

A Few of the Reasons Why Farmers Fail. In these days when rigid economy and an understanding of the work is necessarv to insure success the great class of tillers of the soil fail to get either pleasure or profit from farming. Every neighbor hood, whether good or bad, has a few farmers who are always in debt, always struggling to meet their obligations when due, and unable to mak necessary improvements. In fact, their lives are made miserable by what the she is the trouble result of
misfortune. But misfortune or mismanagement? It may be the former, but we cannot help thinking the latter has much more to do with it. We all know of numerous instances where farmers, often laboring under a disadvantage, have succeeded in raising and educating large families, besides laying by a modest sum for old age.
Many failures that we see cannnot be attributed to lack of industry, as many unsuccessful farmers
work late and early, and seldom, if ever, take a work late and early, and seld be said in almost all
holiday. It can truthfully instances that failure is caused by the head not guiding the hands. The work is not done systematically as in other business, but managed haphazard, trusting to luck. The farm and markets are not studied; on hilly farms where sheep would do well, this animal is never seen, and grainita grown at a disadvantage and loss. day mistakes may he poine line followed. resum $\$ 21$ or $\$ \$ 30$ worth of draining put in a flat field
often would return the whole outlay, and a joy to the owner, in two or three years.

Undertaking to do too much is a common canse of failure. Coo many attempt more than can be properly done, and when hindered by bad weather the work is piled up and not done in season, which always becomes much worse to do and the result
less well accomplished. Short crops are the less well accomplished. purse. Again, the farmer who attempts too much work neglects the small sources of income and comfort which a well-kept garden and poultryyard can produce. A very common mistake is the injudicious management of the stock. The feeding and breeding are very carelessly done. Which with a caution and judgment wo often realized. The very different from to complain that his business is not remunerative when he leaves his stock, especially the milking cows. exposed to the inclemencies of winter weather. The farmer should have a conscience that would not allow him to rest when he knows that his stock is not
comfortable. A wise management in feeding is of comfortable. A wise management in feeding is of
great importance. To this end it is necessary great importance. To this of the constituent to understand somets and their office in the system. He will see then the folly of stuffing growing colts, which are raised for muscle and endurance, with corn or other fat-producing foods, and not allow
cattle to lose half the flesh they have gained in summer by insufficient food and shelter in winter We will point to one more of the causes of
failure, namely, allowing the soil to become impoverished. An intelligent rotation is one of th best methods of getting all that can be produced together with a stock should be managed so as to
disposal. The stor save all the manure, both liquill and solid, using sace as an absorbent, as well as to make at
straw
and so as to get the greatest profit from, it. No sourc of fertility should be neglected. The grasiand clover acreage and anceage under plow decreased. in a increased, and acreage under por decreased. in and be used to advantage on glass or coner as well
grain. so an to have $t w o n s ~ b e n e f i t t e d ~ t h e r e h y . ~$ and one of them a cleansing and removating crop. Many more catuses might be cited. hut these are directly within the farmer cown comtrol, which of course. maty not be said of all circmomances that
militate agatint the farmers succes. Wh mot neglect the locale exhititions the combty
and townhip, fall faits. They are great incentives and

Messrs. Devitt \& Sons' Clydesdales.
The group of draft horses which are portrayed on the front page of this issue are representatives of the stud of Clydesdale horses owned by Messrs.
Isaac Devitt \& Sons, Floradale, Ont., which is situIsaac Devitt \& Sons, Floradale, Ont, which is situ-
ated about four miles from Elmira, the terminus of a branch of the G.T. R., and is in one of the most a branch of the G.T. R., and is in one of county of Waterloo, where fine horses, choice cattle and improved stock of all descriptions have for many years been in demand.
The stallion in the foreground of the illustration is Douglas McPherson, sired by the Macgregor horse Macpherson, always considered to be among the best breeding horses of his day in Scotland Douglas McPherson is a massively built horse, with a nicely turned top and equally good at the ground, as he stands upon the best of wearing feet. He has had the honor of winning in the best company After carrying first prize at local shows and
Toronto Industrial as a foal he was not again exToronto Industrial as a foal he was not again ex which time he won first at a number of shows in the adjoining counties, also wioning first in his class as a three-year-old at the Industrial, Toronto His dam, Bell, who appears to the right in the illustration, was sired by the Darnley horse, Good Hope, her dam being Mall (6267), by Lochiel ( 450 ) Bell is not only a well-bred, hut is a wonderfully good mare. She is buitt on the largest scales ond of the best mares now breeding in Ontario, which is therne out by the very successful show yard career she has gone through, never having taken second place except once in Scotland, at which time she was beaten by that noted mare Moss Rose. Since coming to Canada she won first in a team in 1888 also winning the Clydesdale Association prize for the best draft mare any breed or age.
won first as a mare with foal by her sid
The next standing to the left is Isabella ( 451 ). She is a Canadian-bred mare, and belongs to thiz admirable class that has furnished so mas sired by winners at our shows. Isabella was sired by Ontario Chief and has six impcrted crosses, but as register in the Canadian Draft Horse Stud Book. This mare won second in her class in 1889 at the Toronto Industriat, and again won second as a brood mare at the same show in 1892, and has also beaten a number of the best imported mares at local shows.
The yearling filly in the background was sired by Douglas Mc Pherson, and is one of a number of good ones sired by this horse. Her dame Mac Mac. Arthur, sired the No most promising Arthur, and is decidedly one of that Douglas McPherson may be accounted a great success in the stud, which we would expect by analyzing his stud, Which
blood lines.
There are at present thirteen (lydesdales in the stud, and it has evidently been the aim of the proprietors to breed for size, in which particular all their horses excel, they very properly contending that this is the most necessary qualification in the araft horse: and whr hey have not lost sight of pre-eminentils as beat of formand quality, while, wh essentias as feet and clean, dense bone, and other useful characteristics, have always received due consideration. The Messrs. Devitt have paiderery attention to breeding in popular lines, and have spared neither trouble nor expense in placing the most desirathe crossestipone eroost mares. In scamning the pedigrees we fird a host of familiar names of the most noted prize-winning tallions in past years, and such gooremington, Hac lithur. Macclay, and others of this class, bave Wac Mrthur. Nace

1 :matl herd of Herefords has lately been added To the live stock on the farm, and although these are not pushed to the front by the proprietors, we as whatever this firm undertakes to do they do

Many farmereport finding fish oil, with a few drop of cantolic acid add
rementy for he horn fly.
$2=4=4$
2-2

THE FARMER'S ADVOCATE

## Frauds in Seed Grain

Farmers should be careful that the seedsmen and others from whom they purchase grain are thoroughly reliable. During the past few years we have hear have been imposed upon by sales where who sold them common varieties, represent ing such to be a new and highly praised sort. In other words, the salesman substituted one sort for another. The farmer ordered a high-priced kind, the salesman supplied him an old and cheap variety, knowing it to be such. Not long ago Mr Frank Shore ordered a high price therefor In a certain honse, paived what was represented to be the sort he ordered, but what was in reality an entirely different kind, not a new wheat nor a highpriced one, but simply a substitute which was represented to be the high-priced variety ordered. Mr. Shore, being an expert, detected the fraud at
once, but he failed to get the sort ordered nor was once, but he failed to get the sort orderethich came his money returned. Ander our notice was that of Mr. G. W. Monk, M. under our notice was enh Carleton Co., who ordered three or four promising wheats. All were sown in one field. The next year one of our staff visited his farm and y mixed. We believe this dishonorable method of doing business is practised to a considerable extent, not alone with fall wheats, but more largely with other grains and seeds. Farmers are thus victimized every year. If his treachery difference in the value of the sort ordered and the one sent, the loss to the farmer would not be so great, but the trouble does not end there. The value of the test which the buyer wished to conduct is entirely lost, and if an undesirable sort was substituted, the crop is lost also. A great many farmers in Ontario during the last two or three year's have lost thei them for the true sort. The crops thus lost varied in area from a few acres up to twenty or more. Not only did these men lose two crops, but theil land was filled with the seeds of a bearing on this point have just been received by
Dear Sirs, -I do not know of any new varietie are duped by seedsmen and sharpers placing old varieties on the market under assumed names. The time has come when a means to prevent it should he sought for. Il think your plan a desirable one
of publishing all such information as you can ob tain from reliable source

Dear Sirs,- Very little fall wheat is sown and Dear Sirs, - Very little fall wheat is sown and
of orinity. The few patches that are sown promise fairly well. I an beginning to think that some of our seedsmen ar
not doing the right thing in other seeds, as I orde not doing the right thing in ot farmers and find ol a great des sent under new names, some of them
varieties
worthless. I think if Patrons take this matter up worthless. I think if Patrons take tam mlad to se they can force jothy of the Patrons, and if they
you speak favorably
only wield it well, this movement will be one of their best weapons for defence. Hay is a
here. Other crops look fair all through.

James H. Gours very truly, Cull, Before ordering new sorts grain or othe seeds the buyer now it at sight when this is po variety, so as to now sort ordered and accept nu
sible. Demand the sum sible. Dema have a number of reliable seedsmen in Canada, whose description of varieties can be re
lied upon. In all cases, deal with a reliable house and remember the men who deat cannot and wall not compete in price with the sharpers who make men who deal inly in
ing good goods well, cleaned, self as cheap ind
who buy and sell only cheap and inferiors. At the reguest of a reader, we shall be pleased to care
fully describe any sort of sced grain at any time
 A first-class turnip harvester wan be made b







## Toronto Industrial Fair

Toronto's Great Industrial Exhibition, Septem-
ber 4 th to 16 th, is universally conceded to be the bereatest of all annual fairs on the continent. To ghe farmer, stock breeder, manufacturer and
artisan of the Dominion, what great possibilities artisan of the Dominion, what great possibilities
have been developed through the medum of this have been developed through the medrum of this
great annual fair-what hitherto undreamed of
resources have resources have presented themselves! Few realize the immense value and importance of these annua
events to the Province and Canada at large. The groumds, containing over one hundred acres, are most beautifully situated on the shore of Laks
Ontario, on the western outskints of the city. The Ontario, on the western outskirts or the cicmplete
Exhibition buildingsare commodious and comple Ex every respect. The near presence of the waters
of the lake adds a charm to the surroundings. From almost every point of view some glimpse is gained of this wide, restful expanse of unsalted sea this year in making vast improvements. Neu and new buildings erected on the latest and most improved plans. The new horse stables and cattle sheds are models of comfort and perfect arrangestalls; a passageway twenty feet wide extend through the centre of the sheds under a covered archway, which connects the buildings, and thus
enables visitors to view the animals without nables visitors to view the animals without
discomfort even in inclement weather. These discomfort even in inclement weather. These
stables will also be lighted with electric light.
Improved changes have also been male in the Improved changes have also been male in the carriage hall, agricultural building, dairy and
apiary building, and in fact all have received du apiary building, and in fact all have received due
attention. The grandstand, seven hundred feet ip
length is the finest to be found any where in this or length, is the finest to be found any where in this or
any other country. The approach to the stand has any other country. The approach to the stand has
been improved, the walks inside and out are laid with granolithic pavement, while the lawns thereabout have been re-sodded and present a most
refreshing appearance. Many important features refreshing appearance. Many important features
have been introduced by the management during have past few weeks. Chief among these has been
the the provision of seats placed throughout the
grounds for those who become tired and worn out by sightseeing. The supplying of electric light to all parts of the grounds is another mater for congratulation. The entries this year are large
than ever before, and everything pointstothegrand est and most elaborate display of the wonderfu resources of the Dominion of Canada that has ever peen seen. The electrical exhbit will display apparatus or cooking and the heating of house used continuouslv without being placed upon the
stove.
The horse and cattle exhibit will be larger and iner than ever, a result largely due to the increased
and improved stabling accommodation. The prize ist for stock has heen extended in several classes
and a new and full class made for standard-bred horses. The cheese exhibit will eclipse all previous displays. The prominence and excellence accorded to Canada's hig cheese at the World's Fair has
tended to awaken a lively interest in this special product amongst the cheese-makers throughout The Dominion. There are 300 entries, representing
900 "cheese of 10 pounds each equal to eighteen tons M0 "cheese of to pounds each, equal to eighteen tons
of solid cheese. These entries are from every of sold cheese. These entries are from every
yuarter of the Dominion, including Prince Edwari Island. This monster exhibit clearly indicates that
all competition will be exceedingly keen and spirited.
Other dairy products of butter, etc., will be largely exhibited, and promise to excel in test of quality and fineness anything hitherto secht.
Words of highest praise are due Manager Hil for the tirent displayed, is well as the consummate ski in arranging the vast details of canada's (irea Fair. It has ever been his aim to make th continent. How well he has succeeded we need only to point to what has already been accom-
plished. Farmers, stock breeders and everybody in general should take the time to visit the fait
and see the marvellous evidences of canada and see the marvellous evidences of Canada
agricultural and industrial growth.

## Commendation.

Dear Sir, The writer regds somewhat
arefully all of the best agricultural paper in the States and Canada, and camot refrain from onteresting and reliabse jonnal. We. feel lespecially interested in agriculture in the Doninions and it is a great satisfaction to keep in touch with the W. write thas, not that our commendation is of heasure to recomd our opinion of yome mot trust worthy paper.
There are many humbalagricultural papers in America and yot out of this number there are mot
owe twenty really der



The Western Fair mber issue, the Weetern Fair, one of C'anallas tember issue, the Western Fair, one of Camadat fine art exhibitions, will have opened its gates to
the public, extending a hearty welcome to all of he public, extending a hearty welcome may never ave had the pleasure of visiting it before. Since the Sheorporation of the Western Fair Association in ment, have at all times worked hard and studionsy to gratify exhibitors and visitors. Each year the receipts have increased and each succeeding air has surpassed its predecessor, a convincing proof of the popularity attained. Entries in every, Cass are fast coming in, which is an indication that ach department will contam a fall be materially isplay. Thexher owing the fact that there re no other exhibitions on the same dates. This will enable all the eastern exhibitors and others who used to divide their attention among such airs as Hamilton, Montreal and Ottawa to visit London. A word of warning might be well in pass partment te secure their stabling and spase by partment to secure their stabling and spate by he stalls have already been taken, and many will want location which perhaps they will be unable on get on account of their own negligence. There is sufficient time from the closing of this exhibition antil the opeling of the Ottawa exhibition for reeders to tranship their stock frem one to the ther. As the closing date this gives a clear week he Chicago ing Wir live weck department. All of the other World's Fair live tock classes do not commence there until the week following the close of our exhibition, so that this is another reason that the Western Fair of 1sm: will outstrip all its predecessors. The Apiary Department. The information he assary to intendig exhibitors as gleaned from fore we append a summary as follows: Entries lose Sept. 7th, and the fee is 25 cts. for each entry The honey shown must be the product of the ex hibitor, and arrangements can be made whereby Che honey can be sold after the judges have made their award, provided the exhibit is maintained The Ontarie Beekeepers A.01 and the prizes have been slightly increased, hut the alterations in the wording of the sections, as requested by the representative of the Ontario Beekeepers' As sociation, will greatly increase the display over that of last year, athough it was a very
reditable exhibit indeed. Each exhibitor is re yuired to show 200 lls . of comband also ext racted honey in sections t wo and withee,section $\$ 20 .(10)$, $\$ 10 .(1)$ and \$5.(0). A special prize of $\$ \$ 0.010$, section three is offered for the newest and most practical inven tion for the use of apiarists. This should bring but some new ideas. Honey shown at the Western Fair finds ready market at highest prices. so little Vr. Martin Emeigh, a respected past officer of the Mr. Martin Emeigh, a respecton thaticer of th and worthy in every respect, has been selected a judge in this department, so that compertitors will toubtless receive their proper order of merit. The poultery depart ment has been in the past wery arg theapearance of the building descerves a word of prabe, and is sollow. The exhibit this year promise to eclipse that of former shows. The chaiman of this department is making preparations to have extra entries. Intending exhibitors should now fail to make their entries just as somen as they ar in a position todoso, and not wait until the ver plaints that sufficient or suitable space had mo entries will be received. London has been de-fintit Iy settled as the collecting aml selecting bint fow
Western Ontario exhibits fon the Colluhbian lix



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## STOCK.

## Our Scottish Letter.

The leading feature of the female Clydesdale got by Messrs. P. P. *W. Crawford's solid big thorse,
Dirniey's Hero. He was sire of the first prize brood mare, and the forst sire of the first prize tweat-old filly, both
of them really first class animals. The brood mare of them really frrst class animals. The brod mare
is owned by Mr. John Sleigh, $\mathbf{j}$ r., Mains of Strichen, and was ived by Mre Janime., Lock hart, Mains of
Airies, out of the dan of the Balnedie Rovalist, Darnley's Last the dand sir Jame the Balmedie Royalist,
Suke's Winetti. The will take a position among the best of them, being wouderfullys sweet and eventy balaneed. The first two-vear-oid filly is a mare of rare quadity owned
by Messrs. Cocker. Hill of Pettr, Fyvie She has since been purchased by Mr. W. Wark, Brunctane,
Portobello, and is one that promises well for the Portobelloo. and is one that promises well for the
future. The Balmedie stud furnished the first three-- ear-old and the first yearling filly in the eueenie
Flisinwood and MV Lady respectively Buth are Flashwood and My Laty resppectively. Both are
mares which should do good service in the future mares which should do good service in the future
ar breeding stock. Mr. George Bean has an
axcellent stud at Balquhain Naius pitan
 Aberdeen shows. Mr. Bean is one of the best judges of ciydestales in Aberdeen, and he has
jaways. somethin better then the average to be
reckoned with in the show-ring. The as season was reckoned with in the show-ring. This season was
no exception ; Balquanain furnished as many good
exhibit it in berle
 stad in th
Balmedie.
The Edinburgh show of the H. and A. Society
has now been held, and it is undoubted that no such collection of stock peculiar to North Britain has
been seen in the show-ring for a long time. The
show that show has been a great success finiancially, the the
attendance having been greater than at any show
held for a nuuberof years indeedsin held for a numberof years in indeedssince the centen-
ary show of 185 . The great trophy of the exhibiary show of 188t. The great trophy of the exhibi-
tion was the three cups presented by His Royal ors gaining the greatest number of points for horses, catle and sheep respectively, The cup for
cattle was won by Mr. Leonard Pilkington, Cavens Kirkbean; that for horses by Mr. John, Giilmoner,
 Ayrshires and Galloways. The exhibitor who ran him closest was Mr. Thonas Valentine smith,
Ardtornish, MIOrvern. Argyleshire, whose exhibits were wholly. West Highlanders. He had actually
as many points as Jr. Pilkington. hut the latter gained most first trizes, hence he was declared the
winner. Mr till Winner. Mr. Gilmour's chief opponent was the prizes for shetlind porives, who which he iinumeroust the most
extensive breeder in (ireat Britain. He alto gained extensive breeder in freat Britain. He also gained
first prize for at two-year-old Clydesdale colt named

 exhibitor and all his exhibits this yearavere shrost shires. There was heavier compenetiton than wid
have ever seen at a show of the Highland, hut it Wase lis, such as the Blackfaced amil Border Loicesters Mr. Howatson, If Elentuck, the welloktiown





 ship it was a tie betwen the famous "New Yar"
Gift." owned by the Earl of Fevershime and lreed
 Abut Rirk tun, Bumetrew a well-k nown pat rom of







 Polwarth and Mr. Thompson. Inglewooll had the
 distinctionely composed of Booth blood As Lord Pol-
warth's. Warth's.
Ballindalloch rases for Abentativeen-Angus cattle the
 Grmold of Ballindalloch, but sir Macpherson
Grants own bull Eltham, the two-year-old, beat him for the championship. MII. Grant. Matins of
Advie, showed some excellent stock. Not from Advie, showed sone excellent stock. yot from
other than blood usually identified with Ballindalloch. His fourth aged boul, Rustler, is an animal of grand scale, and was well brought out. The
Earl of Rosebery also exhilited some admirable stock, and got second prize in the two-year-old
class wilh Marquis of Noray 9 ski. Mr. Whyt Spott, Kirriemuir, showed superior stock, and in
he cow classes Mr. Arthur E.Wqinten Hull, was first, and secured the tham, soniship with Equality, a beautiful cow-indeed a model. Sis was bred at Ballindalloch, and is a choice animal it his famous prize-winning cow Ladybird ieo. Smith Grant, of Anchorachan, with Legend,
Hiss Morrison Duncan of Naughton, with Elen, of Naughton, and Sir George Macpherson Grant prize winners in the various classes.
gained by Mr. Leoonard thilkington, with the wull Henry of Tarbreoch and Cedric 2nd of Tarbreoch, and Mr. W. Parkin-Moore. Whitehall, Mealsgate
with Macdougall 3rd of Tarbreoch -a wonderful record for animals bred by Mr. James Cunningham Mr. Pilking neversurpassed. In the female classes
was first with Tidy
th of of Drum aurig: and Sir Rober Jardine. Bart., both with Lady
Vaudeville of Castlemilk and Nable of Cast lemill The premiums for the Highlanders, as I have Iready stated, went chiefly to Mr. Valentine Smith,
of Ardtornish, but Mr. I. R. Camphell Shinnis Lairg, secured a very fair share of the money also Ayrshires were a better show than has been
seen at the Highland for many vears. The owner nd breeder of the champion bull, Dukeof Mauchline was Mr. Hugh Drummond, Craighead, Mauchline Wilson, Mansurals, Bridge of Weir. Other winnerts
ffirst, Mr ff first prizes were Messrs. R. Oshorne 16 ynholm
Lockerbie, with the Mr. Pilkington, with the yearling Field Marshal.
Ir. Alex. Cross, of $K$ hock Mr. Alex. Cross, of Knockdor, had the first prize
cow in ca f. Beanty of Holehouse S(3)76; Mr. Robert Kardrop, Garlaff, New (Munnock, the first two
year-old, Lady Diana ; Mr. Pilkington, the firs earling Braw Lass
For the first time in its history there was
eally good display of Jersey cattle at the Highland
 Wardlaw Ramsay, of Whitehill, and some friends tion to the surpemency of Glenthep ck amos, inst the the
Black faces, and Mr. Buttar with the Shrgst vere the success of Mr. Jacks flock at (richto Hindthrope flocks with the , bection, and the Cadzow, Borland, Biggar, had great credit in the
Black kaced classes with some of their youns nimals, which were undoultedly exceptionall| grod representatives. The Duke of Aryyle has
also a choice Hock at Ballymenach, largey draw fronn Overshiels stock it famous fountain-head of


## Dehorning



Prof. I. P. Roberts, of Corncll L Liversity Ex
 horns of his catlle will conie int, persurion of a






The result of the Ontation Commission in given,
und a receital of litigation on account of aileged Tuelty, of which the following is a sumumry:-
"In the United States, so far as we havic able to learn, all trials upon charges of cruelty to of the shals dehorning have resulted in the accuittal In Canada at least two trials resulted in the
acquittal of the cecused, but in a third trial the conviction of the parties resulted in the appoint-
ment of a Government Commission which report strongly recomumending the whactice and arging the passage of the necessiary legislation to "In, (ireat Britain there have been decisions on moth sides. those in reland and scotand beeng in
favor of the legality of the practice, and those in England, notahly that of Lord Chief Justice coleridge and Mr. Justice hawkins, against. Of wenty judge ect sixteen declared the have passed legal. while four pronounced it illegal.
As many prefer to prevent the horns from grow ing to sawing them off, experiments with chemical dehorners were condacted under the direction of aalves being selected for the purpose Coustic pot ash was found the most effectual means, and was ised exclusively in subsequent experiments. Since hucessfully prevented by a single application to each horn, but in no case was the application made Fig. 1 is the head of
 Fig. 1 is the head of calf No. 1 , growth of
horns destroyed by caustic potash paste. calf No. 2 : left horn destroyed by sulphuric
acid mixed with sul. phur.
Fig. 3 is the head of a calf with destroyed ty stick caustic potash in life in small quantity to ne erme The results of all

ine hor the mansher by the touch. caustic potash ${ }^{*}$ is as asfollows
The hair should be closely clipped trom the skin and the little horn moistened with water to which soap or a few beeps of ammonia have the oily secretion of the skin, so that the potash will more readily adhere to the surface of the
iorn. (are must be taken not to moisten the skin except on the horn where the potash is to he apphech. One end of a stick of caustic potash is then rubbed on the int it is slightly softened. lits horn. This operation is repeated from five to eight times, until the surface of the horn becomes slightly T.W minutes, and the calf is apparently insensible budding hornt sand frops off in the course of a month or six weeks, leaving a perfectly smooth
p, Noll. Vo intlammation or suppuration hias taken Place in any of the trials we have made. The re-
sult: of the se experiments. warrant he following recommenditi ions: 1. That for elliciency, cheapness, and ease of ap-
plicat ion - tick caustic potash can be safely recommendech tor pre enting the growth of horiss
2 The life arn what many patented chemical dehornet are nuw heing sold, one of then, sold at $\$ 1$ per bot-
tle, wis anayzed, and proved to to a solut ion of


the leading agricultural journal in the DOMTNION
the whluam published by
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fifteenth of each month.

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14. Letters intended for
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with this paper should be eaddressed as below, and not to
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THE WILLAAM WELD CO

## CONT円NTS




 Qtexravs sivi Asswers


 Poutrex:-
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(wnux Cirec.:




 w. heen sold. and in orlurt of finthur t timulath in Mulation we will give wn cryin to wery wn


Studs, Herds and Flocks
 In our usual front page illustration for March the three breeds of swine bred in the Markham herd, which was founded and has always been in the possession of the present proprietors. It was through his management attained considerable prominence, that the late Mr. Levi Pike met his death; just how and the direct cause will probably never be known. It is with sincere regret that the a young man from the ene fact that so popular a young man from the ranks of our fine stock however, that this breeding establishment will be there will be a change of title. The herd has steadily increased in size and improved in excel-
lence, until it is now entitled to be enumerated among those in the very front ranks.
Some excellent Suffolks have been bred : all the trace to an importation from Lord Ellesmere's
noted herd, and as the firm intends to restrict their breeding operations to Y'orkshires and Berkshires purchasers would find the former a most desirable
lot. We were most fivorably impressed with the can inspect the herd without becoming conversant with the fact that these pigs are bred to meet the
demand of the day, and that while they have sufficient bone to stand the forced feeding that early
development now demands, they still maintain the smooth, even quality and predisposition for pork producer, which shows that they carefully selected and skilfully handled. There is and extreme coarseness of bone that so many of the first imported Yorkshires displayed, and it is where so large a number show as much uniform been prepared for exhibition, and among both Yorkshires and suffolks there were specimens that
could hardly have failed to bring new laurels to the credit of the herd, had not the firm decided to refrain from showing this year. These are now
offered for sale, and doubtess many will avail themsel
inimals.

About three miles from knowlton, (Quebec, on
the (: P. Railway, and situated on the shore of the picturesque Broom Lake, is where Mr. Sidney
Fisher makes his gentleman is making a specialty of fancy butter
for the city trade, and with the exception of two mor the city trace, and with the exception of two
months of the year can sell all he produces for 30
cents per pound in Montreal. He has tried hoth Ayrshire and the Jersey, but he considers th Guernseys are superior to either. In his mixed
herd of registered and grade cows the lowest per
cent. of fat is 5.20 , while the average is nearly ( $\%$. $)$. cent. of fat is 5.20 , while the a a erage is nearly $\begin{aligned} & \text { bi.). } \\ & \text { The milk is very highly colored, as is shown by the }\end{aligned}$ fact that even in the winter time it is never
necessary to une any artificial coloring to give the rich color of June butter
The first bull used in th
he Hon.J. ('Abbott St. Anne's. About thed from ago a selection, comprising the splendid dairy bull
Beurtit 23, 2 and four heifers, was made from the famous Ellerslie stock farmo of Vice-President Nor sive sire, as is hhown by the young stock on the
farm, farm, alnong which we noticed a very promising
hull calf, Yanpire : Sk W3, out of Vanessa and got Reurfit, This calf was dropped the ent on of lat
October, and now weighs $Z$ ? 1 pounds. His dan i
 pounds of which would make a pound of butter
From the first of Noventer last to July list, sh Gare 719 pounds, and this on just the regular feed
 Ite has also a par of thre-e-p parter-there yearling
steers that tip the scale at 1fil) pound. Mi Fishel heports a strady da. to any booming of the hreed
that this is not






View of the surrounding count ry can be obtained.
Directly in front is the lake ati Bear. Mount Orford on the opposite side, while away in
the distance can be seen Jay peak. the highest. the distance can be seen Jay peak. the highest
point in the Green Mountains in Vermont. The point in the Green Mountains in Vermont. The
farm is naturally well adapted for dairying being well watered with a number of springs; on one of these a hydraulic ram is placed which forces a plentiful supply of water up through the house and
stables. The training stable, though so lately established, has already obtained such a wide reputation through the eastern part of Canada, that in
addition to having horses from the surrounding country, they have a number from Sherbrooke. Montreal, Vermont, and other places, under their are: inteed the applications have been so numer
ous that a number have had to be refused. Thes men have made butter dairying their specialty, and or this purpose prefer the nostein, and are dete time and expense in doing so. They have spared no an number which were imported direct from Holland dditional quarantine stations, and the need advantages quarantine stations, and the great dis
adve the breeders of pure bre stock in the Eastern Townships labor in importing, from their farms in Vermont, one and athalf mile distant, they had to ship their cattle all the way to of about 1 ,e2(1) miles to move one and distanc miles. This herd is headed by Artis Peer 0 , ire Prince of Artis 2179, grandsire Artis 127, N. H years old, he has the following prizes to his credit $=$ 1st in New England state Fair, and lst in herd,
1889: 1st Providence, R. I., and 1st in herd and 883: 1 lst Providence, R. I 1 and 1 st in herd and
sweeptakes gold medal, is 89 ; 1st Boston, 1889 st New England, 1s80; 1st Barre, 1800; 1st and State, 1491 ; 1st Providence, 1891 ; 1st Ver Hampshire State Fair, and 1st in herd, 1892 . In the herd are such cows as Leize 2nd 1023, N. H. B., with
four-year-old milk record of 2.430 lbs in days, and $4,6 \mathrm{~m}$ in sixty days. Porcelain of the Pine Grove ix220, with a milk record of 67 of ibs.
one day
: she was first at both the Vermont State one day she was first at both the Vermont State
and the New Hampshire State Fairs in 180 . Her r record of 18 pounds $140 \%$ os, in seven days: th SW Was lst at the Vermont state Fair in is81 and John's in 1885, for best cow of any breed. Princess, own sister to Stella Artis, record as a two-year-old
15 pounds of butter in a week. There is a number of young stock on hand, among which is an exceed ingly promising bull calf, which at the age of four nonths weighed f(0) pounds. These animals hav our exhibitions, and we predict for this new firm Cull share of the honors at our shows, and we wel the Black and Whites in Canada.
lea flrm.

About half a mile from Sunnyside, at Rock About half a mile from Sunnyside, at Rock
Island, P. O., on the Tomfobia River, is the farm
of Mr. F. P. Ball. This gentleman is engaged in reeding s. Ball. This gentleman is engaged in toke Pogis and St. Lambert Jerseys. At the head of the stud is the five-year-old chestnut stallion utton, sired by Epanlet 2.19; dam Daisy Maid, by
Nambrino loy 881 . This horse was bred by Roht. Steele, Philadelphia, Pa., and has heen Robt urcessful both on the track and in the stud. They thers, a number of which they are fitting for th aces. The Jerseys are headed by the Dluke of Alexis, offsuperior Stoke Pogis and st. Lamber Jerseys, and find a growing demand for well-bred stock in this section.
SHROPSHIRES AND CHESTER WHTES AT MR. W. E. For a number of years Mr. Wright has been treeding and feeding. It is one thing to show a lot of lams picked from focks that someone else has dictate successful crosses, and then feed and fit th lambs so that they can hold their own against all done on several orcasions, and we shall the disappointed if this seassn's shows do not bear out
his former
 flow of Messes. Black, of Shropshire England, and
the excoedingly good lot of lambs that he has got
then this season prows that he is a good one. Several
par: icularly useful hearling rams were on hand parsicularly us-ful shearling rams were on hand at
the time of our visit, and among these were some imtented for, how. Amony theses we mention a flock hat now been established for over ten years


 lion werently added and in this line the sellection
hatre heen winally well chosent and already the
the oxford herd of polańd-chinas.
The stock farm of Messrs. W. \& H. Jones, Mount Elgin, is situated eight miles south from Ingersoll. Elgin. is situated eight miles south from Ingerson
at which station intended purchasers will be me
if natice by letter or telephone is siven. if notice by letter or telephone is given.
The county of Oxford is credited with having
been the nursery of the dairying industry in up this branch of agricultural pursuits more re cently, yet Oxford is still considered the head quarters for cheese production. With dairying must always go the kindred industry of pork
production, and in no locality are the two products oroduction, and innolocatically ntilized. Feeding
better or more systematice nat
litrge quantities of pigs, they one and all find the large quantities of pigs, they one and all find the
necessity for good breeding stock. It was the necessity for good breeding stock. It was the
knowledge acguired through many years of suc
cessful daircing that showed the Messrs. Jones the cessfuldairsing that showed the Messrs. Jones the
necessity of well-bred pigs for pork production, an 1 induced them to embark in breeding pure-bred
swine. Poland-Chinas are the sort they have swine. Poland-Chinas are the sort they have
selected to breed, and the greatest possible care in
selection has been observed; and the result is that selection has been observed; and the result is that
they have a herd which may be classed as second to they have a herd which may be classed as second to
none in the uniform excellence of the speci-
mens they have purchased, as well as those bred in none in
menst they
the herd.
Toattempt to describe the long array of good
individuals that this herd contains is entirely out of the question, but as we understand that it is the of fairly representative animals at the shows of 1893. our readers will have an opportunity of judg ing for themselves of the uniform excellence of the
herd. Four imported boars have been used:among these Ellas Moor, an eighteen-month pig, appears to be the favorite with his owners, and although
he is exceedingly smooth and well finished, the he is exceedingly smooth and well finished, the
ot her three, to our minds, were equally good when iewed from a breeder's standpoint. At the time their pigs, and although they had developed strong
pigs ind large litters, they were in wonderfully pigs and large litters, they were in wonderfully were intended for exhibition. The herd is in the
most flourishing condition, producing wonderfully most flourishing condition, producing wonderfully
strong pigs, with scarcely any inferior specimens, strong pigs, with scarcely any inferior specimens,
considering the large number contained in the consid.
mpi shide shorthorss and heicesters.
Messrs. E. (Gaunt \& Sons, the proprietors of this
hed and flock, reside near Lucknow, on Kincardine herduch of the G. T. R. Both herd, and flock have gained celobrity of late years. having been quite
successiully shown at all the leading slows. Many of our readers, will remember their bull Lord
Lovell and his thrifty, good-fleshed calves, as they first appeared in the show rings a few years since,
and this bull has left his mark upon the herd in the us during our recent visit. Lord Lovell was bred
 Sumpton Hero. his dam being Matchless of Ehn
hurst ?nd, and is, therefore, full brother and on sear oder than Challenge, who has also been con The females in the Ample Shade herd are large in size, with plenty of length, good, level quarters
and of the thrifty, easf-keeping sort that are and of the thriater on accont of their undeniable utility. Ammathe cows we especially noticed the descendantso of the of tris, and as these have been ohiefly, wosucd with bulls of the Aberdeenshire line of orthodox among believers of this sort. As we saw
these cat le in the field we could not help thinking these cattle in the held we could with their large
what an ueful lot they were, with and
hapely udders, and with every appearance of being youd feed he as well. As before mentioned the mandty on the present herd for six years but
 at present at the head of the herd, is ank exceeting in at peremt one. Ite is a deep red, remarkabhy smooth an lhamsme, and carries such a weath of natural

 Fon haters. Scotland. The cap ital erop of bull and Monsy in here the. These calves are a choice lot.
Bow it is hot alone in cat the that the Ample Shade




 When tur inv:


## Our Cattle Trade

The continued slaughtering of Canadian cattle at British ports is a slanderous reproach to the damage, which is its direct result, the farmers and stockmen of Canada are in no mood to allow this ibel to rest as it does at present. The disputations in Great Britain as to what the veterinary inspec ors there really discovered in the lungs examined and which they reported to disclose contagious pleuro-pneumonia, have lead many to conc'ude that the deposits were simply of fibrinous material con olidated after an ormmation of the lungs, caused nyexposure. We are in a position to state that in a exposure. eterinary surgeon to the Privy Council Board of Agriculture, England, makes the very important admission that he has never seid that the thisens b.xists in Canada. As indicated by the letter of the Deputy Minister of Agriculture at Ottawa, given below, every part of canada searched by taff of veterinary onfcers wing no fase here, race of the diould go forward and none could be discovered by the British vets. Shippers and others report this season's trade to have been hopelessly demoralized ; and the outlook not improving and everthing being in a state of uncertainty, there is already a strong disposition in various quarters to bandon cattle feeding
With regard to the inspection of our cattle on anding in Britain, we are able to say that Mr. Wm Hunting, M.R.C. V.S., veterinary surgeon, has been appointed chief inspector under the Contagious
Diseases Animals Act to receive the C'anadian cattle. Concerning him Dr. Mole, M. R.S.V.S., of Toronto, writes us:-"He is well known as a thoroughly expert veterinarian, and Canadian cattle exporters may feel assured of his fairness and im-
partiality. Hisscientific attainmentsare second to partiality. His scientific attainments are second to
none. As a public man, he is well known in journal stic circles as the editor and proprietor of the Ceterinary Record."
We have written the Canadian Minister of Agrictl
reply :-
eply :- Ottawa, Aug. 19, 1 s:93. (ientlemen, I have to acknowledge your letter
of the 17 th inst. in relation to the cattle regula ions. You ask what steps, if any, have been taken herds from contagious pleuro-pneumonia. When Ge question arose in England, in October last. of Canadian animals being affected, every part of tha
country was examined, if not by a little army, a least by a considerable staff of veterinary surgeons,
withouit any trace of the disease being found. The without any trace of the disease being found. The
veports of all the veterinary officers of the depart nent in all parts of the Doininion have since been uniform in the same sense : and it is not possible
that contagious pleuro-pneumonia could exist in hat contagious pleuro-pneumonia could exist in As respects the second question sending of $t w o$ oxperts to Camada by the Ceterinary Department of the lmperial Govemment at the expense or
the Canadian (oovernment. A similar invitation was made in October last. It was not arrepted then, but from it recent debate in the House of
Commons in England I think it is likely the invit: ion will mow be accepted.
I have the honor to gent lemen,
hour ohedient servant.
 Some time ago cable despatches from England represented the Minister of Agricult ure as saying Ganada to determine whe ther or not any plague wisted here: hut in a later speech he appears t"
have refused to do $=0$. Right or wrong, the restric fons are to be maintained, that is evident, and the cottioh Farmer even hints at the absolute prohi
hition of the importation of foregn stores: and
 means that they are trying the panaceat of protec tion. (anadian catlle men may make up their
minds that they will get no farors in Britain, but he hones rearon shomat the gien imstead of han There ha- imen a company fomed in Vow York



Chatty Stock Letter from the States (EROM OUR CHICAGO CORRESPONDENT).
Business in this market for the past month has been much unsettled by reason of so much uncer-
tainty in financial matters. Prices have shown at times violent fluctuations, which, from the stind point of supply and demand, seemed unreasonatle. Fortunately receipts have been moderate most of
the time, and variations in values have not the time, and variations in values have not gone
beyond certain limits. The general outlook is a little more favorable than it was. The high rate of exchange on all eastern paper has practically put n embargo on shippers doing business through the banks. This has heen a serious blow to this branch
of the trade, and has been the means of crippling Exporters.
Exporters were doing a good business up to two
eeks ago, but the decline of British markets has weeks ago, but the decline of British markets has
discouraged business in that line, and now they are operating very cautiously
The season of west
The season of western range cattle has been fairly inaugurated. So far supplies have not been
excessive, but the quality was generally poor, and prices naturally low.
Hogs have fill
Hogs have fully recovered the smash occasioned concluded not to sacrifice, and the result was ia period of small receipts. which, with a good demand, caused an upward urn in prices, though the Top prices at present are ahout as follows
 Light hogs sell at a premi
Light hogs sell at a premium of 50 c . over heavy.
Sheep prices have been very unsatisfactory Sheep prices have heen very unsatisfactory.
The market has been over-stocked with common and inferior grades, many of which were practi-
cally unsaleable at the lowest point of the vear. Western sheepare coming freely from the ranges. They meet with a light demand from buyers, because they are hardly fat enough to suit killers Receints thus far this month foot up 175,800 cat-
tle, 290,2010 hogs, and 183,800 sheep, showing a detle, $20,20,20$ hogs, and 183,800 sheep, showing a de-
crease of 30,600 catte and $53,400 \mathrm{hogs}$, and an increase of 63,100 sheep compared with a year ago.
Dealers do not hope for much improvement in

FARM.

## Agricultural College Affairs

A commission, consisting of Mr. John Winchester. of Toonto. Master in Chambers, Mr. John
Waterworth, ex-M. P. P., farmer, of Wardsville, and Mr. Johns. Pearce, seedsman, of London, have completed their enquiry into the alleged lack of harmony among the staff of the Ontario Agriculfindings, which were unanimous. The report itself, which is hefore us, covers 156 pages, and is the result of about three weeks investigation. 94 persons in all being examined. Bulky though the report is, Prof. Shaw complains, in his defence throngh the daily papers, that all the testimony was not included, and that the compilation has not have give him. It would have looked better to asking for an investigation was presented by five x-students- R. R. N. Morgan, Strathroy, W. L. Mullholland down. stating as follows:







Having gone carefully through this extensive think the latter might have been condensed and in Tme respects made more pointed.
That there was lack of harmony in the institu(ion is quite evident from this report, and the plished during the past few rears as has been the *. The commissioners hold Mr. Shaw, Professor of diviculture. chiefly responsible for thi- eally the central one in this whole difficulty. It is quite Ppatent that in any institution omong subordimate otticials a unity of action. if the bet results Fre tow secured.

Fontse Mr. Shaw seems to have | From the very outse Mr. Shaw seems to have |
| :--- | and -nspicions that he was slighted. He

THE FARMER'S ADVOCATE
the room occupied by the President's secretary.
When Prof. Shaw's wife was conning to wisit him, President Mills extenged an invitation (which was accepted) to entertain her during her stay, and sent
his carriage to the station to meet her carriage was there and she was taken somewhere else. When President Mills afterwards spoke about it, Prof. Shaw simply listened and made no ex-
planation. Still later he imagined that in consequence of a letter given to Colonel Clarke, the quence of a letter given to Colonel (liarke the
latter ceased giving his son a ride in his carriage,
and took up Mr. Mills' boy inde insed. In the eviand took up Mr. Mills boy instead. In the evii
dence, however, it appeared there had been no dence, however, fit appeared there had been no
communication from Dr. Mills to Colonel Clarke. that such a thing had never been thought of by
either of them, and that as a matter of fact Mr. Mills' boy himself had requested Colonel Clarke t long period of time this imaginary grievance rank led in Mr. Shaw's mind, and so the thing goes on, the
troubies becoming greater. It is troubles becoming greater. It is greatly to be be
deplored that his work there has teen marred deplored that his work there has heen marred in
this way. He admits himelf making marions
mistake buying cattle at his own auction sale for mistake buying cattle at his own muction sale for
the college farm, contrary to the rules and the the college farm, contrary to the rules and the
decision of the Advisory Board. We must confess that we ar
any real reasone why the staff should not thate
worked together harmoniousl worked together harmoniously. Mr. Shaw was success of his work in the institution, and certainly had a capacity in getting through a vast amount
of work, as was shown by the fact that he was able to earn at least $\$ 900$ in writing for various papers,
 oughly practical and succesfoul men as the two
suchesive Miniterso sur successive Ministers of Agriculture, the Hon. Charles
Drury and the Hon. John Dryden, together with Drury and the Hon, John Dryden, together with
the advice of the Advisory Board, consisting of such successful farmers as John I. Hobson,
John McMillan, M. P. E. Jeffs, J. S. Smith, G. B. Boyce, D. A. Dowling and Wm. Donaldsson
he should have heen able to have madea cess in the farm department, and undoubtedyly great
improvement has been made there within recent improvement has been made there within recent
years. We notice that he was very strongly urged in years. We direction of fixing the farm roads, cleaning up about the buildings, killing weeds, etc. On one occa-
sion, when he had been advised to repaira farm road he undertook, on his own authority, to improve the
public road first, saving he thought that would have a better effect upon visitors. It would cer
tainly have been much better all round, had h tainly have been much better all round, had he
fallen in line with the able men who were associated fallen in line with the ahbe mer who were associated
in directing affairs at the farm, instead of resisting authority. It was most unfortunate glso that he
dropped into the habit of explaining (indirectly perhaps, at times) to the students that he was course, but could not, because some one else in authority did not concur. Hon. Mr. Drury very
aearly foresaw and clearly pointed out that this early foresaw and clearly pointed out that this
would prove destructive to discipline and demoral ize the whole institution.
In his defence, Mr. Shaw charges the commis sion with partizanship, and win mak ing an unfair
report against him, explaining among other things that he was not aware of the existellce of by-laws governing the institution when he took office. If rational course
his relation with the institution.
With the exercise of a thete more common sense and the application of the "give and take" principle
by Mr. Shaw we believethistrouble would have been avoided, and the commission and its work would never have heen needed. The students whose agi
tation brought about the in vestigation are entitled to creedit for the light that has been thrown upon tio weak points in the past this storm will clear th
tio hoped this college esky and result in its doing still more effec
tive work for Ontario agriculture.

The Toronto Empire on the College Trouble The Empire, of Toronto, very concisely sums up follows:
Tignom the report of the commision that hat been inver

 4. alleged to be that Prof. . ihaw desired to get ontrol of the
institution free from repponsibility towards the prece ident or he Government. For this purposc he war poi-mning the
ninuds of evervbod






Findings of the Ontario Agricultural College Commission.



 $\underset{\substack{\text { Foreman } \\ \text { Mrs } \\ \text { Thartin } \\ \text { The } \\ \text { Ton }}}{ }$






 agitator for this in vestigation.









 reason thes objected to the President was that he had found
caut with them
anile in the collewe, ha wing on one or two




 nitrue man, but gave
of this gen rial
Twoor
Tharge

为e. present students and Mr. H. . B . Sharman,











 laint whateerer. The instances wrol






 cited wethin hit and
lithncer mentioned.
Incomus.

















 the ine intuion for cler en ven
of the Adrison








 by the public generally:



 ment in order togive hime mare time for hite remaining divites






 mot Axo he coinduct orvor, Maw. vour oomminsioners can

 Prof ihaw wat warned hy. Minititer Irury op the danger



 hen men ioning hir krievanaes, kivi ink them to undery tand












 and



THE FARMER'S ADVOCATE
September 1, 1893




 nd eridently with 4 ion of having Dr. Mills remege



 dutiesot all the sb
throthe
properly entoroceed.


 We have the honor to forward hrewith the evidence take
durin the investitation together wwhth all documents referred
to berein.

John Winchester, chairm
John Watterworth,
J. S. PEARCE, Commissioner

## Memorial to Mr. Foster

Brandon, Man., July 31, 1893.
To the Editor
Desir Sir: You will much oblige the committee y inserting the same in your excellent paper with he following advice to the farmers :
To the Farmers of Manitoba, Gentlemen
We, the committee appointed at a meeting of be presented to the Hon. Mr. Foster, Minister of Finance, on his visit to Manitoba, have tried to discharge the duty assigned us by producing the memorial as you see it in this. paper, and which, farmers of this country, was unanimously adopted We therefore, with confidence, submit the same for theiradoption, trusting that we farmers can be united on this platform, and that in every local ity there will be meetings called and the said memorial (or one as sinvilar as possible) adopted, and delegates appointed from each place to wait on when he will visit their locality, as the hon. gen leman has expressed a desire to m.
different points in this country
Let every man do his dut F ; be
which means action at once, and we will convine
the government that we mean business.
By order of the committee.

To the Hon. George E. Foster, Minister of Finance.
Sir,-In continuance of expressions by petitions nd resolutions last winter, the farmers of Western Manitoba in mass meeting assembled in Brandon on the 29th of July last, adopted the following memorial to the Government as declarative of their necessities for consideration at the next meeting of the Parliament of Canada. They feel that in this they arepleased you have made after reasonable en quiry youcan find thesedemands to beonly equitable and just. They find that nothing less than meeting these will make farming reasonably remunera with the the demands are in no way section of the Dominion ; and that they are neither extravagant or unjust to any when due consideration is made fo what has heretofore been done for other interest therefore respectfully submit this as the only list of concessions, the granting of which can give them justice in the premisc

Exports.
The exports of any country are one measure o its internal importance, and consequently the according to results. In the trade and navigation returns for 1892, we find the exports classified as of the fore
Anime forsest and products.
Agriculture and produc

As portions of the first two items belong to manufactures and agriculture respectively, we separate them and find in the first Aninufactures. padodist and
Add manafactures proper.
$\xrightarrow[\substack{18,000,000 \\ 10,000,000 \\ 7, i t 0,000}]{ }$
The manufactures in every form. ........... $\$ 10.740,000$ The balance of forest and animals being agri culture pure and simple, when added to the agri 675. As manufactures and agriculture are affected in reverse ways by protection, its benefits and burens are measured in exports by the figures above.
Again manufactures may be divided into lasses, and as the government has from time to time lent its ear to the representatives of these year a year each, we submit it is only justice they
should consider the claims of the representatives of the $\$ 52,268,075$, which are , province by province, section by section, practically the same.

IMPORTS.
If again we take the matter of revenues from
ustoms and excise, the agriculturists being 3800 000 of the $5,000,000$ of population, they contribute $\$ 20,000,000$ of the $\$ 28,000,000$ raised from these two capita, by importing heavily for manufactures pay larger customs than agriculturists, as the atter pay them again in the consumption of the products, it leaves the figures unchanged

THE PROTECTIVE POLIC
Whatever may be said of the necessity of this poincy at its inception, even its most ardent ad
mirers must admit, with circumstances as changed as they are now, there is every argument for its
modification. When introduced there was excessive production in many lines in the Tnited States because of the plethora of cheap money consequent upon the close of the civil war, and now things has got to its true value, the consuming power of is being manufacturers, too were in their infancy; but now, as most of them can take money they have terprises and can compete with the Americans
other fields, we submit they can compete at hom In any event competition from outside would population would get the benefit, and it is desirable greatest possible number." greatest good to the But this is not all. When, from an agricult ural
point of view, the N. P. was adopted there were ractically four provinces every one of which manufacturing industries were
created that were of more or less bencfit locally to the agriculturists. Since then half a continent
has been opened up to agriculture in the Northwest, which can derive none of the benefits of these inthe hardships of enhanced prices by heary freights try. Some of these may be shown by one illustrafor $\$ 110$ cash, the freight to this country is $\$ 12.511$,
and the price here is $\$ 110$ cash instead of $\$ 120.20$. The government cannot fix the prices of the products of private enterprixe, but it can ble por the
removal of tarifts lets in a competition thai will
spedily wow the But the N.P is faring in another of itsmision
as is evidencel by the statement of the trade in
navigation returns. We give the duties on imports
nto Manitoba of agricultural implements for the years 1886, 1889 and 1892 to illustrate this:-
1886 .

Total. $\quad$ the imports of 1859 fitfy per cent.
This gives the
greater than those of 186, and those of last year
nine times those of 1886, and seven times those of greater than those of 1886, and those of last year
1889 . The 1 The lesson is, it has taken piles of money out of for the Canadians," as it was alleged it would do. Th a word the duties fail to keep the home field for extort unusual prices on all sales made-as witness comparison between prices on this side and the
other side of the line to actual consumers: other side of the line to actual consumers
Stubble plow, steel
Breaker plow
McCormink binder Mecormi
Deering bi
Mower
Rakes
Or a
of about sito on an average outfit less th From the figures above it will be seen that last
year Manitoba paid $\$ 25,902$ out of the $\$ 41,852$ paid by the whole Dominion on binding twine. But our grievances are not as agriculturists trades, which are so important to farming in this equally serious moment is forced upon us. With the American forests practically exhausted there is no danger of illegitimate competition from that
quarter, and with our own forests none too there is no need for haste in production-the re moval of duties could only lead to reasonable competition, and would greatly preclude the possi-
bility of combines. As building material kind is scarce in this country, and as protection for man, beast and implement is so imperative, cheap lumber is the all-important question to the Northwest farmer. Under protection we have now, for
instance, a combine of all producers that have access to our markets that exacts a profit of 20 per cent. on cost at delivery on all sales, rendering
good lumber beyond the reach of the farmer of good lumber beyond the reach of the farmer of three times the profit in any other commercial business with the same amount invested. Under this combine a profit of half a million of dollars an-
nually is open to the lumber dealers of Manitoba lone
Though the duties on coal were nibbled at last of an unnecessary burden. We say unnecessary,
for the trifling benefit of the industries in Lambton county, Ont., are not at all an equivalent, even from
a Federal point of view, for the consequent taxation on all classes of the community. Our payments duties on this one commodity alone, for the pas three years, were $\$ 1,154, \$ 10,300$, and $\$ 26,888$. It deed to show how the Northwest through the operation of the wells at Petrolia got a return for the $\$ 26,887$ contributed to the revenue last year. To sum up, estimating a set of implements to last five
yearst those in use on an ordinary quarter section
cost the farmers of this country unnecessarily each
 than his Dakota competitor, the quarter section
farmer is in this particular hand icqued per year by
The extra cost of limber, coal oil, twine, etce,, amountis


Which means the difference between successf and unsuccessful operation to the average farme wherever in Canada he may be found.
When considering the arguments fo
position herein taken, there is another most attention of the government. It is this-the farmer is the cnly class of producer in Canada who may be the price of his products, no matter what facturer will regulate the price of his products according to their cost through duties on raw agencies may of labor, etc., but no matter what agricultural products-the Canadian farmer has to suming centres. The necessity, therefore, for en high him by the removal of tariff restrictions, compete with his American or other rival in the markets of the world must be apparent to all who give the matter a thought.
We submit, therefore to in this country (and profitable operations to those employed are the best. the only true immigration agent ihe government can employ), we must have
coal (il), binding twine and barbed wire free from duty, and the duties on implements reduced to at ampl, protection to the per cent, which will leave
discrinination in makers against ample protection to the Canadian make
discrinination in freights.
Ill of which is respectfully submitted.

With this contribution Hoyes wasto riter closes his series of to the columns of the Farmer's Advocate the Composit.. ful how indifferent many farmers are to the presence of these waifs in pency tife; but we hope that the reading of these articles will have a ten
 against weeds:

1. They invol
2. Smother out ustaful plants.
3. Rob the soil of moisture.
4. Aake foor from the soil.
5. Often afford shelter for insects and injurious fungi:
6. Give farms an unsightly appearance.

If we consider these objections, there is certainly much reason for contin-
ual war being waged against weeds. As a fitting conclusion to our outline ual war being waged against weeds, As a fittin conclusion to our outline
of the most common weeds in Ontario, and the remedies likely to be success
ful in ful in getting rid of them, the writer adds in a tabulated form some informa-
tion which may be of service to inteligent readers for reference in the future. a tabulated list of the most common weeds in oxtabio.

| $\begin{gathered} \hline \text { ORDER. } \\ \text { RANUNCULACR.... } \end{gathered}$ | scientific name. | common rame |  |
| :---: | :---: | :---: | :---: |
|  | Ranunculus | Buttere | Perennial. |
|  | . bulb | ${ }_{\text {But }}^{\text {Culbons }}$ |  |
| Cruefrrma |  |  | arenal |
|  | Copan en |  |  |
|  | Thaspi aryense | Penys-ree |  |
|  | Sister | $\xrightarrow{\text { Hedige mustard }}$ Worm seed musturd |  |
|  |  | Corn popy. | Perennia |
|  | Hypericum eriforatu | Stion | Annu |
|  | espertina.. | Mhadue cocke |  |
|  | astium | , rield chickwee |  |
|  | Saponaria ofticina | ${ }_{\text {Premen }}^{\text {Bouncing bet. }}$ Pursiane | Perennial. |
| Portuatacer. | Malva rotundifoli | MallowMusk mailiow | Perennial. |
| andardiacre. | Rhus enenataio | Poisisen sumach |  |
| LEGUMINOSA | Rr.raticans. | Climbing poison ivy |  |
|  | Viciai craccanse | Wilid tare | Reronnial |
|  | Medicago lupulins Melilotus alba.... | ${ }_{\text {Black }}^{\text {Black medick }}$ |  |
| Umbellifers. | M. Pfticinais | Yellow elover. | enn |
|  | umm maculatun |  | $\cdots$ |
|  | Ennothera bienis ${ }^{\text {Emifilioum }}$ |  | Pereennial. |
| Crastlack |  | Teasel | ieni |


| orider.composita. | scientific name. | common name. | deration |
| :---: | :---: | :---: | :---: |
|  | Senecio vulgaris. | Groundeel. | Annual. |
|  | Ambrosia artemisiefolia | 'Rasweed. | ... |
| * | Leucanthemuin iligare | Ox-eye dais.. | Perennial. |
|  | Tanacetum vulgare | Tansy. | ." |
|  | Solidago Canadensis. | Golden rod |  |
|  | Rudbeckia hirta. | Cone flower |  |
|  | Centaur |  | erennial |
|  | Sonchus ole | Sow-thist | Innual. |
|  | Erechthitis hieracifolia | (iraweed. | Anerennial. |
|  | Lappa major Cichoriun Intybu | Burdock | Biennial. Perennial. |
|  | Taraxacum Dens-leoni | - ${ }^{\text {Dandele }}$ | Annual. |
|  | Maruta Cotula | May weed. | .. |
|  | Cirsium arvense | Canadian thistle | Perennial. |
|  | anceolatum.u. |  | - |
|  | Aidens frondosa. | Bur marigolid. | - |
|  | Inula Helenium, | ${ }_{\text {Ele }}^{\text {Elecampane }}$ |  |
| Scropl | Verbascum thapsus | Mullein. | iennial. |
|  | V peregrina. | Neckweed |  |
|  | Linaria vulgaris. | Toad-flax | Perennial. |
| Verbenacea | Verbena hastata... | 俍 $\begin{aligned} & \text { Blue Yervain } \\ & \text { Motherwort. }\end{aligned}$ |  |
|  | Nepeta Cataria. | Catnip. | . |
|  | Brunella vulgaris |  |  |
| Borraginackes | Echinospermum lappu | Stickseed hound's | Biennial. |
|  | Echium vulgare. | Blueweed. |  |
|  | Lithospermum arvense | Pigeon weed | Annual. |
| Solanack | Datura Stramonium | Thorn apple |  |
|  | S. nigrum.. | Common nightshade | Annual. |
|  | Physairs viscosa... | Bindweed |  |
| con | Cuscuta trifolii. | Dodder Common milikweed | Annual. |
| Asclepladacef. | A. Actepias ${ }^{\text {A }}$, tuberosa. | Butterfly weed |  |
| Plantaginacef.. | Plantago major | Plantain. | " |
| Chenopodiacea. | Chenopodium album | Lamb's quarters. | Annual. |
|  | Blitum capitatuin | Strawberry bite | . |
| A MARANTACEA. POLYGON ACEAE. | Polygonum aviculare. | Knot grass | . |
|  | P. Persicaria, | Spotted knot-w | ." |
|  | P. convorvius ${ }_{\text {Rumex }}$ A cotosello | Field Sorrol.. | Perenni |
|  | R. crispus.ilin | Common dock |  |
| Euphorbiacke. | Euphorbia Cyparissias | Yellow spurge |  |
|  | E. maculata | ${ }^{\text {spotted spurge }}$ | Annual. |
| Urticacem. | Urtica dioica. Allium tricocum | Wild Leek |  |
| Gramine.e | Bromus secalinus | Coess | $\underset{\text { Annual. }}{\text { Perennial. }}$ |
|  | Triticum repens.... | Foxtail. | Annual, |
|  | Panicum Crus-galli,... |  | .". |
|  | A. capena fatua | w |  |

List of Principal Fairs to be Held in Canada, 1893.

| Association. | Place of Fair. | Dates. |
| :---: | :---: | :---: |
| Industrial Exhibition | Tor |  |
| Stanstead Live Stock Ass'n... | Stanstead, Que.. |  |
| Prince Edward County A. S... |  | 12and 13 |
| I, anark Horticultural Society. | Lanark | ./ 14and 15 |
| Wellesley \& North East Hope. | Wellesley | " 19and 20 |
| South Renfrew |  | ". ${ }^{\text {c }}$ 19and 20 |
| ntral Exhibition. | (ex | -، $19.100^{21}$ |
| uth Lanark Fair |  | 19 to 21 |
| Bay of Quinte District Ex |  | 19 to 22 |
| ey Agricult |  |  |
| roy Agric | wa | ${ }^{2} 2$ to 30 |
| ral Exhil | Peterbo | 25 to 27 |
| Co Union | St. Catharin | 25 to 27 |
|  | Kingston | ".25 <br> 26and 29 |
| Riding of Oxf | Milve | " |
| South Grey Exhibition ...... |  |  |
| Centre Bruce Exhibitio |  |  |
| brooke Agr. | Maberly |  |
| Southern Fair |  | ${ }_{26}^{26}$ to 28 |
| Great Northern Exhibition | Colling wood | 26 to 29 |
|  | Lindsay | .. |
| and Brom |  |  |
| nty of Peel Agr. | Brampton | 28 and 29 |
| ham Agricultu | Tilsonburg | 㥒8 and 29 |
|  | McDonal | - 29 |
| hide Agr. Societ) |  | Oct. |
| Haldimand County fair | Taris |  |
| Arthur Tp. Union Exhibition. |  |  |
| enson Agr. So | Utter |  |
| th Simcoe Fair | Stayner | .، 3 to |
| th Lanark | Chatha | -. 3 |
| $t$ Riding of $Y$ | Ma | .. |
| tre Wellin | ${ }_{\text {Elor }}^{\text {Elo }}$ | 6 |
| orw | Seater |  |
| East Kent Agricul | Thamessille. | .. $\quad 6$ |
| York and Vaughan A. s. | Woodbridge |  |
| Norfolk Cnion Fair | Sin |  |


Mhas be as complete ass possible.
Hoard's Dairyman:-"Milk is improved fo cheese-making by being run through a separator without abstraction of the fat, and, with very rich milk, we are not sure that it would very materially pounds of milk were taken out." The good effect of running the milk through the separator is in cause deleterious effects to the flavor and texture

QUESTIONS AND ANSWERS




Veterinary.

$$
\begin{aligned}
& \text { ANSWERED by W. A. DUNbAR, } \mathbb{N} \text {. s., } \\
& \text { stone in the bladder. }
\end{aligned}
$$

George Stewart, Moosomin, Assa :-"I have GEORGE STEWART, Moosomin, Assa.:-"I have
a mare that had a foal this spring. Lately I have
noticed she has a difficulty in her water. She i constantly dribbling; it is unaccompanied apconstantly with pain. She has also a difficulty in eating or swallowing. Seems anxious enough for
food, but will chew it a little while and drop it from food, but will chew it a little while and drop it from
her mouth. I thought her teeth were the cause her mouth. I thought her teeth were the cause, He gave me some powders for her water, but there
is little improvement yet. She is fast losing flesh is little improvement yet. She is fast losing flesh,
and, as I am anxious to discover the cause of her trouble, I apply to you. I might add that afte trouble, apply her coat stares very badly. I enclose a
drinking her
stamped envelope for reply if you consider the stamped envelope for reply, if you consider th
case urgent enough for a reply in that way." case urgent enough for a reply in that way."
Incontinuance of urine in the mare is usually a marked symptom of cystic calculus-stone in the
bladder. To find out if that is the ailment, you bladder. To find out if that is the ailment, you
will, immediately after the mare urinates, empty out the rectum by giving an injection of warm
water or with the oiled hand; then introduce the hand into the rectum until it reaches the front of the pelvis; feel downward and backward for the madter, and if it contains a stone or other foreign removal of a stone from the bladder of a mare is a simple operation, and, when carefully performed, sary that the operator have a sufficiont anatomical knowledge of the parts, and be provided with the proper instruments. With all due respect to the that a thorough examination of the mouth, especi ally of the teeth, will reveal the cause of you
mare's partial inability to masticate and swallow
B. Ruthwell, of Melfort, Sask., enquires for a
ure for a lump jaw, and also asks if it is a contagious disease. (urtinomycosis) was fully describe and the now generally accepted cure given in the of recent subscribers we repeat in part :-1t is not infectious nor very contayious; the remedy is
iodide of potassium, and the dose for a mature
for a week, and afterwards one drachm twice a day
for one or two weeks. The medicine may be given in bran mash. pog distemper.
Thos. UERRard, Shellmouth, Man. :-"I have a spaniel dog who, when young, had a bad atwith humor in his eyes and soreness and itching in his ears. Last year about this time his feet got his ears. Last year about this time his feet got now again his feet are so sore that I fear he will be
nseless for the season's sport unless speedily renseless for the season's sport unless
lieved. What is best to do for him?" Give your dog the following purgative dose :-
Barbadoes aloes and ginger, of each eight When six grains; soap sufficient to form a pill. nden the purgative has operated, give, morning ond evening for ten days. dissolved in milk, sulphate water and apply to them, every alternate day, the ollowing liniment: Solution of potassium, half an ounce: olive oil, three ounces; creasote, two principally on porridge and milk.
answered by dr. mole, m. r. c. v. s., toronto.
M. A. Ryan, Sault Ste. Marie, Ont,: "I have a
cow six years of age, recently purchased, when I milk her there appears a thin streak of ropy maerial the color of blood; she appears good and
healthy every other way. I would feel obliged if you would kindly advise me what to do for her, and nail."
We so very lately went into the subject of symptoms again. This torm, as seen in your cow, is a modification of the acute stage, and most proale: this will overstocking the udder at the time of of the symptoms. A camphorated liniment, composed of tincture of camphor 1 part, and glycerine parts, well rubbed into the gland night and every three hours will afford relief.
T. E. Humphrey, Dixville, Que.: "I am havare about ten weeks old, and I have fed them on kim milk altogether, nothing else, not even to the
butter milk. I found one of them lame in front and the next morning he was lame both fore and
hind legs and could not walk: then the ot her seemed to be lame all round. One of them died, and I am looking for the others togo very shortly. They do not seem to he in any pain; do not purge
or make any fuss. Can you give me any idea how
$\begin{gathered}\text { There is no doubt that your little pigs are dying }\end{gathered} \left\lvert\, \begin{aligned} & \text { the root, and there they } \\ & \text { brood appearing in spring. Thain all winter. the }\end{aligned}\right.$ by means of infected milk. You will probalily have had a cow suffering froun Nammitis, or garget
of the udder, and her milk has been used for these pigs, thus causing their deaths. In such cases the milk should be scalded or boiled before being used. A. H. Good, Toronto :-"I have colt that has been in an unhealthy state for some time. He drinks naturally and swallows water without difficulty, but seems to exist wholly on the uices of grass or hay, for the fodder, atterchewing,
is thrown out in pellets. Can you advise me any practical cure for him."
On receipt of this enquiry I made a personal investe not shed, which interfered with the proper mastication of the food, and the coarser portions were accordingly rejected. Rem
will no doubt bring about recovery.
E. A. Garnharg writes use concerning ewes which became swollen, hot and painful. In some cases the trouble was relieved by rubbing with castor oil, which failed to give good results in One bad case is described as follows :-‘A About July 1st I noticed one of my ewes not feeling will, and, upon examination, found one side of her bag badly fused to let her lambs suck. I milked her out dry, and the next morning It tried her again and could get nothing but a little yellowish water from the
swollen side; oil was applied, but to no effect ; the bag continued to swell until the belly was swollen nearly to the forelegs, the bag becoming purple on the affected side. I was applying a mixture of
linseed oil, camphor, turpentine and coal oill in about one week the swelling began to abate, and, come purple dropped off, leaving a very angry, raw
place. Turpentine and carbolic acid was used, which kept the flies off but did not heal the sore, but gave it a gangrenous appearance. I have since vitriol water, but the sheep is far from heing well yet. There have been several cases similar to the above in the neighborhood. What was the procure? Also the proper treatment of the above case? Where can I procure the best veterinary work, in your o.
The disease is common among ewes, and with a little timely treatment of the proper kind is easily re-noved. teats, causes are blows on the glands, sores bag, standing in a cold current of air, exposure to cold showers or inclement weather, rich milking ood too sudcenly supphed, incigestion, or, indeed, produce this disease in an animal in full milk. The July 15 th issue of the ADVOC.TE gave treatment of quantity, will answer very well. The proper treatment for ewe with gangrene would be to keep her
in a darkened shed, a way from the flies; ; give the in a darkened shed, away from the flies; give the
alterative powers; wash the affected part with alterative powers; wash the affected part with
warm soft water, with castile soap and a few drops of carbolic acid every morning, and apply carbolized oil one part carbolic acid to twenty-five of raw lin-
seed oill. The treattuent used by Mr. Garnham has been of too strong a character, and has hada tendency to increase the trouble rather than diminish it. "The Farmer's Yeterinary Adviser," by Law (price, *3),
would doubtless answer your purpose. You may would doubtless answer
order it fromn this office.

## ENTOMOLOGY.

Hessian Fly, Joint Worm and Autumn Web Worm Aisimong the most destructive pests that have Feveral letters. The Autumul which we have had
 The II, ws sian Flv is Oinsect. the teliof tromphich to treeives its igenous





rood appearing in spring. There is a second brood
n the spring which attacks the stalk, where the nsect is most generaly noticed. Farmers hardy who has observed it has seen it on the stalk. It attacks the stem just above the first or second loint eaves. The larve vary in color at different periods of their existence, being very pale at first,
but afterwards of a deep chestnut color. Their first but afterwards of a deep chestnut color. Their first
attack is made when the stalk is very tender and green, and they puncture it to extract the sap, the results being to cause a small depression, where the larve remain. There may be five or six encircling
a single stalk at one time, and the result of tleeir combined efforts is to weaken and finally to it, causing it to fall down, thus ruining the grain. An the stalk, it assumes what is called the "flax upon the stalk, it assumes what is cialed ane general appearance a grain of the ordinary flax seed. In
this state it continues for a considerable period this state it continues for a considerable pero while in this condition. It is a much discussed point as to what this "flax seed" stage exactly is. it is looke being so different from the form common produced, bects, has not been determined upon by
among inser
entomologists, some thinking that the "flax seed " entomolocists, some thinking that the "flax seed
covering is the pupa stage, and others that it is an covering is tro pupa stage, and others hat attacks the stalk solely, never the ear
Every successful wheat grower will readily
admit that one of the most effectual preventatives of the ravages of wheat insects is a rich soil, thoroughly tilled. It invariably happens that the crop is most seriously injured on lands that have been
carelessly tilled, and have become impoverished by an exhaustive course of cropping.
Prof. Cook, of the Michigan Agricultural College, states that when the season approaches the flies
will lay their eggs upon the first suitable plant they can find, and recommends sowing a narrow strip of wheat around each field in August, or early in Sowing the wheat from which the crop is to be obtained. By this means the wheat sown in the strip will make its appearance first, and most of period it should be plowed in very deeply, that the eggs may be destroyed and the later wheat then
sowed. The outer strip may then be included also This method, if successfully carried out, will destroy the fly and protect the wheat at the same time.
Hardy varieties that tiller out well are able to with stand backsets of any kind. The use of lime, soot Joint Worm.-Thended
since our recollection that the effects of the Joint Worm have not been visible in the grain fields, but
up till quite recent years the damage has been so up till quite recent years the damage has been so
limited that there has been little cause for alarm o the cereal grower.


The maggot of this insect is but little more than one-eighth of an inch long, and of a pale yellow situated in the internal substance of the stem of the affected plant, usually but a short distance outer surface of the stem being elevated in a when, as is generally the case, from three to ten of whole forms a woody enlargement, honey combed
by cells, and is in reality a many-celled gall. In ach of the gails can be seen little pinhole aurifices,
through which the flies passed when the Joint Worns have escaped. At first these little knotty
wellings of the stem are apt swellings of the stem are apt to elude observation,
because of being almost always situated just above popular name "Joint Worms". They are enwrapped and hidden by the sheath of the blade but on conspicuous objects.
The mode in which the Joint Worm pooluces it
testructive effects mpon sall ghe




## 1

namer the female fly proceeds to lay her eggs in stubble and burning it is the most effectual remedy yet discovered
Fall Web
"tents" upon fruit and The appearance of wehs or and in early autumn has caused many to suppose There was a second brood of the tent caterpillar.
These late webs belong to a very different insect, which lays her eggs in a cluster upon a leaf near the end of a twig, and the young caterpillars, like
those of true tent makers, begin to spin as soon as those of true tent makers, begin to spin as soon as
hatched, and as they feed and spin in company, the webformed by theirunited efforts soon becomesconspicuous. The worms descend the branches,
devouring the pulpy portions of the leaves upon them, and form a web as they go. When they to the ground, where,
just beneath the sur-
 ace, they enter the pupa state; the next
summer they issue as
pure white moths to lay eggs for another
brood. The worm or caterpillar is of a pare
or yellow color, with a broad, dusky, strithe
along the back, and a
yellow stripe have nus whitish hairs. While the they Web Worm often attacks the apple and other fruit trees, it does not confine itself to the orchard, kinds of trees, as well as on shrubs and flowers The only remedy is to destroy the web wherever it may be seen, and as the worms ne
We would advise our readers not to neglect to destroy all the webs and worms that appear on save the tree that is now suffering, but next year's web worms will thereby be very materially a pair of The task is easily performed by hand Care should be taken to destroy every insect; where the web has not grown so as to envelop large limbs, it is a good plan to carefully cut close, some may easily be missed when destroying close, so
the web.

The Clover Hay Worm.
Tne Rev. Dr. Wild recently called at our office
to make inquiries concenning a small worm which was damaging his hay. From the description given we had no hesitation in pronouncing it the clover hay worm, A sopia costous; since that time
we have been informed that this insect caused a large amount of loss last season across the line. It is not a new pest-it has been known in this country for years, but has never done serious
damage, owing to the general practice of cleaning out the hay mows in the spring, thus leaving nothing for the insects to live on : but in places
where hay is kept over in large quantities they are often very destructive. The parent of this pest is one of our prettiest
moths. It is not active during the day except in moths. It is not active during the day except in
cloudy weather, but towards evening it is often finds its way into our dwellings.
The moth with wings outspread measures about wings are of a reddish or purplish-hrown hue, with a greyish tint over all and a silky gloss. Near the front there are two large, bright, yellow,
golden spots. The hind wings are lighter in color, but both are margined with a deep orange, and fringed with golden vellow. The markings on larva is shown by figures one and two, the same enclosed in its silken web by seven, the cocoon by hree, the chrysalis by four, and the perfect insect


The exgs are latid on the clover stalk, or in any he cres and openings of the stack or mow; The fuli-grown larva measures nearly three-
narters of an inch in length, is much wrinkled, mooth shining dots, each giving rise to fine,
whitinh hair. The voung larve are paler in color,
-
THE FARMER'S ADVOCATE.

looks like butter, that is to say, bogus hutter.
the next paragraph the pretence is set up that

## There has been a lull in thets.

 Western Onteen a dull in the cheese markets inveeks. The first durin the last two or three pretty yood time, at prices ranging from 98 to ti But since these were disposed of some new factors have developed in the trade, which, in the opinion
of factorymen, will have the effiect of stimulating the price of cheese and lessening the stock on hand. The extremely dry weather, which has been
 doubt decreased the production very materially. In Western Ontario there is a shrinkage of at least
one-third in the amount of milk received at the factories. The extreme drought haseivo sed sererely affected the pastures that cows have hardly enough feed to keep them alive, let alone supplying milk
or cheese-making The horn-fly has also teen an for cheese-making. The horn-fy has also heen an
mportant factor in lessening the flow of milk. This pest is so common, and its effects so serious, that airymen every where are asking for remedies
The drought in Great Britain has suriously re The drought in Great Britain has seriously re be a much more eimportant factor in strengthening the cheese market in this country than anything
else. The factory men consequently are holding perhaps not unwisely, for higher prices. There were no sales at Loondon cheese market for two narkets-a thing that has not occured before
dozen years. The prices offered were not as
hish last market as the one previous. Although most
of the salesmen are holding for 9 A of the salesmen are holding fors 9. , a great many
of them would dispose of the remainder of July's at 93. The buyers were not willing to go that for July's, and appear to be holding back for August's.
It is not a good plan to hold the make of oue it is not a good plan to hold the make of one
month till the cheese of the following are offered, as the new goods take the lead and crowd the others out of the market. The buyers, on the other
hand, claim that they are offering the outside limit hand, claim that they are ofrerring the outside limit.
for cheese, and that orders are coning in slowly.
The silver question and the condition of the
ioney market across the lines has had the effect Honey market across the lines has had the effect of varying the rate of exchange with Europe,
Buyers claim this to be so serious as to lower the
rice of hehese here price of cheese here bof a cent per ib. This means
that if the money dificulty had not occurred, ins 91 and $9 \hat{i}$ for cheese. This is a serious difficulty and will counteract the stimulating effect that the hortage i
fall toods.

Preparing Cheese and Butter for the Exhibitions
The fall exhinitions will son the here, and parties who pride themselves in the excellency of
their products will be getting them ready for display. Too much antention cannot be given to
having exhibits, and especially butter and cheese,
done up as neatly and cleanly as possible. No done up as neatly and cleanly as possible. No
matter how good the quality of the goods shown is, if taste and neatness have not been shown in arranging the exhibit, the chances are that instead
of the second or third rank.
People very often say: If the quality is all right.
the greasy cloth around the lutter or the roum the greasy cloth around ed out the cheese should not prevent it trough taking a first place.c. Cheese and butter rate jurged
upon their market value and neatness, cleanliness upon their market value and neatness, cleanliness
and good taste an in important factor in determining and good taste an important factor in determining
what an triticle is worth in the com mercial world.
All exhibititions are object lessons, land the All exhibitions are ohbect lessons, and the
neater and more merestatallean obiect on enhibition is the more distinction does it bring the exhib-
itor. We had the pleasure while in (hicago of examining a few of the cheese for the July con-
petition from the States of Wisconsin and New petition from the States of Wisconsin and Ne
York: while some of the exhibitso were neat an tasty, others were almost unpresentatle. In some cases it was surpriving how dairymen could. end
cheese of such nusighty appearance to an ordinary
chen exhibiton, tion will profit by giving attention to the following notes:(1.) Have both the butter and cheese ats fine in
(uatity as they cand emande.
(2, I) Io not send a cheese unless it is perfectly syminetrical and straight, without any project ing edgee or Puthe the checese in strong, well-mad, boxecs.
with coners that will fit on without nailing, if posib) Co comliness should be particularly noted in

 seanone the, Neatre
 coat of sall.
fitting ilid.




The thre The Champion Cows. Cheese conteest chatpion cows in the worlds Fair were the Jensey days Ida Marigold, owned by Mr. Sweet, of Buffialo
credited with 70.92 lbs. cheese at ant $\$ 8.97$; the Shorthorn, Nora, owned by Sheehan id

 of $5,5,2$.

## Improving the Quality of Milk

S. S. .awrason, st. George, Ont: "Is it no the amount of butcerfat ocontained in mine mis
have noticed a statement, ly an ariculthre fessor, to the effect that it could not be done, but 1 am satisfied that I can so feed my cows as to
accomplish that result. and would like to have accomplish that reselt. and would like to have
the question answered through the F.JRMER's Ass.-This subject was very fully dealt with in our issue of Aprillith, but beng a new sumscribe
since then, Mr. Lawnso
 general rule, we believe his contention to be quite
correct, thought, under certain conditions, an in creased fat percentage may not follow an increase in the grain fed a cow. At the Vermont Experi-
ment Station it was found, in feeding the wast. products of cons, that a richer milk was produced orado Station wheat bran increased the fat per centage. The Babcock and other tests have brought to light-numerous instances where, by the
indicious use of certain foods, dairy farmers have improved the quality of the milk produced by their herds. It has been commonly understood that a cow has what is styled a "normal capacity" "of fat
production, up to which good care and a full and proper ration will bring her, though beyond that
 reached that point? That one cow can be made to give as rich milk as another is doubtless not possi-
Wle. Farmers must. therefore, breed for tuality ai weil as uluantity. The Babcock test is forcing

Dairy Notes.
The Breeders' Gazete states that the death los


A writer in Hoard's Diairyman gives his experience with long and short ensilage He says:
Last year his cutter, that was geareit to cut it halfhnch, went wrong, and a sulstitute had to be used
that would cut 1 inches as the shortest lenst the result was to convince him that he haid better wait a hansiderabe cer erth or thille and continue
with a half-inch cutter rather than finish the filling with ensitage teyond that tength. When the short ensilage was arrivel at, the character was difterent
and for the better. With the long cut there wils a picking over of the silage and mincing by the cows pieces were left tantil the last, and a areat deal Iore time was used in picking out the short piecess,
insteal of a mapid eat ing of ration which onec likes
 distributor, needs little attention when filling,
while the it wanted directing to its proper plice every once in a while.

## POULTRY

Poultry on the Farm

for six weeks or so, in pans, on a shelf is her dry
cellir. Had she but used an egg-case, she would sidered as probably the best method of preserva-
tion. If I were sending mine abroad, should, tike many poulterers, writo on each egg, as gathered
the date. Then the commission man could warke seasonably, their history would be known, and the oldest might be used first. An egg having been subjected to such heat in biddy's interior does no
beat up so stiftly nor cook as well till cooled, no epicures say is in its prime from one to three day old. If necessary to use those just laid, first in
merse them in cold water awhile. Those kept teo warm a place and grown a little state will b cooled, freshened and made less refractory, if pinch of salt is put in the whites when beaten. A eggs are then hor cookirg, considerabe whit finger. Cooks who have measured say the amount of one egg may thus be wasted out of every dozen.
A teunperature of $60^{\circ}$ is often stored eggs, but a few degrees above or below do no harm. Mine are put summers in a store-roon Which has an ice-hox adjoining. According to of room runs from (6i' to $75^{\circ}$. A valuable Houdan hen took to laying in our barn one cold February though some of her eggs hecame quite chilled before chicks. From my own experience, the effect of an cold ahove freezing is less dreaded than that of hea Con havor ad ers averige the largest and heaviest all, quite defying competition from warmer countries. There are some disadvantages in living nea must be ans sutly change, be often hindered, and, though usually ap preciated, do occasionally meet one like a lad who asked me whether they would not come cheaper
he took ten dozens. I think I convinced him that to let any one person have so many guaranteed
strietly fresh eggs would be a great favor on my part. summer is because that season is so faverabere fo laying, and more are sent to market, but their cheapness is no reason why summer eggs sho c their number increased, but the cost is lessened, so There is both a saving on the umantity of focd and in the time reonired from the manarer an how self-helpful our biddies are on their grass runs, contrasted with their hepless condition im prisoling gruin to create animal heat. now we are lendiug our bushes and shade trees to keep them cool. Whenerer we compare the cost of produc
tion with the price received, we shall find poultry yielding more in proportion to capital invested tha any other branch of farming gives. There can be still iorport egrs, hut I believe if peate werglan still import eggs,
sure of buying good ones and always getting their money's worth, they would eat more eggs and ex take what coumes, we must go after somenthing be sides. Let us as poulterers study to make this a Lwe ve- months-a-year business, each month yield ing its profit and pleasure. Summer eggs hav
the advantage of very yellow yelks, which is ofte noticed in comparing preserved with winter's fresh colloring os. Grass and green foods contain the curiume as into a cow's butter. Let us be carefully curing and saving fine, succulent clover and lawn
clippings, and on the lookout for a vegetable Supply imes before it ought to have beon and or thre make no $p$ lians for the future seldom bestow much
attention on even the present attention on ever

Poultry Yard Notes
From this time forward, as the growing stock is should give them special attention. At no time can He to crur growing chickens so much good as while
they are progressing from the ages of two or three mystematic care and judicious feeding. If they have a good roomy range in field or pasture, they will amony the grass and herbage ad insent to the runs anmp pens. If we are obliged to keep them penned I4) or confined to lesser space, then these things imys be suppliecto then as acundanty as pestine art ificially. They must have plenty of green food
or hay will not hlivive satisfactorily. This ran be funnix hied in the shape of sods thrown to them
daily. or the lawn-trimmings may similurly be Caily, (ir the lawn-trimmings may similarly be
giveri thenl with advantage. Freshly cut Erass, Mrnip-10ps, surplus yrean corn, chopped turnips and onins. all are excellent in their way, and one or the othr of these will be in season in spring.
munnucr and antumn. A little cooked coarse meatit sunncernimal feen of chandler's scraps., etco. wivid aich and all supply a needed want if the birds
harve ion place to roan in. But the ..green food
 the ahbulute importance of thisprovision.

## VETERINARY

## Dentition and Dental Diseases of Farm

 Animals.by dr. Mole, M. R. C. V. S., Torosio, ont.
In order that yeterinarians and judges of stock may be in a position to deride as to the age of any invaluable.
A breeder's certificate would afford the most exactitudein recording the birth were practiced, bu the failing to note time and exact date of birth is nherent in the ordinary farmer. He generally in the family just about the same time, and so evi dence of a certificate is often more calculated to becomes necessary to supplement or correct the exhibitor's certificate by such evidence as the ani mal itself affords, and by common consent the are accepted as indication of age only second in value to positive proof of the date of the animal's
hirth. Weshall not describe minutely the anatomical irth. We shall not describe minutely the anatomica
structures that make up the teeth, but only those parts that are necessary to understand the subject. The cheeks or sides of the mouth are ined with uccal glandsh pour their secretions we may dis tinguish the opening of the parotid duct, gener-
ally about opposite the third molar tooth which or deglutition orswallowing. it also sacts checessary on the starchy matter, and is the largest gland o he mouth.
is thick, and in the cow and sheep is known as the dental pad; it causes that particular condition nown as "lampass" in horses, which is due to a That portion which is attached to the hard palate, from which a number of grooves or ridges run in a
direction outwards, is termed the "hars." Occupying the outer margin of the roof and floor of the mouth we see the teeth. These are products of mucous membrane, and by some anatomists con-
sidered bones. One material difference between bone and the teeth is : that the latter bear exposure and friction with impunity, while the former can are also much harder than bone and, further, fixed in cavities, which are surrounded by the gums. They vary in number in different animals, and in size re termed compound ; in Carnivora, where tearing is requisite, the molars are sharp and pointed and in min they are mixed, and in all the lower aniThey present three parts: A fang, that part en-
closed in the alveolar cavity ; crown or table, that part ineloped: on inspection after the terg the fang and the crown, to which the gum is attached. Teeth are composed of three substances :-Dentutes the major part the tooth, and is of a yellowish substance, -best seen in the elephant, when it assumes the form of the well-known tusks of ivory.
Enamel, the second tooth material, crusts over Enamel, the second tooth material, crusts over
the dentine of the body and dips into the cavities of the tables; it is known by its pearly whiteness,
and is the hardest animal texture known. and is the hardest animal texture known. and dips
(rusta petrosa is externally placed, and
into the enamel plates of the table; it is of a yellowish brown color, and is the softest dental structure. The upper surface of the tooth generally presents
one or more depressions, the infundibulium, into one or more depressions, of substance of which the
which dip the three layers
twoth is composed. When a tooth is wholly covered on its external surface with enamel, it is termed a simple tooth: all other teeth are compound. Thus the milk or temporary teeth, and the the
dog, are termed simple teeth; they are named, or incisors.
For convenience of description teeth are divided,
atcording to their situation in the mouth, into atcording to their situation in the mouth, into
four sets: incisors, canines, pre-molars and molars.
Ungulate mammals-that is, hoof-shaped animals without exception, have on each side above and
below three incisors, one canine, for
and three molars: that is, eleveh on each ride above ind eleven below, or forty-four altogether. The
modern horse, as you must know, ha, only forty: the fron
helow.
The
present they are recognized as the simple repre-
sentatives of those organs, which in other animals render the teeth an unhroken curve: they generally
disappear when the shedding of the molars takes disappear when the shedding of the molars takes
place. place.
Dentition covers that period which the young
animal takes in cutting its teeth from birth to the age of five years, and there is a relative period of be cutting teeth until the are of fourteen, and the evolution of the molar teeth does not usually take ment, which will be at the age of fourteen: six times that period will make the arge eighty-four. and is limited to a single act of reproduction in the
case of the ordinary milk teeth, and to a double one in that of the permanent molars. The process
of budding then ceases in man. In many animals of budding then ceases in man. In many animals
of the lower class the process goes on through the whole life without any limit. By a process of this Kind the continual renewal of the teeth takes place, the new cells are constantly being secreted, and
thus at its bease, which compensates for its usual wear at
its crown or summit. If anything should prevent it crown or summit. If anything should prevent
that wear, as when the opposite tooth decays or is that wear, as when the opposite of there is an atholute increase in the
broken off, ength of the tooth, from the continued growth at
its base, and it becones a source of inconvenience to the animal.
the
The horse takes four years to develop its teeth,
and may live six or seven times its age of development say twenty to thirty, the average being records of horses living to sixty-five. But we are of he opinion is no doubt that mares live longer than horses. The same fact is noticed in the human
race, where women live longer than men. Those animals that do not attaing maturity until six or even years of age may live to twenty and st "W have kept a record of many, and the history of the 1874, died Mr. Joseph Kaye's well-known roan horse, Paramatta. Three owners possessed this had him for a like term, and the third, had owned him nineteen years, when, he died; this makes a
period of fifty-three years. Old Paramatta was ble to do little jobs quate up to the last years of The heavy dranght horse, which attains this at ten or t weelve.
Examples of horses at thirty, thirty-six, or forty Examples of horses at thirty, thirty-six, or forty,
woiuld not be so rare if the tyranny, hard usage would not be so rare if the tyrany, hard usage did not aid greatly to shorten their lives. days it is sold from stable to stable, goes rapilly harder work on less nourishing food, until completely used up and depreciated to the value of the
hide at the bone yard; whilst a kind, humane owner will work and keep his horse well and fit for years, doing a vast amount of work- so that "used up" has
become the horse term for "aged" in man. matter to distinguish at sight the very young from the adult animal, and the middle-aged horse from a very old anima. There are many signs that will
indicate an aged animal. white hairs commence to
show around the temple, around the eyes and nostrils, if the color be dark, while the grey, roan In addition to the teeth, there are many signs not usually known -points of great value, but none com-
pare in exactness to the apparance of the teet pare in exactness to the appearance of the teeth.
The Arabs consider that if the skin on the forehead below the forelock is elastic and returns to its original position rapidly, becoming perfectly
smooth, the animal will make a good horse: if no wrinkle, is left theanimal is young; if the skin remains
wrinkled, it is old and worthless. Another old fashioned method was to determine the age by distinctly at the base of the tail when the horse has attained thirteen years of age: in two years later
they become more prominent they have behind a they become nore prom. At sixteen a second pair
distinct title depression.
of knots are found, which, like the first, in about two years have behind them a distinct depression,
but there is no practical value in these appearances,
for is to determine them.
Anyone who has been accustomed to examin the mouth he must extend his ideas and adapt him-
find that
self to new conditions when called upon to judge of self to new conditions when cialled upon to judge of
the age of a horse from another region, as no two horses mouths presentexactly the same characters.
If a horse's moth presents exacty the period of
its age. or a certain number of years of growth, we say that it is so many years, if it has not quite
attained the age, we then decribe it is rising to the year: if it han passed the period, and has mot
attaned the harking of another year, we say so The natydaldsision of the two perious of age as
 dentition. Lhe levelling of these teeth and therir pro
nemed. Then
nese.

3rd. The period of the falling out of the milk
teeth, and the appearance of the permanent ones: the levelling of these later.
thi. The successive forms which these tables present as the teet tr wear away. There are few in this contry who have ever seen
a horse with a bishoped mouth, as it is a method employed by gypsies and low horse chaunters to
alter the appearance of the incisors, which can ouly deceive those who are entirely ignorant of to te teeth
of the horses month, and is not likely to deceive of the horse's mouth, and is not likely to deceive
anyone familiar with the anatomy of the subject The operation is dignified by the term ". bishoping from the name of its inventor. To make the opera be often performed. The method is as follows:The crowns of the incisors of the young animals are wide from side to side, the dental tables are
modified as the animal becomes older, and become successively oval and triangular; in the centre of the table the dental star appears. "bishoping" consists in giving to the table an artificial cup of a dark
color. The teeth are usually filed even, each table is then gouged out until concave: the new cup is then
blackened by nitrate of silver, or by a point of hot iron. It may readily be recognized by careful examination : the file marks are invariably left, and
the artifici in front of the remains of the real mark surrounded by the enamel; the tusks are
point. which is an unatural shape.
For all the arts of deeeption the practice of we have not seen a case since we were in "dear ould Ireland." There in almost every horse fair one or two specimens of an ancient race may be seen,
decked out in ribbons, tail braided, and mane plaited as only an Irishman can do it ;' with a fig of
ginger, and a liberal cracking of the whip, an old animal is made to look so that its own mother would never recognize him. They generally cenl
attention to the black mark in the corner tooth.
We well remember the tale told by We well remember the tale told by one of the ancient
and fast disappearing class of horse chaunters:and fast disappearing class of horse chaunters:-
"Sure, and yer Honor is a good judge of a beast; he is a foine leaper, and ee's young. Sure, and your
Honor knows that when a horse has the mark on Honor knows that when a horse has the mark on
his tooth, he can't be more than five years old."
"Nor less than fifteen, when it is placed there by "Nor less than fifteen, when it is placed there by
"uldoon of Armagh," was our reply. There is also
. another method of deception, practised there, and ing out the temporal fosse above the eyes with air,
but is only very temporary, and sometimes leads to very dangerous results.
The enamel of the teeth is hard, brittle and
readily fractured; is protected by two layers of crusta petrosa, os that in wearing it alwo was presents layer's trowel, which is, as most mechanics know, two layers of iron enclosing a layer of steel in the
centre. For cutting bricks iron would be too soft centre. For cutting bricks iron wo so too soft
and steel would be too brittle, so, in order to protect the steel a layer of soft iron is placed each
side. That is as nearly like the composition of side. That is as nearly like the composition of
the teeth of the horse as possible, only that we see we have six layers composed of three different sulstances crusta petrosa, dentine and enamel. In the manently in the molars, the temporary layer is


A firevearold permanent incisor will take on followed. At five years old the crown will be. seen
marked with the infundibulium, which is nosually ing the cavity: at years pisis over the crown


September 1, 1893

THE QUIET HOUR.

## The Starless Crown

They that turu nuany tot rinhteossumenos.anh.



 1 k nime ief hiow we journesed through the pathless felds of When tuddenly a change was wrought and I ruas clothctcc in
 To paread gion ugg yates or gistemng pari, vers
 And itiriterobeb saints, with glittering crowns, from evers

 Houricibewd before His trone orerioged that 1 nt tast
 Iknow thou hast believed on Me, and life through Mo is


 Iditadat mean that thon thouldet tread the way or iffo alone,
 The sigion fatad from my yight the voice no onger spated A horake, at last I gaved around in morrings glimmering
 That jet anomer hour mamine mon faith by yoksto sho



## Lonely Workers.

Many Christians have to endure the solitude of unnoticed labor. They are serving God in a way which is exceedingly useful, but workers are those little corners of the newspapers and magazines which describe their labor and success; yet some, who are doing what God will think a great deal more of at the last, never saw their names in print.
Yonder worker is plodding away in a little country Yonder worker is plodding away in a hout him; but he is doing his best to bring souls to God. Unknown to fame, the angels are acquainted with him, and a few precious ones whom he has led to Jesus know him well. Another has a little class in the Sunday-school; there is nothing striking either in her or in her class; nobody thinks of her as a very
remarkable worker; she is a flower that blooms remarkable worker; she is a fower that blooms almost unseen; but she is none is mentioned in the report as making so many is doing for the poor and needy, and how many are saved through her instrumentality. Hundreds of God's servants are
serving him without the encouragement of man's approving eye, yet they are not alone-the Father is with them.

The only failure that a man should fear is failure in cleaving to the purpose he sees to be best. A.
to just the amount of result he may see from his particular work - that's a tremendous uncertainty : the universe has not been arranged for the gratification of his feelings. As iong as a mansees and believes inr some great good, he ll prefer working
towards that in the way he's best fit for, come what may. (ieonge Eliot.

> Thtil the day's out and the lithor done
> Then bring your gauges. If the day's work
Why call it scant efteet no compromise.
And honor us with trath if not with praise

FAMILY CIRCLE.
My Wife's Son.


 this is a common dectaoler, dispassionateonlookers-who said
others beside mysself-cools.
the same thing. Our tastes were singularly congenial.
loved the same thing. Our tastes were singularly congenial.
loved books, about which we only diftered enoughto save ou
discussions from monotony reasons unable to indulge reatly in it were"tond of trave
We oved music, although goustance was the onl practical
musician. Her voice was a rich. powertul contralto high
. musician. Her voice was a rich, powerful contralto, high
cultirated, and with asmpatheticuanity which thriled one
heart in listening. What admired in my sweetheart was he
read heart in listening. What I admi
freedom from narrowness of soul.
Constance $W$ Wene
Constance Werner seemed literally incapable of small ore
petty actions she seemed to ive far anove the gossi, the
malice, the litite meannesses of our common human nature It was this, which after the frot our desperate "falling in love
lound me tor by the added ties of respect and honor. An bound me to her by the added ties of respect and honor. An
yet, ftter saying all this, day came of which eren now I can
not bear to think. We had a terrible misunderstanding; every

 who had always been the young girl's admiration, The ne
thing I heard-a year or so later-was Constances marriag
with with a promine
Henry
In St Starr.
ad cherished Inow that dream of my life was ${ }^{\text {over }}$ Inst Instead of travelling, as the wealthy do in sorrow, I was
obliged to work hard. It proved a tolerable panacea for heart
ache, and as years went on I accumulated a small fortune ache, and as years went on I accuñulated a small fortune. Mion
wants and expensee were few and I gave my whole attention
to my business, which was nothing more interesting than hard ta my bu
ware.
wo
were not
I knew a were not having its etfect on on dealing ing in this branct of it was fancy butr
I kuew an a fact that I was neither as sympathetic nor as kind
as I had as I had been. At first I did not mind this. What mattere
anything so long as 1 made a successof my business? It was all
there win

 thrust aside. Mn spite of myseif what such a man an, I though
ternined to mat of mesel somewhe
she would like. I did not come to this conclusion easily
rap she wo
rapidly,
work.
The There was so little that was noble or unusual in my charac
ter that it was harder for and weaknesses than for most people.
Itry well, but certainly the
trying was thow that that Iscoedod vory benefit than doing nothing. Some year trying was of more benefit than doing nothing. Some years
later 1 heard of Herry starrs death. Two years fron that
time I Inet Constance at our old home, which 1 had ong sinee
left. She and her only child were visiting her parents, and I left. She and her only child were visiting her par
my enerable great-ant- had no nearer relatives
We met, and in time the old trouble was We met, and in time the old trouble was explained and
found to be, after all, atrife exagerated by others. 1 mold
her how I had alwass loved her. Never mind what her how I had always loved her. Never mind what he told
me the towal ther husband, but I was quite
satisfied with her feelingst oward me. satisfied with her feelings toward med and we are actully to be married I I had to say it
over and aver to myself many times to comprehend it, and
over and
ever
 into my throat when 1 met her in the library just before we
wer to goown into the parrors, where the minister and a few
frie do were werends were to see us made one
friend 1 can see her now-this womm
I can see her now- this woman who was so much to me-as
she came to meet me arorss the pretty room she tam of a
tall and queenly presence, and carried herself superbly
 ful, with deep gray eyes, which could express more than any
other cyest ever.knew
"Constance," $I$ said, as I drew her toward me," can you trust me with so much?, as
Her steadfast eves me

 not feel? While the illusions of hope, if not gone, are at least
softened, here is a allm assurance a con iction that having
had evperiencs

 Whinch must be lacking to younger lovers. At least this is a
silitht glinpe into my own feelinge, as I stod that morning.
















 in his studies. It was after his graduation that I 1 ,
Constance to send him to college at my own expense. "Let me do this for Donald; I know he is ionging to go, and
then his own money can lie untouched, to be ready for him
when he is hrough his schol-dast" laid hardy liking to when he is through his school-days:" 1 said, hardly likin
meet my wifesclear gaze for fear she woud seee the eager
with which longed to have Donald wwa from home. A quick look of pain came into Constances eyes, and she
turnedaway But oniy for a moment... You are very kind,
he said. ©Donald must go somewhere to coolege, and I mhal she said. "Donald must go somewhere "o college, and I shai
all it over with him to nonght, and tell him of your generou
afer.

 The result of the conference bet ween mother and son was
that Donald prepared for college at once, and early in the fall
was admitted. was admitted.
Iflel like a boy after his departure. To have Constance to
ayself-to have my home freed from the only shadow it held nade me wildy happy. It tried to contro myself, so that Con
tance might not suspect the reason ; but, of course, any woman


 To me he was always quiet and courteous, yet we never cam
any nearer to each other than at firrt. I, gave him handsome
presents on certain holidays and anniversaries, for which Don
 too clever not to know that they served of a panace to a guify
conscience.
So the years, which have a way of slipping by so swiftl
and silently, went on with no unusual excitement, and with quiet happiness which is also unusual, I think. Comport ex
pressed the state of our lives Constance's and mine. While
 with no tepper. Her Her ilfe, though unevent ful, was full of in
terests not onnined within our home. She could talk with
on any subject, but while
he he yeneraly startled me with her original, fresh ideas on
different themes. She was keny interested in other peoppe
and while so. She had afew warm friend whom the dearl loved.
she was one those rare women who
sheold
keen easily, wathout being either a poor or careless housekeeper
She had a happy knack of managing servants, whogenerally
seemed to adore her. She was indulgent, yet knew where to draw the line. was surprised to find in my mail at the store a
One day I
letter addressed to me in Donalh's handwriting. While the

 don't tell mother where you are going, as I Ion't want he
worried. "Well, ", this must be serious! "What scrape has he tumble
int now I thought impatiently. "He need not be afraid o my telling his mother. Confound the boy, he could
chosen anore inconvenient time for me than now
Imade the best possible arrangements athe store for I made the best possible arrangements at the store for
short absence and huried home. pleaded business to Con-
tencee, but it was my first concealment from her, and though
 to his rooms an a pretty cottage near the coliege buildings.
ined voice answered my knock with . Come, and I entered.
Donald sat by the window, book in hand, but as and we sat down, and I saw his pale, anxious face, so different from the care-free one familia
tome. "Now tell me all about it," and I inwardly braced my
self to self "Thark thou, worst," said the young fellow warmly. "You
are very kind; 1 sha'n' a apologize for troubling you, and shall
 you wiil repeal
mission.. Idon't know whether I can do that." I said hesitatingly the lad's expression wast to his mothers.) I promised, and went
downcast eves Donald went on for any of the students to enter a saloon. Lately a small an here. The boys were most emphatically warned that one visit
there meant dismisal, or they would be expelled. A few
nimhts since several of the students-more in a spirit of lawless night shince, seseral or the students- moreen a spirit on spite
ness than a desire for drink ran off to this place. In all their caution some hint of it leaked out at the last momed
and two professors went in pursuit. The boys were warned in one of my hyndikerchiefs with my name written in mother
plain hand writing in one corner. I had lent tit to him one day at some entertainment where his was forgotten. He was more
friend of mine, and I Isee him but seldom as he sonhome soot free Iam the on
vet white those the of whom they have proof of guilt.
 As you know, Im a senior, and if this disgrae falls upon me
shal not be allowed to graduate
Een that is not the wort
 Aropped your handkerchief will not let you sufter for it?"
thiked in astonishment. "Well, he will, and does," said Donald.
"But hery on n. boy. ishall go and expo
not let tou suffer," 1burst forth.
".






SEPTEMBER 1, 1893
THE FARMER'S ADVOCATE.


UNCLE TOM'S DEPARTMENT My Dear Nkphews and Nieces:gone for another year. July has followed day by showers, and fields ready to be marvested. thunde saw the completing of its work, and now in Sep tember we hold our harvest home. Not; is it true, in the style of our forefathers, but keeping pace part of the ninteenth century. What changes may yet come before the century is ended 1 do not know. One man, Bellamy, wrote as if he lived
ahead of his time; but what he saw on "' Looking Backward" I think no one else will see fulfilled. Your Uncle Tom is no prophet, only an honest old practical, and, as the days go on to trust to b practical, and, as the days go on, to trust less and
less to the wonderful and strange things. True,
Mr. Stead, the editor of the "Review of Reviews," may believe in ghosts, may, by his process of he may be able to get the photographs of spirits and do other uncanny things, but the same power has not come to light in my experience. Away back among the tales of our great grandfathers
there were weird stories of ghosts, witches and fairies. One, braver than the others, tried to test all strange experiences, and found real causes. Once,
though, he was frightened when alone amid the though, he was frightened when alone amid the
darkness of the Scottish Highlands, when he saw darkness of the Scottish Highlands, when he saw
two flames, as it were, beforehim. Hedid not run, but gathering courage determined to find out the cause. They were the eyes of a deer at bay flaring in the
surrounding darkness. However, the wonderful discoveries of the last few years bid us older folks to scoff not, but to quietly await developments. We are on the eve of many changes-tho

Yet I doubt not, thro' the ages And the thousghtss of monen are widened
With the process of the suns."
How well I remember the old threshing day in my barefoot centre, plodded their weary way round and round and round. On the said centre was perched a box gusto, and gave "cuts" to the lazy or lagging horses, and with a voice sharpened by experience shouted " $G$ ' lang." The old machine cracked and buzzed, and ate the sheaves down, and rendered
out its golden grain often amid much calling out for grease-more grease. The machine was not first-rate, the straw carriers were not perfect, but to the small boy that was the greatest machine,
and threshing day the greatest one of all the year and threshing day the greatest one of and the year. with a scythe, and, although I was not born in the seventeenth century, I have seen the sickle used.
Slow old ways. you say, boys and girls; ves, but Slow old ways. you say, boys and girls; yes, but
in your faster days, with machinery and steam and electricity, see to it that you,

The heirs of all the ages,
In the foremost files of time,
make your lives so as to accomplish more each daymore and better than those now passing away tep from the path of truth, be it but a hair's breadth wide, is a weakness, that every step from the right path makes you less able for the work of life. Quit yourselves like brave men and wise
women; be strong, that the weak may take refuge behind you.

Prize for Selected Poetry
MORLEY SMITHSON, GREYSTOCK, ONT
William Wordsworth was born in 1770, and
olds a high position as a poet. His language is emarkably simple and commonplace. He was an enthusiastic lover of nature. His poems are marked The simpaticity, naturainess, and hise was spent in the lak district in Cumberland. On the death of Southey in 1843, he was appointed poet laureate. To a Skylark.
Ethereal minstrel! p pigrim of the sky !
Dost thou despise the earth where cars abound
Dost thou despise the earthre herert and eye
Or. while the wings asire. and
Both with thy nest upon the dewy ground?
Thy nest which thou canst drop into at will,
Those quivering wings composed, that music still!
To the last point of vision, and beyond,
Mount araing warbler! that love-prompted strain
(Twixt thee and thine a never-failing bond)
Mount daring warbiert never foiling bond)
(Twitt thee and thine a
Thrills not the less the boson of the phain.
Thrills not the less the boson of the plain.
Yet inightst tho seen, proud privilege t to sin
All independent of the leafy spring.
Leave to the nightingale her shady wood,
 Whence thou dost pour thpon the wirine
Of harmony, with int inct more divine.
Trpe of the wise who oart bun hever roan,
True to the kindred points of Heaven and Hom

[^0]I am the smallest part, the mighty whole,
Ising with streamst that sing in in uieter lands;
I rave with winds on seas that reel and roll,
I rave with winds on seas that reel and roll,
I loose or leash the tempests with my hands.
I ware my torch, and lo! the lightning's flare:
I speak, the thunder lions in their lair
Roar diapasons with the cyclones shock.
I am rude, ruddy health, and wan disease;
Dives and Lazarus are one with me;
I amese the lase that smite othe ethief that flees.
Utmost and undermost of sky and sea.
Strength of the strong, and weakness of the weak
I dare the soldier on to deeds of fame:
I dare the soldier on to deeds of famet
I am the death, the spht through battie reek;
and and the shame.
Child of my breast, I neither love nor hate; ;
With equal bliss and blight I dower thee :
I hold and hide the secret of thy fate;
1 slay or save, I bind or set thee free.
I ask no prayer; not mine the need of praise,
Ithindy grant the gift, wo wield the rod,
I am the slave of One unseen, who says
I am the stave of One unseen, who says
Womanhood.
All skilful hands in other days
The poets, priests, and premiers great,
Employed thir reaft indiers ways
To build for her a sent of er
Employed her crafs in dorers
To build for her a seat of state
ITory-white
And jewel bright
And jewel bright:
And all the wo did delared twasgood-
A throne was meet for womanhood.
But queens have left their thrones ere now-
Have dofted their crowns and said or proved
That royalty itself might bow,
And through the populace have move
To serve and pray
To serve and pray,
And go thir way thon
And none have hindered, thought they could
Is this the case with womanhood?
It seemed where'er I chose to roam
I saw to doay in every patace-
The busy mart and quiet home-
A being dowered with regal gr
At work with men,
Brain hand and pen
And this, somehohin anderstoo
Was thronedespising womanhood.
Alfred Tennyson was born in 1810, and has been Alrred rennyson consent the leading poet of the
fictorian age. He has shown entire devotion to the poetic art, and, at she same time, has been a
close observer of the life and pursuits of his fellow mese observer of the life and pursuits of his secluded home in the Isle of
men. Wight he has sent forth numerous highly-finished poems, distinguished for their grace, melody,
beauty and strength of thought, and for their pure and noble sentiments. Many of his beautiful lyrics have been set to music. On the death of Words worth in 1850 he was made poet laureate. In 1883 he was raised to the peerage as Baron Tennyson
D'Eyncourt. "Ring Out, Wild Bells" is from "/ In Memoriam," a series of elegiac lays written by Tennyson in memory of his friend Arthur Hallman.

Ring Out, Wild Bells. Ring out, wild bells, to the wild sky,
The fying clound the frosty lizht:
The year is dying in The year is dying in the night:
Ring out, wild bells, and let him die. Ring out the old, ring in the new,
Ping hapy bells. across the snow
The year is going, let him go
Ring out the false, ring in the true. Ring out the grief that saps the mind,
For those that here we sce no more Ring out the feud of rich and poor,
Ring in redress to all mankind. Ring out a slowly dying cause,
And ancient forms of party str Ring in the nobler modes of life,
With sweeter manners, purer law Ring out the want, the care, the sin,
The faithless coldness of the times Ring out. ring out my mournful rismes,
But ring the fuller minstrel in. Ring out false pride in place and blood.
The civic slander and the spite; Ring in the love of truth and right Ring out old shapes of foul disease,
Ritug out the narrowing lust of gold ;
Rine Ring out the thousand wars of gold,
Ring in the thousand year of peace. Ring in the valiant man and free,
The larger hart, the kind lier hand
Ring out he darkhess of the land. Puzzles.


 I am late. I know, my captain.




My first is "a harbor" where vessels and ships
May go and be safe from the storm. My second is left sure it iselff -undisturbed--
Even though the weather be warm.
My third is ", a rapid transition of notes
In music," my friends, so Im told.

5-Enigna.
have no tongue and yet I tal
Although my words are few
have no feet, I cannot walk
Yet run I can and do.
In figures I am posted well,
Ill point them out, theirn names
My face tou tell
My face You often on it gazes
In truth I Inever lifted one
But what $I$ told you when 't was done. C-Chapade.
"-iddy" Complete my consent
office rill be quite content
They made me a " middy" comple
But now FITST my office 1 Hll be quit
Ill try to do my duty well

There are so many clevere chasp, perhap
Whod fill the otice far better than I,
Whod dill the oficice far better than I,
If they only had the pluck to try.
--Conundrum (Not Original). How could this be? Two women were. standing at a door. As two men ap-
roached, theys aid: ." Here come our fathers, our children's proached, they said: Here -Decapitation
We are a band of puzzlers,
With a leader good and true
Trying in our noblest way
What great work we can do.
We love our puzzling totat.
And try, whater we do,
To please our dear old Ue Uncle Tom,
And to him always be true.
Persevere and succeed,
Our motto we prize so
Persevere and succeed,
Our motto we prize so dear,
For rit Frisst proved its value
In this, our puzzling sphere.
We'll welcome all new cousins,
Though they hail from distant places,
For aulare wey wame to compete peo. W. Blyth
In this great puzze race. 9-Charade.
I have a friend who, I am told,
Is fond of playing tricks;
He trind
He tried one josst the other night,
And most got in a fix.
Like me, my friend's a country lad,
And rooms at nineteen teny An thought he'd pinayaen aliten jo joke,
And spring it on the men.
Of course, you know, 'twas not at home This trick he tried to play.
But at a city boarding houes.
Where we are wont to stay
Into the secret he did let.
ENTIRE friend and I
He then put on a cowboy's hat,
And fixed up on the sly.
A false face then he did put on,
And slipped out the back way Unnoticed by the people who
On the portico held sway.
He came around, passed by them all
Right in the house went he.
A mant dashed attere him, nand th
The women yelled quite free.
A tramp! a burglar! catch the thief
What makes him act so queer?
Send for a cop! a lady cried
He has no business here.
Inside the house the fun went on
The man caught him, F m told.
They had a tussel in the dark,
He's got away, the slippery eel. Somebody strike a light!
Hembone down cellar, hurry, quick!
Alas! Hes out of sight. Out from their rooms the people came
'Twas after ten you knowSome only partly dressed; ha, ha.
Come out to see the show.
The search began, high up, low down.
They scattered far and wide, And hunted long, but found him not.
My friend had got outside. He changed his clothes and his cravat, Came, and asked the innocen
What might the tumult be.
Somehow the trick leaked out at last-
of course, jokes always will-It furnished gossip for a week ;
In fact, tis talked of still.
Some thought it was primeawfur trick,
While FiNALS thought 'twas fun ; While rivals thought twas
One lad got completely mad
And now my story's done. fair brother.
Answers to August ist Puzzles With-in.

## T TOM AMER HME M

4-Send-end.
$6-A$ nail. 9-(a) Policeman.
(b) Intenperate.
(c) Pardonable.
 ${ }^{6-\text { A nail. }}$ (c) Pardonable.

Names of Those Who Have Sent Correct Answers to August ist Puzzles.



## The Page Fence

Was introduced into the State of Iowa but two years ago, yet the farmers of that state used thirty ight car loads of ten miles each during three months of the present year.
A Canadian company was formed last year and began the manufacture of the fence at Walkerville, amounts, and The Page is taking the lead of all other fences here as it has every where.
The fence is not an experiment, but has been in use for the past eight years near the home of the tion since, is still in perfect condition. It needs no attention, for, in weaving, each wire is coiled into a perfect spring its entire length, and this not only counteract the action of heat and cold, of snowdrifts, and the shocks of animals running into it. It is the only self-regulating fence made, and thus high, closely woven at the bottom, and consists of eleven large steel wires securely tied together every foot. It is shipped from the factory woven and nd prefer that for this fence the posts be place and prefer that-three posts to the hundred feet.

An Illustrated Paper Free.
It is impossible for us to tell all about the Page Fence in the limits of this page, but, if you will be glad to send you descriptive circulars and copies of our illustrated monthly paper, "The Coiled Spring Hustler." The cut which heads this page
and parts of the reading matter are from the "Hustler," and every issue is full of interesting reading for all who use fences. Among other features is a monthly prize for the best written fence experience-to be written on one of the large
post cards. It will cost you nothing and pay you well to send for a copy.

We will be at the Larger Fairs
In neighborhoods where there is none of our fences, we are always glad to ship fence subject to
the purchaser's approval after he has stretched it on his posts; but if you do not wish to take the trouble of ordering in this way, you will have an opportunity at the coming fairs to examine the
fence thoroughly. We will exhibit our fence at Montreal, Toronto, London and Ottawa, and at will have the fence stretched up as it is on the farm, with posts two rods apart, and you can climb on it, jump on it, run into it, or test its elasticity in any
way, and satisfy yourself that it is all we claim. We
have a test of our own-the "bunter", shown in the

reformation or annihllation.
Many farmer are are preiudiced ayaninst at an
midolemen. and of late the cry. har bect

wind to to the horn
for narticulars of apee
PAGE WIRE FENGE CO. OF ONTARIO. LTD. walkerville, ont.

Advocate last June-and we want you to see it try to persuade some rival fence man to test his
fence that way. It will be a good chance to test the comparative merit, for the "bunter" simply con-
denses the wear of a year into a few minutes. My First Experience with the Page Fence. "From "The Coiled spring Hustler.)
Hartland Foa age Wown Pence co
and the road I have a yard in which my buildings ard the road have a yard in which cows or horses
are sometimes allowed to feed. This yard is
路 separated from a field on one side hy four rods of
Page Woven Wire Fence. My wife would not let me hang a bagon that fence to dry, for fear it would sag it and spoil it. A small boy that goes by here to sim not to, and that if he must walk on a fence to walk on that wire fence, and he got right on it at one end and walked the length of it on the top wire Then I began to believe some of your big stories about the fence, and got on it myself; I weigh 180 lbs. Then 1 got Fred. English, a neighbor, who
weighs 150 , to get on with me us and yelled, "Biren, are you trying to spoil that
fence: Fred, get off that fence, or $I$ will come there with a broom." Fred laughed and said to her, "Wery will you ever lie on a stuffed lounge
when here is so good a hammock so near by? for we were sitting on the two or three top wires, they being deflected over some. Now, Fred is a meron and steel, and is 71 years old. Said I, "Fred, how much do you think we've sagged this fence ?" O, some," said he, "perhaps an inch or two," but see that it was sagged a mite. Fred said it beat all he ever saw for a fence. Another good thing about anything right through it and not see the fence at all. Two men have started to drive through it with put up, to say nothing of horses and cows; but they get used to it-evidently like it.

Byron P. Regigles.
A Ride With One of Our Local Agents,
Mr. A. is a prominent farmer in a western wn use, who has bought a quantity of fence for his or the agency for his section. On arriving ask lace we find his fence up in splendid shape along the highway. The end and gate posts properly the fence stretched as well as could be done by one of our most expert employees. This agent is not only thcroughly enthused, but he imparts his
enthusiasm and confidence to every one he meets. He is well pleased to meet one of the Company,
who is authorized to give him control of the county, who is authorized to give him controlof the county,
and after a fair understanding of the terms and onditions on which he can have it, he proposed with him, which we, of course, are both willing and On driving up to an attractive farm house we
seek out the proprietor, and our friend hails him with, "I suppose you have noticed my new fence
along the pike: fence, providen it is strong enough."
"Strong enought It is the strongest fence you - ver saw. The Company guarantee it to hold any
animal you can hring against it." animal you can hring akainst it."
"But do do not underrand why the wires should
be so crook ond. I think it would look better if the
"Oh, no," says our friend, "that would be to to its beauty greatly, and makes it more plainl visible for the animal. But that is not the object of it. It really is the most important principle in its construction. That wavy line is nothing less
than a perfect coiled spring, but so nearly drawn out straight that you do not recognize it. It is that feature that provides for all changes of temperature, of animals. You know many wire fences are provided with a ratchet at the end to take up the slack caused by contraction and expansion ; but instead
of such a contrivance at the ends of a hundred-rod string we have this in every foot of its length, so that wherever the blow strikes there is the reserve force, and no occasion for the wires to stip through
hundreds of staples to relieve the strain at any "But won't it sag when there is so much give to me it would do better to b That is the very point," returned the agent but springs back to place the moment it is let "I notice you put your posts a long ways apart I suppose you intend to set others in when you " No, that is $t$ by the manufacturers. You see a short pan would tend to make the fence more rigid, while these long distance panels give ample room for th and there is less danger of breaking it. as well as injuring the animal, from the less sudden stroke. "How about the price? Can you furnish it as
cheap as we can build barbed wire fences?" "Now that is noir question, neighb
nse you can see that it is a much more effective fence than barbed wire as usually built, beside being wholly devoid of its danger to animals. This
fence is delivered and stretched on your posts ; and with the great saving of posts it is cheaper than any fence you can build that is equally effective
and durable. Even the barbed wire you cannot make pig proof for less money. I am so well satis make pig proof for less money. from so wown ex perience and what I have learned from others,
that I have decided to accept the agency for this county." "You turn fence agent! I supposed you had enough to do on your farm to keep you busy with-
out undertaking the agency for anything. " Well, I suppose I migh for anything. I always have done, but you know to ky boys are as
getting old enough to want to start out for themselves, and rather than have them leave home
prefer to let them take the old place and act unde my advice and direction rather than to go off by themselves. This will give me a chance to loo after their interests and drive about the country "، But do you suppose you can do eno
pay you to neglect your regular farm work?" "Well, I can only judge by what others ar propose to show prosperous sec cons than ours, an putting it in use wherever needed on my own farm. I will also put it up on trial. For instance, if you highway and set posts for this fence, I will furnish and stretch it in place and allow you to decide
whether you want it after the work is done This is what the Company did by me, and it did not tak me long to decide, either.- IThe Coiled Spring

THE PAGE WIRE FENCF COMPANY OF ONTARIO, Lto

Canadian Honors at the World's Fair.
OAttim.
horthorns.










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 IMPROVED CHESTER WHITE SWINE
 Maplevie w Farm

STOCK GOSSIP.












 Mr. R. G. Robinson, of the "Elbow Ranch",
Calkary, callod onnus on his way through io Montreal with hive cars on oery fine stoen
freon his ranch. Ho ownsa herro of bout
head













 -






























NOTICES.
RIF In writing to adve
the Farmer's Advocate.
How to be always successful in preserving how to make the very best jellies, jams, pickles, etc., and how, at the same time, to do it ceonomically, can be learned from Ayer's Preserve
Book. The receipts are all practical and neve
fail. Ayer's Preserve Book mailed free to any ail. Ayer's Preserve Book mailed free to any Adder Co., Lowell, Mass.
In a recent trip through the province, one of
our staff visited 0 wen Sound, and while there our staff visited Owen. Sound, and while there
called upon Mr. C. C. Freming the popula
resident of the Northern Business College president of the Northern Business College
It Was an agreeabole surprise to thd such a
large, roomy, three-storey building devoted to


 nstitutions of a like nature is largely due to to
the fact that the principal unites in himself
both the pratelical busines man and hiex
orienced teacher, for Mr. Fleming, in addition



 ear has been one of the most
has been know. while the
kne
the saskatchewan buffalo robe.
The above headline will remind our reader
hat cold weather will soon be upon us, and hat cold weather will soon be upon us, and
nany will be onsidering what to do in the
vay of replenishing their suply. of robes.
Tessrs. Newlands \& Co., of Galt., ont., have way of replenishing their supply, of robes.
Messrs. Newands C Co, of Galt., ort., hate
nvented and patented the Saskatchewan Buf.
falo Robe, which in appearance very much
 ATE staff called upon this firm a few days ago
nd made acareful inspection of the manu
coture of these goods. We.lieve the to be
he coming robe for comfort, durability and acture of these oood. We believe them the bc
hhe coming robe ofr combort, durabilita nad
ppearance. We were shown robe which had ppearance. We were shown tr robe which had
een used for three years ina livery stable, and
ond been used for three years in a livery stable, and
the only place that showed any wear was the
border. The furry part was improved it it ap
pearance by use, as it had become more curly border. The furry part was improved in its ap
pearance by ues, as it had become more urly,
The invention has had a trial of five years, he the only deficit that could be found has
neen overcme by putting in a light rubber
heet between the pury part and the ining
hing heet between the furry part and the lining,
his makesit absoutely wind and waterroof
We would recommend our readers to see theses We would recommendo ur readers to see these
robes before purchasing any other Addess
the manufacturers for a pamphlet giving teestihe manufacturers for a pam
nonials and full particulars
One of the best assistants in a home is a
good washing nachinesty its aid much of the nost laborious and unpleasant work is accom
lished. The reason many people do no secure this valuable help is that they are not
fully acquainted with the bene the to de
rived therefrom. There are several washers now marufromured that are several waster particular. The Manitoba Washer is one that sombines ease of working, saving of time and n the clothes than by using the washboard in in
the ordinary way. The most delicate farric
an be thoroughly cleansed without injury can be thoroughly cleansed without injuric
and all wearng apparel can be perfectl/
cleaned in much less time than by the old nd all wearing apparel can be perfectly
leaned in much less time than by the old
fashioned way. Some people, in trying a new hachine with which they are, not accuatinted, o not suwnew it properly, ard then, instead of being
o work it
and
 pleasure in recommending it to ali requiring
washer. We have yet to learn of one that is
hot entirely satisfactory, and many who are oot entirely satisfactory, and many who are
hoin them have expressed themselves a
sine using phem
greatly please
without one.
A representanve of the ADPOCATP called a
he Grange Wholesale Supply Companys es
ablishnent in oronto and found the manage tablishment in Toronto, and found the manage
busily engated in wating upon his patron
He reported that business provpects had nere
beepo bright as they are at present, and hat He reported that tusiness prospects had never
been obrigh os they are at prosent, and that
the business for the past year had been sixty fiee per cent. in advance of former years
ome of the reasons for this success are tha
he store is owned by the farmers thenselves he store is owned by the farmers themselve
and that the rules of the institution preven
shareholder from-acquiring more that ny shareholder frome acauiring more than
fty shares, and that three directors are lected every yar; these conditions preven
eny of the members of the company from ob any of the meenbers or the company from or
taining aonopoly in the control of the took
The ofticialo are compelled to give hear The ofticials are compelled to give heary
bond for for per performance of their
duties. The shareholders are well satisfied if





 we repeat again, for any the who had not rim
heired fait reatment from the conpany
let usknow, and we reerived no answers.




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Texas, sared the life of her child by the
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case was attenden thonr phys.iannand wis
sulposed to lie well under control. One






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    Of all that crep or the belw we sun, mould.
    The eagle and the blind worm in the mould.
    I ame the seed that sprout, the leaf that falls.
    I ame the e firstspring bird that cries and calls:
    I am the pangs of birth, the peace of death.
    Mine is the hand that guides yon speeding sphore
    A write on rocksthe record of the years
    Whooe feet tread down the cit ice in their flight.

[^1]:    

