to God and your fellow-

That Honolulu Trip.
Dear Dame Durden, - - Many thanks for
recipes for buckwheat cakes. Am sorry to have seemed so long writing to you, must be my excuse.
"Marguerite" might like to know the rain water, and them the hands in hot rain water, and then pour into the paln
of one hand a little olive oil and gran
ulated of one hand a little ollive oil and gran
ulated sugar, and rub until the sugar i
dissolved, the dissolved, then wash again in clean
water (hot, soft,, is fine for cleaning the water (hot, soft), is fine for cleaning the
hands. In answer to your request for a de
scription of Honolulu, am afraid I can't
do fustice to the subject. Was it not do justice to the subject. Was it no Mark Twain who once sald of the
slands : " No alien land in all the world has any deep, strong charm fo oe but that one, no other land could so longingly and beseechingly haunt me,"
and so on? Well, on approaching Honolulu from age, you see, an expansive island, with
ranges of volcante mountains and dee valleys, then the busy clty and sharply-modelled ridge of an old crater, and a characteristic
bounds the view to the east. Immediate ly back of the city is another extinct
volcano; a bare mound, blown up on the side of the mountain, and known as
Punch Bowl
quite a bustling American city; great
buildings of steel and stone shops, electric cars going out to the view is super the mountains, where the waiting for hire, if wanted, to take are to any of the charming spots. It is so
difflcult to decide there are so many things of interest, and it is so unreal-the brilliance of tropical coloring, the profusion of vegetation, the -until you begin to think yourself in dreamland.
Let me the
Let me think of attractions specially The Bighop Museum has a fine collection,
inlustrating the life of the Polynesion The city can also boast of the Executive Builidig. formerly Jolani Palace ; the Judiciary Building, in monarchical times legislative and judical; the Kapuaiwe Building; police station; central fire house; waterworks pumping plant; pos office; Oahu prison, public market, and M. C. A., library, Oahu, College, Queen's
Hospital, Lanalilo Home (for and Haspital, Lanalilo Home (for aged
Nunanu Pali, an elevation $t$ 1,200 feet, and about six miles from
town, lies between peaks of $\mathbf{3 , 0 0 0}$ feet, and it was over this precipice Kamehameha I. drove' the out-generalled defend last fight he needed to make for his great work of unifying the group. It was a dangerous pass, but is now an easy road, driven to the plains on the other side of the island. At one point the road is carried over a deep void upon steel There are other excursions galore, after hase in the immediate neighborhood much space and time, if, indead, I have not taken it already, so I will just men-
tion the great extinct crater of ale, on the Island of Mani, and the ac tive volcano of Kilawea, on Island of Hawaii. On returning from one of
these trips, it is such a pleasure of tounge around and enjoy a pleasure to
lous garden of palms at the Hawatian Hotel, and listen
to the band which to the band which plays evenings, and anywhere-the surroundings may have had something to do with it, of course. The chie? industry is the cultivation of the
sugarcane. The plantations sugarcane. The plantations are ver
large, but the Hawaiians can't pended on for any large amount of labor
so it has so it has been necessary to import
laborers. All 'the tropical fruits grow in pro-
fusion-and the flowers surely I must stop. If I wrote for a
whole week I would still leave somethin unwritten of this lovely place. I advise you to go and see it with your own
eyes. You will find perfect weather whenever you go; the climatect is splendidd,
and I can recommend the and I can recommend the A. \& A. line
of steamers for comfort and speed. I was interested in enquiries about the
Canadian Northwest. We quite recently returned from a three muite recently
through this much-talked-of place, trip through this much-talked-of place, and
shall follow answers to those letters with
great interest. If "New Chum" refers NEW CHOM." written by Edna, Kent Co., we are sorry to disappoint her. All communications
received in answer were received in answer were forwanded as
private correspandions

Another Corn Method

Dear Dame Durden,-To prepare hulled
corn, put 3 quarts of wood Luarts of cold water in a large kettle Let boil five minutes, skimming several
times. Take from the fire and sital ittle cold water the fire and add a Put 8 quarts of yellow field corn in a Kettle, and pour over it the strained lye. Let boil \& an hour, or until the hull Skim out the corn and wash in severs. waters, rubbing with the wand in several
hulls are all the

A Question About Duck Eggs Dear Dame Durden, - Still another new
one ! To how many homes does " The Farmer's Advocate" enter ! I am writers to wife, like so many more of the are not many callings any better, and
certainly not so healthy. I have lived certainly not so healthy. I have lived
on the farm quite a bit; altogether, in fact, since I have been married. I exdays, and the thought of it is not pleasant, for I love out of doors, and $m$
poultry and animals. poultry and animals.
I saw in some member's letter of her
having good luck with duck eggs in the having good luck with duck eggs in the
incubator. I wish she would write again and give her way. We have grood suc
cess with chickens, but haven't cess with chickens, but haven't tried the
duck eggs. Will close, wishing you ever duck eggs. Will close, wishing you every
success and lots of patience.
Will some memer send Will some member send a tested recipe
for orange marmalade? Will send some recipes, which I hope some will try.
Jim-Jams.-1 egg broken in cup, fill
with sugar; 3 tablespoons shortening, 3 with sugar; 3 tablespoons shortening, 3
tablespoons water, pinch salt, 1 teaspoon tablespoons water, pinch salt, 1 teaspoon
baking powder. Mix stiff with flour and
roll thin. Cut with ring and put and roll thin. Cut with ring and put jam Prince Albert Cake.-1 cup brown sugar, 1 heaping cup flour, 1 cup chopped
raisisn, 2 eggs, 1 teaspoon cinnamon, teaspoon cloves, 1 teaspoon cinnamon, 1 ping, $\frac{t}{}$ cup sour milk, \& teaspoon soda.
Rake in two layers and ice. ake in two layers and ice.
Someone try and report success.
Oxfond Co Recipes for marmalade appeared in last
Reek's "About the week's ". About the Apuseared in last
oranges, or part bitter oranges, may be used if preferred.
Address Given-Recipes. $\begin{array}{cl}\text { Dear Dame } & \text { Durden,-1 } \\ \text { eader have been }\end{array}$ four years, and fully adprecate" for
privilege of reading the helpulal sumestion the of the ladies in the Ingle Nook. By being a subscriber to your valuable paper, I
have learned many things helpful tn keeping. Someone asked in last issue for
address of McCall's Magazine: "'The Mr Call's Co., McCall's Magazine: "The Mc. Will someone Clease send a recipe for Neapolitan ice cream, send a recipe butter tarts
Here is a recipe of a good cake. Here is a recipe of a good cake : Brown
Cake.-Two eggs (save white of one for Cake.-Two eggs (save white of one for
icing). 1 oup of sugar, $t$ cup of icing), 1 oup of sugar, $\frac{1}{\text { t cup of molasses, }}$
1 teaspoon of mixed pastry spice, 1 tea-
spoon vanilla, $\frac{1}{\text { ch }}$ cup of butter, 2 cups flour, a cup of sour of butter, 2 cups of in which ha been stirred 1 teaspoon soda. Bake in Icing.- Whip white of egg to a stif
lroth. Boil froth. Boil 1 cup of of egg to a stiff
with water enolated sugar with water enough to cover sugar, until
it hairs, then pour on egg. Stir while
pouring. Then add pouring. Then add teaspoon vanilla
and spread on cake.
HELENA Neapolitan Ice Cream.-One quart cream 2 cups sugar, 6 egrs (yolks), 1 vanilla
bean. Split the and place with the cean, remove the seeds,
and in a double soiiar. Cook, remove from the fire and add the seat the egg yolks until light;
Stir and scalding-hot cream. Stir well, and return to the boiler to cook until the cream begins to thicken. Take from the fire, cool, and freeze. Add
chopped nuts, candied cherrles, etc., to make a pleasant varlation.
Can anyone send a recipe for butter
tarts?
$\qquad$ 1 have received two contributions re
maple mousse, and, oh, Marriett, you and
I spelled it " moose" away ! Beat the yolks of three egge well

1. Bd Add 1 cup maple syrup, and beat again.
Then beat together 1 quart sweet cream Then beat together 1 quart beat again.
and the whiteet of oream, mix all together, and freeze.
2. Maple Mousse, -A mousse or parfait
is a heavy cream, beaten till stiff is a heavy creem, boassen or parfait
sweetened, flavored, packed in a tiff,
inold, set fin tight mold, set in equal parts of salt and
ice: leave for three hours without stirring.
(i.wlatine and the Creatine and thin craam will do, if heavy
requires ontainatle. Maple mousse requires 4 eggs, bllghtly Maple mousse
over these one cup hoiling maple Pour
and cook unt1l thick like custard. Cool.

Oatmeal Wafers and Other Dear Dame Durden, -1 think it sargaret who asked for the recipe oatmeal wafers before Christmas. Her it is : Two cupfuls of oatmeal, one cu one teaspoon sur, one-half cupful of lard solve the soda in half a cupful Dis ing water, and pour over the oatme Ifard and sugar. When cool, stifien wit fiour, roll thin, and bake. For wit garet's hands, the simplest thing Mar is to have a dish with a little honey standing in a handy place, and when you have washed your hands, before when ary them, dip a finger in the honey, and rub all over your hands, then dry as
usual. I believe you will be surprised get and keep.
starch in the rinsing water you a put little work, and do it longer will do better come of Jack's wife? sidering the name for her nice home? thought of "Bonny Brae " or " Bonny Hill," but I suppose she didn't known that, and she'll have it all done and
named. We have much sympathy Lankshire Lass, and that other lady for the sore leg. Ins, and that other lady with
some hope they are getting some better. We have taken acting
Farmer's Adve Farmer's Advocate" for a long time,
and think a great deal of it, and alwase and think a great deal of it, and always,
pass it on to friends in the Old Land.
I would like to I would like to triends in the Old Land.
correspondents both you and your correspondents for the many nice recipes and suggestions we have had; all that
we have tried were good. we have tried were good.
Elgin Co.
NELLIE BLYE.

NOTE. - Will all of the Chatterers and
to their signature. It is a general live of "The Farmer's Advocate " to publish that instead of the post office, and
have my old postal have my old postal gulde almost wor
out (more or less) in hunting out (more or less) in hunting up coun
ties.

Some Recipes from Mattie
Dear Dame Durden, -I have been
silent reader of the time, but did not venture to write som little 1 would come in and have sending some recipes I hope will ${ }^{\text {I am }}$ Jem-Jems. -1 cup of butter, 1 cup of
brown sugar, 1 egg, 3 tablespoons boiling water, 3 egg, teasponns of tablespoons of
solved in the water disthin: in the water, flour enough to roll
warm.
Gingersnaps.-1 cup of brow sume cup of lard, 1 cup of blackstrap, 2 tea-
spoons of ginger, 2 of baking cup of boilling water. 2 of baking sodi, ${ }^{1}$ Will someone please tell me how to
lean wall paper with bread mer Bruce Co., Ont. MATTIE. To clean wall paper with bread crumbs,
take a piece of a slice of breat gently downward, becinning at the top
and brushing towaren bread wrushing toward the flour. The with it. Some use bits of stiff dough
instead of the bread. If there are grease spots, place clean hlotting pare grease
each spot and hold a warm iron over
that for a little white. MOZART RELICS
The small and old-fashioned Mozart It is with a feeling of of Salzhury. It is with a feeling of respect, a
visitor to the spot savs, that one
climbs the three and enters three flights of stairs was born. All the ancient Mozart the two old pianos andient many relics back a hundred years. The the one jarring note in this harmonious as-
sociation of memories is that Moart's skull is in a glass case in the
center of the room. all of him, since room, all that remains tinguish his hoy in the mass of re
mains in the common paupers' grave

## MARCH 21,1907

Children's Corner.
[All letters for Children's Corner must be addressed "Cousin Dorothy," 52 Vic-
tor Ave., Toronto. Otherwise they will tor Ave., Toronto

Cousin Dorothy is sorry that all the letters
which come to her cannot be
The space is not large enough printed. ane and so only the most in-
for them ant and
teresting letters and stories sent in can appear.

A NIGHT WITH DEATH
(By Fred Dawson, Ballite, Ont.) One day in the middle of November party of six men went out to hunt a
old deer which had roamed through th woods at Cobalt for a long time, and could not be caught. The head man ol
the party proposed that each man should the party a different course through the woods, take a different course throught the wood certain place, if they did not shoot th
deer; but if anyone shot the deer, he wa deer; but if anyone shot the deer, he wa
to shoot gix times in succeasion. On man walked through the woods, and find ing a track he supposed to be the deer's, he followed it, and it led to the lake; s
he waited at the lake for the deer t come to drink. Finding it did not come he started out for the meeting place, bu going over a rock, his foot caught in
crevice in it. Instantly he crevice in it. Instantly he fell over
breaking his lag. After a lot of cutting breaking his leg. Arter a lot oce chtusel
at his boot, he was able to free himel trom the rock. He bound his handkerchief around his leg; then he crawled on
hands and knees to the lake. By this hands and knees to the lake. By this
time it was dark, so he gathered some brush up in a heap, and set it allyght
After a while he lay down to sleep, bu Atter a whill long after that he was aroused by a rustling sound about ten rods away
He jumped up, but what to see but tw big balls, almost like fire, coming toward him. He grabbed up his gun and fired a
the object, killing it. Being to the object, killing it. Being too tire was sound asleep: in a few minutes, Naxt morning he fired nine times, on after another, as last as he could. The
miners, thinking something was wrong miners, thinking something was wrong,
started out to where the firing came from started out to where the fing came form
After a long search, they found hm near
ly unconscious, and nearby were the horn of the deer. The wolves had eaten every thing but its bones. The horns meas
ured five feet across. It seems strang that the wolves did not eat the man, but the wind was blowing the other way, an perhaps carried away the scent

LITTLE NELLIE'S LAST PRAYER roto a London hospital
One cold and
A pretty little sufferer
Ry loving hands was borne.
Though sad and lonely Lotty felt
With atrangers all around
Welcomes hearty and outspoken
On eiery side she found.
In the next bed to hers lay And in the sllence of the night These whispered words she said

Ithough you've only come to-day I feel I love you well,
But I have a dreadiul secret fear
Which you must let me tell : This morning when the doctors came They thought I was asleep;
But $Y$ had only shut my eyes,
The sunshine makes them weep.
And then our kind house doctor said With pity in his volce,
It must be donie to save her ufe; There is no other choice." The other said: ' Poor thing, Will ever she pull through? I don't know what to do." Then Lottie said: : Let's pray to God Beanse He's sure to hear:
Our arthly friends are far away.

THE FARMER'S ADVOCATE
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He'll give you strength to bear the sir F. Rorden and others. The King Angels will help you through,
; od says we shall have it we ask, And all God says is true."

I'd like the angels very much
Said Nellie, "but, you see, In this ward all of us are ill,
They might pass over me.
And all of us are dressed alike And all of us are girls,
And when our hair is tossed about They can't see which has curls.

But stop! I know what I can do That there be no mistake if God an holy angel sends
To guard me for Christ's sake 1l stretch my arms and clasp my hands And raise them over my head They'll stay above my head., So Nellie said her little prayer, And may Ho grant her simple faith Ao Christians far and near. To do to me to-morrow cannot help it. Grant me strength sarrow - If Thou dul'st send Thine angel down To Abram and his son Please, may I have an angel too
But let Thy will be done.
himsell has only four now. Just an-
other point, if a big family's parents should die, what would the children do?
They would have to go to some home if They would have to go to some home if
the parents did not leave them anything. There is a man I know that has a big damily, and is very poor, and if he should
die, where would those children go ? They could not earn their own living;
they would have to go to some home. they would have to go to some home.
Therefore, I say that small families are better than large

FRED HUNGERFORD (age 15).
Rockside P. O
The debate on the advantages of educa.
tion to farmers will be held over for a tion to farmers will be held over for a
few weeks so that some of you may few weeks so that some of you may
unswer Fred's objection to large families.

More About China Dear Cousin Dorothy,-This is my first father has taken "The Farmer's Advocate" for a number of years. The Government of Great Britain is far
superior to the Government of China, and China cannot prosper so greatly in the future. Second point.-That the people of Great Britain are better educated than those of China. Third point.-That Great
Britain is a wealthier country than China. China has no great lakes and rivers for navigation. The only water that borders China is the Pacific Ocean, must have navigation.


A Basketful.

I'll stretch my arms and clasp my hands,
And raise them over my head,
So let IIim guard the little chlld Whose hands are out of bed."

And when the nurse pext morning came, Her hands were out of bed, or God had answered Nelle
And Nellie's soul had fled.

> And peacefully she must ha
A smile was on her face,

And of the pain so long endured
There was not left a trace.
Contributed by a friend.
ARE LARGE FAMILIES BETTER THAN SMALL?

Negative.
You all know that there are more small
milies in the world than large ones amilies in the world than large ones, what I want to say, that too many chilthere is sure to be some quarrelling about who is going to have thls and that. And if they have a disease, It
will soon go away in a small family; but will soon go away in a small family; but have heard people say that rich men
al ways have hig families. I say they

Well, I think Y have spoken long enough
 Wallacetown, Ont.

## THE LETTER BOX

$\qquad$ to "The Famer's Advocate" before, but every week when it comes we always live on a farm, and prefer it to the city. We go to school, and have quite a few studies. We will send a few riddles : What's on doors What goes all day,
inch ? Ans.-A clock.
A colored waiter carried platter turkey; he let it fall. What harm did it do to what four nations? Ans.-Downfall of Turkey, break-up of China, overflowing of Greece, and confusion of Africa. Suppose you should break your knee,
where should you go to get another ? where should you go to get another ?
Ans.-To Africa, for that is where the negroes.
We will
We will now conclude, wishing ." The
Farmer's Advocate "l every Farmer's Advocate " every success.
WILLARD J. DINNING, BERT G. DIN NING, CLINTON w. BENNET (chums)
any other paper we have in the house. I situated in the north-western part of Kent-not on a farm, still we take "The Farmer's Advocate." I work in the Sydenham Class Works, which runs ten
months in the year. Here is a story for
you:
One day a frlend of mine got hard up for money; but he had a cow. He
wanted to sell me half; so I did buy hal wanted to sell me half; so I did, buy hal
from him. When it came night, I took pail, and started out to get hale the milk. He said, as we met, "Where are you going ?" I said, "I came for hal the front hall; you don't get any milk." But I had to carry water three times a day, and furnish all the foed. One day
nhy half hooked him and threw him over thy half hooked him and threw him oved
the fence. Then he had me arrested, the fence. Then ho had me arrested.
But I got even with him. I killed my half, and his half died.

Wallaceburg, Ont. CHAS. C. HODGES

## THE WOMEN'S INSTITUTE.

Haring but recently returned from an Institute campaign, one naturally reviews the work accomplished and forecasts the future. Generally speaking, the organizetion is flourishing, and marked resulte have been obtained. When we think of the thousand women working for the betterment of the home (that greatest of all institutions), wo must admit that old Ontario will eventually feel the pulse of the movement. Moreover, our ploneer experiences will doubtless awaken the sister Provinces to a realization of what they may accomplish along similar lines. Our American neighbors, too, are watchng our onward march with in

On its inception the Women's Inetitute grew slowly.: People looked upon it with disfevor, and many were the con jectures as to its value. Even yet we hoar the " If women would stay at home from
the Institute Club, and mind their own work, they would get along better. I
never go I My own home is quite good never gol My own home is quite good
enough for me.,
, ، or

Domestic wience, Indeed I Give me the good old days, when we cooked oun
I often wonder why the average mind confounds cooking with domestic sclence and views the Institute movement from
the standpoint of the things Surely we are all-round individuals, and require food for thought as well as ac-
tion. Home life has varione denende tion. Home life has various demands; housekeeping various aspects and methwoman has a monopoly of all the good things. By meeting together the ladies exchange ideas, and assist each other along lines relative to, not away from,
the home. If the Institute movement ever degenerates so far as to take women away from their homes and make them less worthy of womanhood, it ought to be discountenanced. On the other hiand,
however, we find it improving both homes however, we find it improving both home
and communities, Tbreaking down jealousy uniting town and country in a common cause, engendering a friendliness heretofore unkrown, and spreading useful in
formation. As women' we are awaking to the fact that our reasoning faculties were given us for use, and that we are quite capable of using them to advan retiring nature was nothing more than self-consciousness, which is neither commendable nor to be desfred in any indl vidual.
General
makingally speaking, the Institute is localities rapid strides, but there are some localities where it has not proven suc cessful. Lack of punctuality, desultory meetings (due to absence of preparation) the critical spirit, cliques, and many
other things, have contributed to this end. Many ladies have the tdea tha they cannot give a talk on a definite subject; others are afraid of their own do the best they can, and form the backbone of the Institute.
" MARGARET MANSFIELD."

## THE FARMER'S ADVOCATE

Bob, Son of Battle.
By ALfRED OLLIVANT
 CHAPTER XXVIII.-(Continued). At the door of the hall the Master met
David. David.
"Noo Andrew, lad, yo're comin' along wi' Andrew and me," he said; "Maggie'H
niver forgie us ty we dinna bring yo' home
wi' " Thank you kindly, Mr. Moore,' th boy replied. "I've to see squire first The Master faltered a moment. 'David, ha'n' yo' spoke to yer father yet ? he
should, lad
"I canna," ha gesture of dissent.
canna," he said petulantly.
' An ' yo' don't yo' the other advisod. As he turned away he heard the boy's
steps, dull and sodden, as he crossed the alll ; and then a thin, would-be cordial voice in the emptiness :
". I declar' if 'tisna David! The return
0 , the Prodegal-he ! he ! the Prodeegal-he ! he! The return
So ye've the proper place. say ye, for yer fatherhe! he ! Eb, lad, but I'm blithe to see
ye. D'ye mind when we was last ye. D'ye mind when we was last
thegither? Ye was kneelin' on, mat
cheat: 'Your time's come, dad,' says chest: 'Your time's come, dad,' says
you, and wangs me o'er the face-he! he ! mind it as if 'twas yeeterday. Weel,
weel, we'll say nae mair about it. Boys will be boys. Sons will be sons. Accidents will happen. And if at first ye ye
don't succeed, why, try, try again-he !
he

Dusk was merging into darkness when Dalesmants Daughter. Andrew reached the had been long dark when they emerged from the cosy
parlor of the inn and plunged out into the night.
As they crossed the Silver Lea and trudged over that familiar ground, where
a fortnight since had been fought out the a
battle of the Cup, the wind futtered past them in spasmodic gasps.
" "There's trouble in the wind," satid the Master
All day there had laconic son. air, and the sky dangerously blue. B now a world of black was surging up
from the horizon, smothering the star-lit night ; and small dark clouds, like pufi of smoke, detaching themselves from the main body, were driving tempestuously orward-the vanguard of the storm.
In the idistance was a low tumbling like herv tumbrils on the floor of heaven.
All about, the wind sounded hollow like a mighty scythe on corn. The air was
opyressed
with a leaden blackness no limmer of light
they began the ascent of the Pass they
reached out blind hands to feel along the
rock-face. A-sea-fret, cool and wetting, fell. ew big rain-drops splashed heavily down
The wind rose with a leap and roared past them up the rocky track. And the
water-gates of heaven were flung wide. Wet and weary, they battled on, think
ing sometimes of the cosy parlor behind ometimes of
ing whether Maggie, in flat contradictio
welcome them ; or whether only Owd
Bob would come out to meet them.
The wind volleyed past them like
them from above ; spat at them from the
their feet.
Once they halted for a moment, finding
rock.
"It's a Black Killer's night," pantad
the Master. "I reck'n he's oot,"
"Ay," the boy gasped, "" reck'n
Up and up they climbed through
hlackness, blind and buffeted. The ete
hackness, of the rain was all about them
the clamor of the gale above; and
beneath, the roar of angry waters.
beneath, in a lull in the storm, the Master turned and looked back into the
blacknoss along the path thay had como.
"Did ye hear onythin' 2 " he roared
above the muffled soughing of the wind. Nay !'"Andrew shouted back. wind $\begin{array}{lll}\text { " I thowt I heard a } \\ \text { Master cried, peering down. } & \left.\begin{array}{l}\text { step! }{ }^{\text {But }} \text {, the } \\ \text { could }\end{array}\right)\end{array}$ could he see.
Then the wind leaped to life again lik a glant from his sleep, drowning all sound with its hurricane voice; and they
turned and bent to their task again turned and bent to their task again.
Nearing the summit, the Master once more. "There. it was again!" he called; but his words were swept away on the atorms;
afresh.
Ever
Ever and anon the monn gleamed down they could riot of tossing sky. Then with the water tumbling down its them, face; and far below, in the roaring
gutter of the torrent. Hardly, however, had they time
to glance around when and to glance around when a mass of cloud
would hurry jealousy up, and all again
was blackn was blackness and noise.
At length
$\qquad$ emerged into the Devil's Bowl. Thass, and overcome with their exertions, they fung
themeelves on to the soaking ground to draw breath
Behind them, the wind rushed with a
sullen roar up the funnel of the Paga. It screamed above them as though ten million devils were a-horse ; and blurted out on to the wild Marches beyond. moon gleamed there, still panting, the moon gleamed down in momentary gra-
ciousness. In front, through the lashing
rain, they could discen rain, they could discern the hillocks that
squiat, hag havike, round the Devil's aquat, hag-like, round the Devil's Bowl ;
and lying in its bosom, its white waters usually so still, ploughed now into The Master raised his head and craned Yorward at the ghostly scene. Of a sudden he reared himsell on to his arms, and
stayed motionless a while. Then he dropped as though dead, forcing down
Andrew with an iron hand Andrew with an iron hand
"Lad, did'st see ?

$$
\begin{aligned}
& \text { "Lad, did'st see ? } \text { ?" he whispered. } \\
& \text { "Nay; what was', " the boy replied } \\
& \text { used by his father's tone. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Neys by } \\
& \text { rosed by } \\
& \text { "There ! }
\end{aligned}
$$

$$
\begin{aligned}
& \text { There! as the Master pointed forward, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { bur of coud intervered pointed forward, all was dork. } \\
& \text { Quickly it passer ; and again the lantern }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Quickly it passed, and again the lantern } \\
& \text { of the night shone down. And Andrew }
\end{aligned}
$$ looking with all his downes, And Andre indeed.

There of the Tarn, packed in a solid phalena with every head turned in the same
direction, was and Nirection, was a flock of sheep. The say
were motionless, all-intent, staring . With were motionless, all-inteent, staring with
horror-bulging eyes. A column of steam
rose horror-bulging eyles. A column of steam
rose from their bodies into the rain-
pierced air. Panting and palpitating, yet. pierced air. Panting and palpitating, yet
they stood with their backs to the water
ns though determine as though determined to sell their live
dearly.
Bryond them, not fifty yard away, crouched a hump-backed boulder casting a long, misshapen shadow in the
moonlight. And beneath it moonlight. And beneath it were two
black objects, one still struggling feebly black objects, one still struggling feebly.
|/ The Killer ! " gasped the boy, and all ablaze with excitement, began forging
forward. Steady, lad, steady!" urged his
father, dropping, a restraining hand on
the boy's shoulder. Above them a huddle of clouds flung in
furious rout across the night



On they crawled, lying prone during the
blinks of monn, stealing forward in therain on the waters of the Tarn, and the
sobhing of the flock in front, warned
They skirted the trembling pock, pass-
ing so close as to brush against the
tanking sheep: and yet unnoticed, for
the sheep
tragedy in forme. soil-absorber in the
()IV. When the moon
Was in. Androw conld hear them huddling
and stampinge in the darkness. And
Nope the Torn - 10 an tivo crevt

could hear, right before them, the smack
and slobber of bloody lips, ohewing their
blo and slowber
bloody meal. $\qquad$ "Say thy prayers, Red Wull. Thy las
minute's come !'" muttered the Master
rising to his rising to his knees. Then, in Andrew's ear: "When I rush, lad, follow! " Fo
he thought, when the moon rose, to to
jump in on the great dog, and, surpris jump in on the great dog, and, surpris-
ing him as he lay gorged and unsuspiing him as he lay gorged and unsuspi-
cious, to deal him one terrible swashing cious, to deal him one terrible swashing
blow, and end forever the lawless doings of the Thailless Tyke.
The lawless doings The moon flung of its veil of cloud.
White and cold, it stared down into the White and cold, it stared down into the
Devil's Bowl ; on murderer and murdered. Devil's Bowl; on murderer and murdered
Within a hand's cast of the avengers Within a hand's cast of the avengers of
hlood humped the black boulder. On the border of its shadow lay a dead sheep and standing beside the body, his coat all
ruffled by the hand of the storm ruffled by the hand of the storm-Owd
Bob-OWd Bob o' Kenmuir.
Then the light went in. Then the light went in, and darkness
overed the land. HApter xxix.
It was Owd Bob. There could be no
nistaking. In the wide world there was
one Owd Bob o' Kenmuir. 'T
silver moon gleamed down on the dat
head and rough gray
lying with bis face
that he might his face
Once he raised himself on his arms: $h$blind man praying. fe passed, a weary
cain; and he moaned and noaned likeman in everlasting pain
Then the darkness lifted
be stole a furtive glance. a miome a murdorfront.
It was
moonlightIt was no dréam; clear and uel in the
monnlight the humpackeddead sheep; and that gray ficure, beceuti-
ful, mottonless, damned for all eternitydead shep, ; and that gray figure, beeuti-
ful, motlontess, damaned for all eternity.
The Miaster turned his
The Master turned his facehis eyes: b
Then his countenance was
Hee he! he "o'scura little man he
agony of his merri
he! " "and he shook his fist wague-he
the unconscious gray dor a
nither grudge fort thisme "-and he leant back and shoecipated
The man below him rose heavily to hi
reat figure swaying from side to sid
he which no man can wasthate. on his
"Feyther ! feyther $!$ do 'ee not ," ho
Mended, running after his father and ho
ing impotent hands on him.
Rut the strong man shook him of 1 tkn
h flv, and rolled on swaying
ing, with that awful expression plain t."
see in the moonlight.
In front the litule
In front the little man squatted in the Hisen b!ood-foe was forgotten ; the deadthought to flee.
Coble still: and took no ank in the agony of that moment. Has
he langhed, malignant jory in his vice that of a lost soul was wrung a from hime
waitin' this "ans wid arain "I've hin the Tarn thrilled in cold pity; out of the
huddledshed ; and in the background the huddled. flock edged closer. The world hung balanced on the pinpoint of the
moment. Every eye was in the With dull, uncter Moore stared as bidden. There was ames gray dog naked in the moonlight, heod-
less still of any witnesses. murdered sheep, lying within and withore the
that distorted shat hat distorted shade; and there the He stared into the shadow, and still The shadow of the boulder had moved ack.
The thour and The shadow of the boulder had moved:
Motionless, with head shot Ayd butging eyes, he gazed.
Ay, ay. ay; he was sure of it
dim outline as of a lion couchant
very thickest
of the blackness.
if trembling that he must such or the strong arme about his waist but ing figure ; till at length they crouch could discern the line of arching liainly me crest, thick as a stallion's, the time. There he lay in the deepist that gigantic, revelling in his horrid deltack, And they watched him now he burrowed into the spongy flesh now turned to lap the dark, pool which
glittered in the moonlight at his spor Mittered in the moonlight at his side like
claret in a silver cup. Now lifting his head, he snapped irritably at the rai drops, and the moon caught his wicked dripping from his law. And again, fasi ing his great muzzle as if about to rais he let the delicious nectar trickle down So he went ravish his palate. hodding in slow-mouthed gluttony, wisely in the stillness, betwern the claps wind, they could hear the smacking of
his lips. While all the time the gray dog stood
vefore him, motionless, stone motionless, as though carved At last. as the murderer rolled his
great head from side to side, he saw that still figure. At the sight he leaped
back, dismayed. mouthed roar that shook the waters of he Tarn he was up and across his victim wh fangs bared, his coat standing eriect So the two stood face to face, with The wind hushed its siming them The wind hushed its sighing to listen.
he moon stared down, white and dumb Away at the back the sheep edged closer
While save for the everlasting thunder he save for the everlasting thunder of hen a voice, clear yet low and far away. ke a bugle in a distant city, broke the
lence. There was no " anger in the tones, only
incomparally e rerroach cracking of a reproach, the sound of At the call the great dog leapt round,
$\qquad$
lonesomeness of the Devil's Bowl upeal The little man's white hair was bared to

he storm: $\begin{aligned} & \text { huried ulfe And there was such an ox } \\ & \text { ars }\end{aligned}$
risen: the littlo man on the mouncl fathor, who had trusted him him friend and

## Allegheny General Hospital <br> training <br> SGHOOL FOR <br> NUREES

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when Prlmoser
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Rev. John Potta, D.





MONEY IIV CANARIES Favavta COTTAM BIRD SEED

About the House. Current Events

## Had a Nasty Bronchial Gough

As A. Atter Eificect of Pnoumonia Dr Chase? Syyrup ot Linseod and Turpentine was Used.
 Harker in the fillowing letter, that Dr.
Chase's.s. Syrup of Linsod and Turpen-
 Of oolds with the iltile onems Mrs. Walter Harker, Sydenham,
Frontenac County, Ont., writes : "Dr. Chase's Syrup of Linseed and Turpentine has proven a friend to me in
times of colds with my little ones. I times of colds with my little ones. I have tried many others, but have found
none just as good. My little boy, about none
a year old, had pnoumonia, and was left with a nasty bronchlial cough, but Dr. Chase's Syrup of Linseed and Turpentine
is helping him wonderfully, and I is helping him wond
sure it will cure him.
"We have also used Dr, Chase's Kid-ney-Liver Pills, with splendid results, and
have great faith in all of Dr. Chase's have great faith in all of Dr. Chase's
medicines."' medicines.
cure of croup, bronchitis, whooping cough, asthma, and severe coughs and Turpentine is the "standby " for such ailments in the great majorty of homes;
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manson, Bates a Co , Toronto

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Tan Akins, Make Rute, to.


名 by th mot
Tor citiot poailliy hav


A dolicions drink and a sustaining food. Fragrant, mutritions and economical. This orcellent Cocoa mealth, and enables it to reait winter's extreme cold.

$\$ 12$ WOMAl's SUIT8, 85
Smaty

Have You - Grain To Harvest?



 strain upon man, team, and machine. Binder.
Bhort, you will want a Deering Being constructed so largely of
steel, it combines greatest strength steel, it combines greatest strengt
and durability with lightness.
Considering its adaptability kinds of land and to every grain crop, it is withal an exceedingly simple ma-
chine being easy chine, being easy to handle and keep
in order. Perhaps Perhaps the strongest feature of
the Deering is its capacity to cleanly gather the grain.
The many and delicate adjust-
ments of the reel make it gather up tangled down grain almost equally as well as standing grain. Deering binders a
The wide-cut machine is specially

adapted to the use of the large grain grower.
Its capacity is remarkable. is a most valuable quality in the busy, all too short, harvest deys the busy, We have only space to a few of the Deering good points
here. here.
Every intending purchaser of a book and study the machine. The Deering line of harvesting ma-
chines is complete and chines is complete and includes, besides binder twine, mowers, tedders, sweep rakes, side delivery rakes, hay loaders,
stackers. Also a complete line of tillage stackers. Also a complete line of tillage
implements and seeding machines, com-
prising disk drills, shoe drills ho prising disk drills, shoe drills, hoe drills,
cultivators and seeders. smoothing cutivators and seeders, smoothing,
spring-tooth and disk harrows. land
rollers and scuflers. Also rollers and scufflers. Also gasoline end-
gines, cream separators, hay presses gines, cream serarators, hay presses,
wagon, sleighs, and manure spreaders.
Cll Call on the local Deering agentand dis. cuss with him the qualities and advan-
tages of Deering harvesting machines. tages of Deering harvesting machines.
Any of the following branch houses Any of the following branch houses
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is a flour which is equally good for both bread and pastry. "Five Roses" is the one flour on the market which gives the same high-class results for all kinds of plain and fancy baking. It is the flour which should be found in every kitchen cupboard, and every cook and housewife who desires sweet, tasty bread, and light and flaky pastry, should order it from her grocer

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Correspondenoe College, Limited.

FARM FOR SALE




Health in the Home
household sanitation.
By Mary E. Allen Davidson, M. D. SURROUNDINGS OF THE HOME Chapter I.
Before beginning the talk on home surroundings, I must ask my readers to remember that if what is said is to be helpful, it must be frank. Insanitary conditions must be exposed, and to do so, subjects that are usually ignored must be discussed plainly. I shall try to speuk as clearly, as earnestly, and as faithfully, as if I tor, pointing out danger to the health of the household, and hoping that at least enough heed will be given to insure a careful consideration of your own home conditions to find out if anything could be bettered. Also let it be understood that I am quite assured that farmers' children are by far the healthiest, so that when insanitary conditions of farm homes are pointed out, do not say, All fudge ! farm children are from your and dismiss the subject from your minds. They have cer tainly the best chance to be healthy with God's gifts of fresh air and sunshine lavished so prodigally. But these are sometimes nullified to some extent, and the little ones on the nesses that these gifts many nesses that these gifts of nature
help to render less lastingly hurtful. But why not always work with nature, instead of against her ? Does it not behoove parents to think anxiety to themselves and suffering to the children could not be prevented, and all rendered more comtion to surroundings? more atten be forgotten, either, that the farm contributes quite a large percentage of the victims of consumption and
The ground on which the house stands should be well-drained. The cellar should never be damp, nor water allowed to lie in it. This will
be dealt with fully when the inside be dealt with fully when the inside
life of the home is considered. No stagnant water should be allowed to lie near the dwelling, such as ponds,
sloughs, etc. Hurtful sloughs, etc. Hurtful gases are con-
tinually rising from and vegetable matter. These not only are hurtful in themselves, but the healthful oxygen in the air in the
region of the water is used region of the water is used up in vitiated in several ways. It loses
its tonic properties, is not lo buoy its tonic properties, is not so buoy-
ant and exxilarating, and is loaded
with gases that with gases that are poisonous to the
system when inhaled system when inhaled. An open drain
rom house or outbuilding is especially dangerous, because of the large amount of decaying matter it is like-
ly to carry. Such drains should al ly to carry. Such drains should al-
ways be closed in, at least until a point is reached where the air surrounding the home will not be con-
taminated aminated
How about the disposal of garb-
age?
Householders should the barrels or tanks for slops. When these are emptied, quicklime or other
effective disinfectant should effective disinfectant should be scat-
tered round the barrels ground sprinkled by the spilled slops, and a generous amount should be
thrown into the barrel and on the thrown into the barrel and on the
cover. This would improve present conditions, and make these besent less of a camping and feeding-ground
for flies, if, indeed, they are not a
breeding-place for them. When the life-history of the house-
fly is as thoroughly investigated as
that of the mosquito has been its that of the mosquito has been, as
connection with many diseases as a
causative agent causative agent will be demonstrated,
not in the same way by direct inser-
active in the spread of disease, be cause the mosquito has only one we
of infecting its victim, and only a portion of the mosquitooes find a ights on the table or crawls that the children is a menace.
No garbage should be thrown out mals will dispose . The farm aniand other vegetable refuse, peelings refuse; but where not so used, these khould all be burnt. The furnace or kitchen stove should be amongst our most patronized house-cleaners. Do not throw slops and garbage
near your kitchen door. At least do not have it so that in the spring you will have a semi-solid conglomeryou have to wade every time whioh in and out, and of which you go carry in a load on your boots, to be
deposited on your floor, dried into dust and inhaled. This will be a slough of despond to your children of which the worst consequences may if you have no sink clothes. So, pipe, carry all slops and refuse well Io the unfrequented side of the yard. dig the groung sprinkle with lime and
While shade trees are very desi able, both for shade and ornament they should not be so close to the
house or so thickly planted as to exclude most of the sunshine or to interfere with the free circulation of air. This shuts out the purifying induences of sun and wind to a large dampness.
Thom house should never be supplied dangerous. Even when is alway care is taken, the water runs great chances of being contaminated by animal excrement
Outbuildings on the farm should to prevent barnyard excrement hous being tramped into the house, to b dried und inhaled, loaded onto the lothing and hands, and so rubbed in their food.
So fence in a good yard. Have a nice front lawn, with a border of fowers and a gravelled walk to your
front door. At the rear or side have a large yard. Use plenty of gravel round the door for some distance. If you have gravel walks leading to ter. Your vegetable garden the betso be in the same enclosure with the house. An acre fenced in and planted round with trees, and so divided-inyard and vegetable garden-will give ideal home surroundings, will afford a cean, shady playground for the children, and a place where the grown-
ups can rest brain and body or find a pleasant change of work in, or find or flower culture. It will pay to make the home surroundings beautiful. Every farmer can have such a home with farmer van have such a Just a little time and thought and gratification to himself result will be tion to others, and a lasting benefit and pleasure to all the family. the children to play in, with a shady plot of grass, wili be a great help
towards keeping them healthfully employed. If the sand can be dumped in a great heap, of clean, shifting specially clean corner big tree in a specialy clean corner, where the air
is pure, the questions of clothes and amusement and exercise are solved for the greater part of the day, as far as the younger children are con
$\qquad$ Potato (Triddle Cakes.-One cup Five
Roses flour, 1 teaspoon baking powder, ${ }^{\text {and }}$,
toaspoon salt, 2 large potatoes (gratod). toaspoon salt, 2 large potatoes (grated) ry.


MARCH 21,1907
HE FARMER'S ADVOCATE

PURITS FL MUR



Adertiomentas will bo insertod ander thit

 $\mathrm{B}^{\mathrm{UY} \text { Yioh tarming and graing land in ing }}$
 strathrov. Ont.



 TMPORTANT tito stockmon -Humaired dod



 $\mathrm{S}^{\mathrm{S}} \mathrm{S}$ Boe Collit Pups- Three extra good bitobess



 $\mathrm{W}^{\mathrm{ANTED} \text { dred }}$ Working forema, for s.x.-nnn.









Special ${ }^{- \text {Several } 1 \text { Irtaclase farms: ready }}$ for rerp;


 THURSDAY, MARCH 28th.

The property of VALENTINE FICHT, Orlel, Oxford Co., Ont., six miles from Woodstook, G.T.R. and C.P.R.

55 head of Scotch and Scotch-topped Shorthorns. 5ituran


 Teams will meet the trains at Woodstock on morning of the sale. Catalogues on a pplication

CAPT. T. E. ROBSON,
VALENTINE FICHT,


BUCHLANANP PITCHING MACHINE For unloading hay and all linds of loose gration





The Common-Sense Sheaf-Lifter Vorks in connection with pitching Mochine and
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culars on
PORTABLE
WELL-DRILLING MACHINES

DRILLERS
SUPPLIES.
Woll-Drilling

Messers. Hodgkinson \& Tisdale, Beaver . Campbell, of Smith's Falls, Ont., the Maid imported Clydresdale fillies, Queen' Maid and Silver Queen, the former first,
and the latter second in the yearling and wo-year-old classes at the Ontario
Horse Show, Toronto, Feb., 1907. Also Morse Show, Toronto, Feb., 1907. Also,
to Mr. Walter Lawson, of Coldwatar, nt., the five-year-old stallion, Roya
Prince [ 3802 ], winner of third prize in class of 13 at same show, and for whioh
long prices were received from both parties.

QUISTIONS AND ANSWERS. FIXING SCALES TO WEIGH Please give a plan for arranging scales
areighing stock in basement barns, the ales to stand on harn floor above and atform below; scales weigh $2,000 \mathrm{lbs}$. Ans. - Make a stout wooden frame to
on platform of scales. From the our corners of frame, let iron rods or
ire cables descend to platform on base ire cables descend to platiorm on base-
ent floor, large enough for one animal. Arrang ments for keaping cattle in placo
and, also, to hin ler tower platform from nd. also, to hin ler lower platiform from
swinging about too much, can be made to wit. We know of one man who has such rm but a few inches higher than flaor

# 496 <br> THE FARMER'S ADVOCATE <br> FOUNDEI <br> <br> THE MUTUAL LIFE OF CANADA <br> <br> THE MUTUAL LIFE OF CANADA <br> <br> Head Office: WATERLOO, ONT. <br> <br> Head Office: WATERLOO, ONT. <br> A Progressive Company with a Clean Record---Another Year of Great Success---Policy-holders Proud of the Company's Splendid Achievements. 

## 32TH ANNUAL STATEMENT.

## INCOME



DISBURSEMENTS

## REPORT OF THE DIRECTORS.

Necember 31st, 1906, together with the for the vear. which ended o

INSURANCE ACCOUNT.-The new business for the year amounted 092, the total new issue and revivals for the year 43 revived Policies for $\$ 52 .-$ of this, except $\$ 46,000$ written in Newfoundland, was obtained within the Domin'on of Canada
986 The total amount of business in iorce was $\$ 46,912,407.58$, under 30 , INCOME.
ing for premiums, $\$ 1,604,58174$ for year amounted to $\$ 2,072,423.13$, be irom sale of real eotate $\$ 3194$; interest and rents, $\$ 464,646.98$; profit

PAYMENTS TO POLICY-HOLDERS.-The total amount paid t
-holders during the year was $\$ 679,662.20$, as follows
Death claims, $\$ 327,975.50$; matured endowments, $\$ 168,486$; pur Chased policies, $\$ 88,607.47$, surplus, $\$ 83,947.55$, and annuities, $\$ 10,645.68$ While the death claims were somewhat in excess of the previous vear, the ratio to the an
able experience

THE EXPENSES AND TAXES were $\$ 3338,717.40$, being $\$ 10$
24.36 less than 1905, and only 16.31

ASSETS. -The cash apsets at the close of the yoar amounted to
$\$ 9,900,845.20$, made up as iollows
$9,900,845.20$, made up as follows
Mortgages, $\$ 5,013,617.45 ;$ debentures and bonds, $\$ 3,429.025 .49$
louns on our own policies, $81,129,517.25$; premium obligations, $\$ 2.5$, 786.38 ; real estate, $\$ 900.26$ : Company's head office building, $\$ 30,875.79$
cash on hand and in the banks, $\$ 271.092 .58$. The due and deferred pre miums, less cost of collection, $\$ 286,981.81$, and interest duc and accrued, $\$ 197,712.83$, bringing the total assets up to $\$ 10,385,539.84$, Deing an in-
crease of $\$ 1,089,447.69$ over 1905 . The policy of the Compan-
The policy of the Company
mortgages on real estate, municipal
policies. Our debentures and bonds
though their market value is a sum
No lósses were made on i
forescen, none are anticipated.
The balance of real estate acquir
was disposed of during the year at a prot
ing at the end of the year being only $\$ 17,056.26$, the amount outstandlell due during the clusing days of the vear. and A large portion of this Some of the arrears are due on Western loans, where borrowers were un-
able to market able to market their grain. It is to be regretted that the elevator and
railway facilities are not adequate to coable farmers to realize apon their to the demands of the West, so as to
ena after harvest. Great hardship has ensued in many instancas
cause. ande cause, and it is to be hoped that some measures of relief will be afforded,
so as to avoid a recurrence of so as to avoid a recurrence of this misfortune. In the Province of Ontario, all mortgage obligations were extra-
ordinarily well paid. the amount in arrear being but trifling
iiorthy Worthy also to mention that on an investment of trifling. It is note-
of Winnipeg not one dollar of interest of Winniper not one dollar of interest was in arrear.
Your Directors ing the year, and were able to invest the funds monetary conditions durrates of interest than heretofore. They were fortunate in and at becter
choice municinal dering some choice municipal debentures extending over a long period of years, which
will realize a ver satisfact will realize a verv satisfactory return. Mortgage period of years, which
rates of interest considerably were made rates of interest considerably in excess of those obtainable in recent years.
and the result of these favorable invost the average rate" carned upon the invested assots. while in the advance of - The conce through many years in the future the benefit there fion, viz... combined were ascertained on the Company's standard oi valua1st. 19013 . on Institute of Actuaries $19 n 0$ From that time to January interest, and thereafter on the same table with mortality with $3 \frac{1}{2}$ per cent were $\$ 9,182.161 .26$ amounted to $\$ 9,053.332 .18$, and the interest. The The increase in the leaving a surplus over all lialifities of $\& 1$ to liabilities ings for the year amounted to $\$ 305$ was $\$ 251,377.46$, and the total earn puted on the Government standard of valuatin our liabilities were comof the year would havent amounderd of valuation. the surplus at the close cluded in our assets, and verrified thas examined in detail every security in
 passeds all items of commentiture, inclacting death to month examined and ments to policy-holders. The Manager, officers and staff contimue to discharge their respective duties to the satisfaction of the Board, and in the best interests of the
Company. On hehali of the Board.









THE DAII．MFG．Co．
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The Fairchild Co．，Winnipeg，Man．
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Next winter＇s profits will be greater
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Pan－a－ce－a makes digestion in the
fow or chick，a perfect operation fowl or chick，a perfect operation．
Thus the largest possible amount Thus the largest possible amount
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verted into bone，muscle，feathern verted
eggs，ett
DR．HESS Poultry PAN－A－GE－A
is the prescription of Dr．Hese
（M．D．，D．V．S．）and is a scientific tonic－a guaranteed egg producer and sure remedy for gapes，
cholera，roup，etc．Endorsed by
lon leading poult－y associatio 3 sin
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uthors in handling squabs，telling，in

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Sent，prepaid， $\begin{aligned} & \text { rom } \\ & \text { Sor The } \\ & \text { vocate＂．office for } 80 \text { cents．}\end{aligned}$

The Directors met subsequently，and re－elected Mr ． r．Robert Molvi Sresident ：Mr．Alfred Hoskin，K．C．，First Vice－President，and the Hon． 1r．Justice Britton，Second Vico－President of the Company for the en－
（Booklets containing the full Report of the Annual Meeting，includ－ ing Financial Statements，list of securities held，and other important fea－ ures of the business，are being published，and will in due course be dis－ ributed among the policy－holders and others interested in the Company．）
W．H．RIDDELL

Waterloo，March 7th， 1907
1907.

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HOMES


For Settlers WESTERN ONTARIO MANITOBA SASKATCHEWAN ALBERTA
How Made and How Reached SETTLERS' WUID Gor froc coploo train servico for settlora mikerg of paption
 WESTERN CANADA Cription of of the
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TIME TABLES showing dooblo danly TOURIST SLEEPING CARS






A Great Opening for a Practical Dalryman

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When Writing Please Miontion this Paper


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we have made for the selection
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It is an absolutely sure preventive and cure for indigestion and scours in calves or young pigs, and saves thousands Ontario every year. CARNEFAC is convenient to use, acts quickly, and never fails to
give satisfaction. If your dealer has not Carnefac, take no substitute, but write not Carne-

THE GARNEFAC STOCK FOOD CO'Y Tononto, Ontario.


MARCH 21, 1907
QUESTIONS AND ANSWERS. Miscellaneous.

## MUSTARD SPRAYERS

 You published an article in a May nul ber of "The Farmer's Advocate," 190on spraying wild musta:d. Could yo please give me the address of a company
who manufacture a gool durable sprayer who manufacture a gool durable sprayer
in Cenada? Wild mustard is a terrible pest in this vicinity. Ans.-Spramotor Co., London,
the Little Giant Sprayer Mig. ronto.

BEANS. What kind of land would be suitable for
growing beans ? Is there an dit growing beans? Is the:e any difference
in the locality in Western Ontario, and
how many bushels per acre would be how many bushels per acre would be
good average crop under suitable circumstances ? $\quad$ YOUNG INQUIRER.
Ans.-A rich gravelly or sandy loam is
considered best adanted to bean cultur although in the bean district of Kent and
Flgin Countius Elgin Counties, Ont., a well-drained black
clay loam is excellent. In some other parts, it is said, they do not do well on
this kind of land, being sulbiect to bligh and rust. Avoid heavy clays. While
there is no absolute timit for growing area, and while the crop inay be parts of the southerrm and western section of the Province, there is a belt of
land in Kent and Elgin called the bean yerfection, and here the larger portion the Canadian bean crop is produogd
Twenty-five bushels per acre, by weight is a good, fair crop, though a ken
County correspondent, advises us the ave age yield in 1906 would have run only
about 12 to 15 bushels, owing to the dry

HENHOUSE-CROPPING-HIRING PASTURE-LUMP JAW. 1. What would you advise to build
henhouse of, for cheapness and durability room enough to hold one hundred hens?
2. I have a hundred acres of land. How many cattle, mostry cows, would you ad grain, hay, and pasture, having a silo 3. Having about thirty acres of land adjoining the town, will it pay to pas.
ture town cows at $\$ 10$ per seas her of cattle, 16 head-or would it $\$ 10$ per season-numand send milk to the cheese factory? 4. Will hump jaw form on the uppe
jaw-a lump about the size spool, hard on the jaw, not like othe
cases of the disease I you kindly give treatmene seen? Would CONSTANT READER. low stone or concrete foundation. Side north inch lumber, batten, and line the
Ialf walls with tar paper
Ine south side north and west walls with tar paper.
Half the south side should be window
space, of which two-thirds should be can-vas-not over one-third glass. On top ot
the plates lay plank or tat he plates lay plank or poles. loosely, and
over this have eighteen inches or tw iect of straw. The house should b
divided into, three or four sections. 2. This question is too indefinite $t_{1}$
answer, as so much depends on the land ani how it is handled. One he handred
acres of rich land, well cultivated, should sustain 50 cattle, four horses, and a herd limited by the capacity of the silo. Some
may be grown for hot
Suggest dry, unhusked fodder. or preserva- Would
acres hay, 25 acres pasture oovts and fooder crops. 3. Tou can make a great deal more
out of the land by pasturing your own
cons and sending milk to the factory; "hether you will derive more profit wil masture some of these cows and supple ment the feed of your own herd by using
soiling crops of clover, peas and oats, millit and corn. There are tempting
poscitilitities in this direction if one re Wuces the labor to a minimum.
4. Inmp jaw is not confined to tho lo-
causes than actinomycosis which ac-
for the formation of excrescences
in heard, so you may possibly be

THE FARMER'S ADVOCATE

## This Washer Must

 Pay for Itself



 Yon sei mate Wasting Machines-the "Yono Junior" Washer




 can be washed by hand, or by any other machine
When I say half the time, I mean half-not a little quicker but twice as quick.
$I$ know it will
w I know it will wash a tub full of very dirty clothes in Six minutes.
I know no other machine ever invented can do that, in less than 12 minutes, without wearing out the clothes.
I'm in the Washing Machine business for Keeps. That's why $I$ $\frac{\mathrm{know}}{\mathrm{isn} \text { 't ta }}$ Washing M achine made that I haven't seen and studied Our "1900 Junior" Washer does the work so easy that a child can
run
it almost as well as a strong woman And, it don't wear the
 washing machines do
It just drives soapy water clear through the threads of the clothes
like a Force Pump might If people only knew how much hard work the "1900 Junior" Washer
anes every week for 10 years- and how much longer their clothes
 So seid It m myself
what I wanted the man to do with the horse. Only I won't wait tor What 1 wander me. III offer to do it first, and I'll make good" the
people to ask mold
offer every offer every time That's how I sold
I will send any reliable person, a .1900 Junnor" IW's free triall I I.ll pay the freight out of my own pocket. And if
mont's
voudn't want the machine after you'veused ita month, Ill take it back
 say it is? How could $\frac{1}{\text { make anything out of of uch a a deal as that if if }}$ adn't the finest thing that ever happened for Washing Clothes-the
uickest, easiest and handsomest Washer on Earth. It will save its


Whole cost in a few months, in Wear and Tear on clothes alone. And wages. If you 50 cents to 75 cents aweel over that in W asherwoman wages. If you keep the machine, after a month's trial. I'll let you pas
for it out of what it saves you. If it saves you 60 cents a week, send me 50 cents a week till payo for. I'll talke that cheerfully, and Yil wait
for my money until the machine itself earns the balance.
 forward otfier, thet you cantrit risk anything on anyhow. I'm willing to
do all the risking myself! Drop me a line today and let me send you





A Bargain.
For sale In saekatohowan320 aores of good land, adapted for Honse plastered, with a stone cellar and oonorete floor ; stabling for 40 head ; poultry-house and workrahop; good water and fuel ; itianted within one mile of G. T. P. kown site, and in a good looality
Btook and Btook and implemonts may be had on premiees. Owner wimhes to move
Southern States. For immediate sale, $\$ 16$ per wore. Terms arranged. Correspondenoe oolicitod. Apply
F. D. Burns, 506 Molntyre Blook

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Wild and improved, in one of the best districts in the West. Write :
J. F. MJDDLEMISS,

Wolseley, Sask

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Personally seleoted in Scotland from the most success'ul breeders. The Scottish
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colored, thick fillies, with strong backs and quarters, and up to good Three are rising three years old, and the renainders are coming two. There is
one particularly one particularly gocd two-year-old by Balmedie Queen's Guard, which won
third at Gargunnock last summer. Several of the onthers third at Gargunnook last summer. Several of the others are by the Royal Gartly horse, The Dean, while others are by Royal Stewart, Casabianca's full
brother, Baron Briton, Rothesay Bay choice lot. Perional inspection invited. ${ }^{\text {cher }}$." And they are an exceptionally

JAMES ELLIOTT, PROPRIETOR,
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These horses did not reach Woodstock in time for Mr. Innes' sale,
hence the private sale.

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one piece in its bowl, so cons anuted take all the cream out of the mllik, and at the same time separate the disease germs be cleaned in one-half the time required for other skimmers, tnere by sequingin labor at least six eays each ycar. If everyone understood the great dif.
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 you are taking cold or have that that teeling or aching in any pat ot tha body
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Same nuanitity of natur son




 The samue docior says ho has found this
preacription
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 cases of coughs, colds, catarth, bronenhitis
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Will sell by publio auction at the
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Registered, Imported and Home-bred

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Of these 25 are young cows, fresh or due to calve soon, or oalves by their side; also 5 yearling heifers and 5 imported bull calves. Several of the reoords, etc., on mequest.
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Under Gover at MYRTLE, C. P. and G. T. Re, on FRIDAY, MARCH 29th, 1907.

THE MYRTLE SALES ASSOCIATION will hold their second annual sale of registered Shorthorns, Clydendales and Yorkshires, comprising 16
Buils from 10 months, to 2 yeans of ase, 15 Fienales Bulis irom 10 months to 2 years of afe, 16 Females Boame, sevemal Imp. and Oanadlan-bowed clyd E Vomkehime and Fillies, ond a fow Canadlan-bred Clyde fiallions The Shorthorns are Scotoh and Sootoh-topped, representing the Weding Gifts,
Miss Ramsdens, Orimson Flowers, Stamfords, Symes, Beauties, Prinoesses, and Livinias. From the leading herds of Ontario. Show stuat will be sold. Terms-Cash, or 6 months on bankable paper, with 6 per cent. per snnum.
Wm. Smith, John Bright, A, Quinn,
President. Trazsurar.
Siopotary.
dAMES BISHOP, Auotlonear
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20 -From 2 to 4 yeams old-20 At OTTAWA, ONTARIO.

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Torme cash, or two mon
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large handles enable you to open the door from either side fou Strong and
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vanized bolt. If your dealer doesn't handle the
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charges and we will send you one
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| Clydesdale <br> Stallions! <br> first-class Hackney. Wm. Colquhoun, Mitchell, Ont |
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Graham \& Renfrew's CLYDESDALES and HACKNEY8


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land and sootland, combining gize and quality and fautiless action. II in want of samething exceptionall
ohoioo, oome and beo me You will
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Per not be disappointed. Prices right. DUGALD ROSS, streeteville, Ont.

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reasoonable and on torms to suit.
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HACKNEYS and CLYDESDALES Established 90 years, and winners at all large ehown in Canada and United States. Best of stook alway on hand for sale. New importation of Royal winner just arrived.

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3
 unexoellod. Bootland oprigewin
imp. and Oanadian bred fllies.


QUESTIONS AND ANSWERS


NASAL GLEET.
Two years ago, my horse had influenza, and ever since he has had a cough and an irrezular discharge from his nostrils.
Sometimes the discharge is whitish, and
connetimes sonetimes darkish, and somatimes par-
takes of the color of the food he has A. M.
Ans.-This is a form of nasal gleet, and
it is doubtiful if a cure can be effected.
 iodide of rotassium, pulverized finely
Mix, and make into 48 powders. Give a powder every night and morning. Repeat
the prescription, and, if you see an imThe prescription, and, if you see an im-
vrovement, repent as oftem as necessary
V.

INAPPETENCE.
Cow calved in Novenber. In January
she refused to eat, and the suply
milk gradually, decreased. She will eat
mine
very littla hay and a feav turnips. Stant
Very little hay and a few turnips. Stand
with nose pootruded. I am giving her
proprietary nedicina.


Ans. - This is a form of indigestion
Yrobally due to disease of the live., It
the liver is disensed she will tho liver is diseased, she will not re
cover. Purge her with 1 lb. Epsom
s.alts and ith 2 drams each of nux vomica, ginger,
gentinn and bicarbonate of soda, three times daily. Keep her strength up until she will eat by drenching her wit, boile
flaxseed.

OEDEMA-REGISTRATION

1. Yearing cali's jaws and lower lip
are swollen to about an inch thick, and
hard. Another calf is going the same
way. Thoir tongues are alll right.
CTosses, but I do not know whether she
will rezister.
$\begin{array}{ll}\text { W. B. G. }\end{array}$
Ans.-1. Bathe long and often with hot
water, and after bathing rub with a
liniment, conposed of 1 dram each,
biniodide of mercury and iodide of po
ash, to 8 ozs. water. Give 10 grains
iodide of potash night and morning for
${ }^{2}$ 2. If she has four crosses of registered
sires she will repistor. Write th
Accountant, Live-stock Records, Depart
ment Agriculture, Ottawa, giving the ex
ended pedigree, and he will let you kno
LYMPHANGITIS
Clyde mare, due to foal May 1st, hai they would break out in fresh places. nonth ago she suffered from lymphangitis in one hind leg. My veterinaria
1reated her, and tho soreness disapeare The es her, and thr soreness disappeared.
The swelling disappears whe? she is given eight or nine milts' exercise, but returns
when she stands when she stands. I am feeding hay on"e
daily, and straw tuice daily, with mash and half a cupful raw oil a buicr
daily, and give her 3 oil daily. My veterinarian told me to give
$\qquad$
$\qquad$

 Auotlon Baten of
 Byealal salos of IMoroumbred Btook conaluove

 Bawden \& IMCDonal

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 12 Mydes and 2 Haokneys




Largest 8 tud in the World of Ameriean-bred
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QUESTIONS AND ANSWERS. Veterinary.

PARTIAL PARALYSIS Seven-year-old dog that has been a guo one, has become entirely useless. He has
partially lost the power of his lers when attempting to run, often falls ou
his head. Ans.-This is partial W. A. M. Ans.-This is partial paralysis, and it
is doubtful if he will recover. him with 2 drams jalap and $4 \underset{\text { grains }}{\text { Purg }}$ calomel. Follow up with 5 grains o
nux vomica aux vomica, three times daily. If this
causes a twitching of the causes a
the dose

INDIGESTION
Five days after calving, cow ceased eat
ing. I gave her a quart of oil week gave her a po ind of salts, but she
$\begin{array}{ll}\text { is not much better } & \text { I. S. }\end{array}$ Ans.-Purge her with
salts and 1 ounce ginger.
with with 2 drams each of nux vomica, gen-
tian and ginger and 1 dram sulphate of iron, three times daily. Feed often in small quantities.

## Miscellaneous.

LARGEST CITIES Please world have me which three cities A CONSTANT READER. geographies in use in the schools, tatest population of use in the schools, the the world is as follows : London, Eng 4,536,063; New York, 3,437,202 : Paris WHAT BREED OF SHEEP? 1. What breed on level country, sucheep as the central par of Essex County-well drained? Would
Dorset Horned sheep do well ? Would be too many to keep on one hundred 2. What depths would you advise put-
ting tile on heavy clay loam, practivally Ans.-1. Do sets should do well on such
land; so should some of the heavier breeds; such as Lincolns or Oxford Downs. shepp mi ht be kept on a 100 -acre 100 tock, on an a halif the number number of other 2. The dreper the drains, the further
they will draw, unless th. subsoil is hard Wall. We would advise three feet

MARE NOT COMING IN HEAT 1. I have a mare, about 12 years old
that I would like to breed, but all las summer I never saw her in season but
once, and then it was scarcely discernible, working steady; in good condition. How 2. I have a field in rather poor condi-
ion. have it that I I would like to get rid of. Have not time to cultivate it. Grew oats last
year. Would peas do well, and smother
out the grass so that and seed to so that I could sow wheat
if peas would be best, what kind


The only medium which conveys weekly to the farmers of Camada, the advertlsen's place of busl-

that an claimed by some stock
 ouldition. On this theory it might be well
to ruduce the tuare somewhat the ally fred hor up, taking care not to work
her too heavily. A laxative diet is tid-
isable
$\qquad$ re choking out grass, and at the same onden Vine seems to be the most popuDrown nea, called Farly Britain, aithough nced the Experimental Deprartment of co-rverative en has given good results in
experiments throughout On-
(ario. Sow two tuoshels per acre. If


## When Will Death Come?

```
No one knowe.
Manil will come no one dispation
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You oen goen one o the best pollition obvainable
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Put Good Grazers on Your Grass

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SHORTHORNS

CLYDESDALES

Two mares 5 years old, one an extra good one
nnd $A$ palr of
eldining 4 years 0 old. JAS. MOARTHUR, Gobles, Ont

 D. Hillic starre P. O., Ont. Maple Hill Stock Farm soith shorinothorning
 Shopthorns Sampordid Mal 1 Iob







quEstions and answers. Veterinary
dislocation of patella. Heavy mare, three years old, has
feveral titurs shown a stifness in hind legs, sometill.c.c one. and sometimes the other. She dravs the leg, being unable to lift it, or ftch it forward. After
 Ans.-This is dislocation of the patella,
Repeated $\begin{aligned} & \text { blistering is the treatment. }\end{aligned}$


UNTHRIFTY COW-ABORTION. 1. Cow that eats and milks well is
stif in hind quarters, and has failed in stif in hind quarters, and has failed is
fesh. I do not think she is in calf. 2. Will a cow that has been treated with carbolic acid atter aborting be liable
to infect other cows Ans. -1 . Purge her with $1 \$$ lbs. Epsom salts and 2 ounces ginger. Follow up
with 2 drams
each of nux vomica,
gen-
 allow her to go dry, and endeavor to it 2. If she is affected with infectious others so song as there is any discharge
from hen enantol
STOMACH STAGGERS
Mare is in the habit of acting in the
following manner: Her ears bogin to
 throws head $\begin{aligned} & \text { around towards flank, } \\ & \text { taggers, and would fall if left alone } \\ & \text { sta }\end{aligned}$ (a) fumps backwards, then forwards, etc. The attack usually lasts about hali a minute,
and she may have two or three attacks and she may have two or three attacks
within ten minutes, and is then liable to go for several days without another. Ans.-This is stofmach staggers. Draw fu quarts blood from the jugular Drain;
purge with 8 drams aloes and 2 drams kinger, and follow up with 1 dram Iodide
if potash night and morning for obout ten days. Feed lishtly. In many catese
reatment gives only temporary relief.
bog Spavin

1. Yeartung colt has a soft lump on
 2. What will make the hair grow on a

Ans. -1 . This is a bog spavin, and in
most cases lameness and stifineses can be cured. Get the following blister: : Two
curne drams each biniodidde of mercury and
 eannot bite them. Rub well days, and on the third day wash off and apply ameet oil. Turn in a box stall
now, and oil When the scale comes off, tie up and blister again. It necessary, put a third
plaster on in a month aater the acond. 2. When the hair roots are destroyed, nothing will make the hair grow. When
the roots are not destroyed, the dally apthe roots are not destroyed, the dally ap-
phication of
sweet oil encourages the plication
growth.

SPECIFIC OPHTHALMIA.
Hirse's eyes get sore every month
six weeks. scum over so that he hearcely see, and then clear of a can scarcely see, and then clear of again,
and he can see fairly well, until the
next attack.
Ans. - This is called specific
J. A. M.
or periodic
Ans.-This is called specifc or periodic
ophthalniai.
This
is disease, and the attacks cannot be prevented with any degree of certainty. The
anministration of 20 gren administration of 20 grains of the di-
sulphate of quinime, three times daily,
 tends to prevent the chsease. Treatment
for an attack consists in keeping patient in a comfortable, partially darkened box stall, feeding lightly, bathing the eyes,
three times daill, with hot water, and, three inmes daill, with hot water, and,
atter bathing, putting a few drops of the
followin of zinc, 10 trion into each eye: Sulphat
ofrains fulid extract of bella
 ounces. In all probability, a cataract
will soon form in each eye. and the horse
will be permanently blind.
v.

## Does Your FOOD

## Digest Well ?

Whon the food in imporfooty digetitat Mhe foily gonofith not dairid tom it by
 boov yit may be Thume tho dspepptio ofteon Soomen thin, waak and debiittocti, enorzy

品 hadigation some of tho (ollowing epup

 The grat point iot to ouro it, to goo boolk

## BURDOCK <br> BLOOD BITTERS

us oonstantly offeoting oures of dyopopais
booause it acts in a natural beoause it acts in a natural yot offeotive
way apon all the organs involved in the Way upon all the organe invoived in the procurities and making easy the worte of ligestion and assimilation.
Mr. R. G. Harvey, Ameliasburg, Ont. pppsia for reveral years and after nuing
three bottles of Burdock Blood Bittora Was vompletely cured. I cannot praie B.B. B. enough for what it has done for
me. I have not had a sign of dyuperais innoe" " a matiture for B.B. Do not mooopt a subetitute for
T. E. ROBSON,

## Llve-stook Auctloneer

2 BECHER BT., LONDON, ONT





 Ploasant Valley Shorthorns


OEO. Amos \& 8 OM, In olitiat sin. \& P.O., C.P.R. MIPE GROVE SHOATHORIS

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## Maple Lodge Stock Farm

 1854-1902.Am now offering a grand lot of young shorthorn sulls, several a few extra good heifers.

## A. W. SMITH, MAPLE LODGE, ONT. ETMILL HERD of high-olaes

## SHORTHORNE



 orte



## Belmar Parc Shorthorns


#### Abstract

WE think we have as great a lot of young show animals as has ever been on one farm in Canada. Our herd is large, the individuals are choice and of the richest Scotch breeding, and our prices are moderate. 15 young bulls. 25 beifers under three years. A splendid group of breeding and show matrons Mostly in calf to the champion Marigold Sailor $=53258=$ and the prizewinning Nonpareil Archer (imp.) $=45202=$ Pembroke is on the main line of the C. P. R arrive Pembroke 12.05 p . m., see the herd, and arrive Toronto next morning at 7 . 20 We prefer you to see the cattle, but if you can't spare the time we take special pride


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Right in overy was. Ho is a heod Elora station, G.t.R. \& C.P.R. $\qquad$ SALEM, ONTARIO.


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 SHORTHORN BULLS8 just past two years old; 15 just over one year old: The beest lot we ever had to offier in individuality and breeding.
and prices are right. Catalogue.
John Clanoy,
Clanoy,

L \& SON,
AT "MAPLE SHADE" Our young bulls are the best that our herd has ever produced. We can
furnish Cruickshank bulls of high quality to furnish Cruickshank bulls of high quality to head the best herds, and
some that should produce the best prime steers. We have a bull
cotalogue Send some that should produc
catalogue. Sond for one.
NOHN DRYDEN \& BON

${ }^{1}$<br>Brooklln, Ont.


ueenston Helghts SHORTHORNS

## Pure Scotch Shorthorns


W. G. Pettit \& Bons, Freeman, Ont.
HOLLYMUUMI SHORTHORM:
 25 HEA Anything for eneo.
young bulle. Broedin $\mathrm{y}=$ W. J. Thompson, Mitchell P. O. \& Sta Clover Iea Stock Farm SCOTCH SHORTHORNS
 Ripley
Ration, G. T. R. STRUAN SHOOTTOORNS

## 5

 Arnorior. N. S. Ropertson, ontario 12 SHORTHORN
$\qquad$
J. T. GIBSON, Denfield, Ont

Shorthorns and Clydesdales
1 am now offering 6 young bulls from 8 to
20 months old, all Scotch bred. two of them from extra good milking families,
and a few registered fillies of goon quality. dOHN MILLER, Brousham, Ont.


MARCH 21,1907
QUESTIONS AND ANSWERS.
$\square$
the bottom or cause of ensilage spoiling in
tuilt of stone and
cenent
silage was placed on the earth floor, and

| bottom. |
| :--- |
| W. M. L. |

water and juice settles to the bottom,
und seems to account for an inferior qual-
ity of feed in the last two or three feet. Prof. Grisdale, of Ottawa, says drainage
from the bottom of the silo will prevent this, and others report the same. In a
silo under the ground, this would be PIGS WHEEZING Can you give me a cure for young pigs
that are wheezing and coughing, but die In good condition? They are on the sow kept in a bank-bed on mixed grain, and for pork so affected? ing of grain, without sufficient liberal feedThe lungs and heart become clogged with A basement stable to circulate freegiven exercise in the bigs, unlestess they are are
then there is dan daily, and
of ther coming out only coming out of a warm place. The for the them is to provide possible, feed laxative food, as bran the sunshine, if may help to potle sulphur in their food figs so affected. 1. COST AND CAPACITY. 1. I•

## OU must not look a gift horse in the mouth

If you do you are apt to discover some disappointing features.
But what can you expect when you get the horse so cheap?

$$
\begin{aligned}
& \text { Same argument is applicable to cheap fences. You must not } \\
& \text { expect them to give best }
\end{aligned}
$$



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B. H. BULL \& SON, Brampton, Ont.


## ANNANDALE

 FINE STOCK PARM tillsoniung, ont.Premier sire, Prince Posoh Calamity, whose dam and sire's dam average and 26 lbm , butter in 7 T dank,
No stock for sale at present.
GEO. RICE. Tillisonburg. Ont.

## AW HOLSTEIN BULLS

 arow, witio me: imperial Holsteins-An Advanoed Becimery
 In dam from the U. s . 66 GLIEAARCHY" HOLSIMMIS





 to calve in sijphing. Yoifors soming in wo the Boletolno in Bros, Eyn. Ont Holstelns and Yomkshinee
 Greenwood Holsteins and Yorkshires For nlo: A Aon rlahifbrea bulle tromo oue to I all asem. Yorrohires of eilther tho. Grove Will Holsteins Hord oong and eva.

 Evergreen Farm Holsteins $\frac{1 \text { is heded by }}{\text { Prinneeded }}$ Dozol whioh weare offering for nelo ? ilrod Corit coumg bulth har for cervieo. from Rooord
 "IHE MAPLES" HOLSTEIN HER
 five months old for sele Bulle ives from ono to


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## STRENGTI

 A cream separator that is worth buying must give long service. To do that it must be built strong and the construc. fion must be simple. To have simple construction in a separator you must have a Sharples Tubular. There is no other cream separator made that will perform its work so well for so long a Itime as the Tubular because there ismother separator so strongly built, or so simple in construction.

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get all the cream, have low supply can are easy to run, easy to clean, because there is only one little piece in the bow nachine oils itself. It combines Vtil. ity, Simplicity and Durability. A glance at the pie-plate construction of most separators will give you a fair idea of what we mean by simple construction" and "strength.". For full information about the'Sharples T
bular write for booklet E. 193


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i. R. NESB, UR., HOWICK, QUEı, P.O. AND STATION

MY SHROPSHIIES WOM THE FLOGK PAIIE AT TORONTO And have imported and home-bred RAMB and EWES for sale that are of the well. Prices always reasonable. COTSWOLDS and SHORTHORNS as

RECORD OF MERIT HOLSTEINS


Ridgedale Farm Holsteins ${ }_{i}$ ing :- Prest offer ling bull, also six bull oalves, froms: one to year
mont
mont olat. sired by Prince Pauline De Kol bth
 Bronvood Stock Farm-Moiotoine and


-ILTON ST
ent ofering: some Toumworthe Proe
 Ingleside Ayrshires won more prizes in 1900

Glenhurst Ayrshires Oide teen bablishe


 old. and from dam that gave last year mic
 SPRINGBROOK AYRSHIRES eave an sverage of t.000 be. of milk, teating s.9


Springhill Ayrshires


 Robt. Hunter \& Sons, Maxville, Ont Ayrshimes a prizowinume bill an to and

## W. W, CHAPMAM,

Eaortary, of tho Mational shoos
Coortin' or tho Kant or Rommo and hato goorotary of the Bothation

 Adaraulineo anizured.
 Cableo-8hoopoote, London.

 MeDougal Stonte for the Orimina Mc:Dougail \% Sheep Dip \& Cattle Dressing


OUESTIONS AND ANSWERE Miscellaneous

CEMENT CISTERN 1. Kindly inform me how best to
build a cistern at the end of a bank barn. Should there be a stone wall built,
and plastered inside with cement ? $\mathbb{I}$ so is mortar made by mixing cement and sand any better than lime and sand for building the stone wall? Would a concrete wall, plastered inside, be any bet-
ter? I have plenty of stones, but would have to draw gravel about six miles. 2. Where is the Clipper fanning mil made ?
Ans.-1. In your case, we think E. E.
mithing Ans. -1 . In your case, we think nothing
better could be done than to build a stone wall inside, using ordinary lime mortar, and plaster heavily with cement
mortar. Small mortar. Small, egr-shaped cisterns are
often successfully
plastered with cement directly on the clay.
2. We do not know. The manufac 2. We do not know.
turers should advertise

ALFALFA OR LUCERNE February, last, Reader in his question 3 refers to lucerne. Answering his query, 3 reters to lucerne. Answering his query,
the term alfalfa is used twice. On con-
sulting Chambers. sulting Chambers' directory, printed in
Edinburgh, I cannot find such a word as Edinburgh, I cannot find such a word as
allalfa, but lucerne presents itself without trouble. Why, then, may I ask, use a term or word not in our vocabulary?
I love to call a spade a spade. P. S.-Professor Hutt uses the name
lucerne; I fancy he is correct. Ans.-Alfalfa and lucerne are two names for the same thing. The former is prob-
ably Arabic in origin, while "lucerne " is supposed to have been give the plant from the canton lucerne in Switzerland.
Previous to the introduction of the plant Previous to the introduction of the plant
from Chili into California, about the
middle of the last century, it was known middle of the last century, it was known
among us as lucerne, but the name alfal-
fa has followed the crop into Spain and fa has followed the crop into Spain and
South America, thence into United States and Canada, and now it seems likely to
supplant the French name entirely. Th majority of agriculturists to-day have
adopted the name alfalfa, and for this reason we prefer that out
use this term henceforth.

## DEVISE OF A FARM

 pay an annuity to his mother, and cerpay shares to A's other children. One provision of will is B is not to sell farmor any part thereof during the life of his mother.

1. Can B be stopped cutting timber
$\qquad$
$\qquad$


## MOTHER'S GRATITUDE TO ZAM-BUK.

IT CURED HER BOY OF PAINFUL SORES.
Nothing is more unpleasant to the eye and more painful to thy sufferer than
boils and ulcers. At this period of then year many adults suffer acutely from
these painful outbreaks hese painful outbreaks. When boils, ficers, etc., occur on children, it is piti-
ful to see the little ones suffer. Mrs. E. Holmes, of 30 Hamilton, is grateful for what ZamBuk did for her little boy when in this
pitiful plight. She says: . He sum from spring eruptions, and then suffered broke out on his neck. I tried bloodpurifying renedies, but nothing seémed to
do him the desired do him the desired good. The boils got
worse, and I could uot send him school. We tried a sample send him to and it did him a little good, so 1 bought so-cent box. The result was really had begun. Inside a week's time, the boils had begun to dry up, and in a very short
time indeed every one of them was
healed." healed."
Zam-Buk is a sure cure also for eczema, scalp sores, ringworm, poisoned wounds,
chronic utcers, chapped hands, sores, cracks, festering sores, eruptions and pustules due to blood poison, etc. It
stops bleeding stops bleeding and cures piles, fistula, etc.
Is antiseptic Is antiseptic, an excellent "first aid."
Every home and farmstead should its box of Zam-Buk. All druggists have stores at 50 cents a box, or from Zam-
Buk Buk Co., Toronto, for prioe. 6 boxes for
$\$ 2.50$. Send 1c. stamp for trial box.
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lent breeding and ideal bacon type. This her Mon sweepstakes at Toronto and London, hace-6 Among our winnings at World's Fair, St. Lotis
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 boars fit for service, alfo young pigs now on
hand All stook khipped in comfor table crates. Express prepaid ano satisfaction guaranteed. CRANDALL BROS., Cherry Yalley, Ont Newcastle Herd of Tamworths and Shorthorns
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sows sired by Col will


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Sends the Current to the Prostate Gland，the Develops and Expands Weak Organs an Expands Losses．No Gase of thers ness Can Resist it．FRDE WITH BELTS FOR WEAK MEN．

No man should be weak，no man should suffer the loss of that vital element which Tenders life worth living．No man should allow himself to become less a man than nature intended um；
no man should suffer for the mistakes of his youth，when there is at hand a certain cure fore， no man should sufer
weakness． Most of the pains，most of the weakness of stomach，heart，brain and nerves from which men suffer，are due to an early loss of nature＇s reserve power，through mistakes of youth．You need not
suffer for this．You can be restored．The very element which you have lost you can get back， suffer for this．You can be restored．The very
and you may be as hap py as any man that lives．
Easy to Wear．Cures While You Sleep．Never Fails． Cures，Nervous and Vital Weakness，Enlarged and Inflamed Prostate Gland，Lost Memory，Loss
of Strengin，Weak back and Kidney Trouble，Rheumatic Pains in Back；Hips，Shoulders and Chest，Lumbago，Scaatica，Torpid Liver，Indigestion and Dyspopsia．Back，Hips，Shoulders and My success is not limited to any particular trouble，any organ of the body，or any part that lacks the necessary vitality to perform its natural function，can be restored by my method．It
gives life to all weak paris，strengthens the kidneys so as to enable them to filter all the impuri－ ules that are in tae bivod．By a few applications the fluid of life circulates through the entire sys－
tem, rich and red and warm.
One of the worla's greatest sclentists, whom all the New York papers eulogize as the man of the hour，in a series of lectures at all the great institutes gives his experience in delving into the mystery which surround the organ of life．He explains the vilal processes，and after ten years of thing is due to electricity．Now what this great man claims is the same as I have been preaching to the public for the last twenty years．I did not discover it，it has been my belief，and
I can cite gou thousands of cases of men from seventy－five to ninety who have returned to the hard labor of their youth with a vim，after having worn my a pliance for thrce months． It has bualt up my constitution in every way，My stomach was bad，but it bothers me no more，I／eat It has built up my constitution in every way My stomach was bad，but it bothers me no more，I eat
well，and my digestion 18 Ierfect．I feel truly thankful for the benefits received，and do not hesitate to endorse your remedy for such troubles as I had．＂－WM．A．ARMSTRONG，411 Magdalen Street，Point sh in ploasea to be able to tell you that I have derived great benefit from your Electric Belt．When I startod to wear it I was very much run down and felt weak，but after using it for three months I must socelvod from your troatment．＂－R．L．HARRIS，Trenton，Ont． to put it on aganot turn in bed withcut catching hold of something．The first night I had it on tit was a little bettor，and I ubed it as directed by you．This，I think，is part of the cure．I do not state these lines
as a person who doe not know what he is talking about．I am not built that way．＂－ROBT．CAMEIRON， Port
Dr．MoLaugniln，＝Mear Sir：It gives me great pleasure to tell you that the Electric Belt I purchased

 every way，and I thank you very much fo
trulth WM．J．PEARAON．Flaming Sank
I don＇t want your money if I can＇t cure you；I don＇t want any man to buy my Belt on speculation；I take all the chances．I can cite you cases right in our city where men have spent thousands of dollars，and they will tell you that I have given them more relief in one night＇s use of
my Belt than all the drugs they had ever taken．I am not advertising that I give my Belt away．I am wllling to cure you before you pay me，All
I ask is that you give me reasonable security．You may then use the Belt at my risk and

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lines and true to type. Everything guaranteed as repres nted Long-distance 'phone. MORGAN, Milligan P. O., Co. of York.


QUESTIONS AND ANSWERS Miscellaneous.

ARRANGING FOR FISH-SLIDE How should I proceed to compel a mil owner to insert a tish-slide in a dam
over a stream? over a stream?
Ontario. Ans.-Lay the matter before the Fish Inspector of your locality

HENS EATING EGGS.
Give a preventive for hens eating eggs. which will eat them when they get a chance.
Ans.-Prevention is better than cure. It
is hard to brak a hen away from the habit when she has once acyuired it.
Much may be done, however, by using dark nests in which the hens cannot scratch. Place the row of nests in the having them open to the pen, have a hens thus entering the nests from the back, while the eggs are gathered by
trap-doors in the front. The nests should be roomy enough to leave no danger of
crushing the eggs. If too dark, an auger hole in the trap will admit sufficient light, Lack of lime often induces the egt-eating
habit, but the most common cause is th aste of an egg accidentally broken. EGG-EATING HENS-SQUEALING PIG.

1. I have about 25 hens. They lay 6 about three quarts of wheat daily and
lots of grit, also other feed suitable to fowls. As soon as one lays an egg, they all run and ear the eggs; they even le
their wheat and go ror the eggs.
2 Hove aid ther feed, even corn or pea meal; it contains no bitter seeds, still she refuses, and
stands and squeals for somethin, stands and squeals for somethin $y$ to eat.
A SUBSCRIBER. Ans.-1. See answer to I. P. in this is-
sue. 2. She may have indicestion. With-
hold all feed, except a little skim milk hold all feed, except a little skim milk
and middlings. Give her a few sugar and middlings. Give her a few sugar
!,eets, mangels or boiled potatoes, and a
mixture of salt, ashes and charcoal in a box in her ven. Keep dry and comfort-
able. If she comes to her feed, increase able. If she comes to her reed, increase
her ration cautiously, never giving her
more than she will clean up from her

ALFALFA AND ARTICHOKES 1 have " piece of land, about three
cres, quite hilly, high. dry, clay loam. I have been thinhin: of fitting it for a
hog pasture. 1 intend summer-fallowing the coming summer, then seed to lucerne,
and reserving a portion to be planted and ressrving a p,rtion to be planted
with artichokes for autumn foraging. With artichokes for autumn foraging
Wouid this be a wise method to adopt
Does lucerne make good hog pasture Does it thrive well on land such as de
scribed? What time of year should it
be sown? Should it te sown an the open ground alone, or with a nurse crop
IIow much semed shald te wish on on
acre? Please pive foll particulars, with

> MILBURN'S HEART NERVEP PILLS for WEAK PEOPLE

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