

November 15, 1895

## EDITORIAL.

The "little red Scotch Shorthorn" does not appear to be in any immediate danger of losing his grip upon the esteem of the hard-headed Brisish areeder, judging fales in Scotland recounted in the Nov. 1st advocate.

The purchase, during the past two weeks, and shipment of two carloads of young pure-bred bulls in Middlesex Co., Ont., for the improvement of British Col of the hopeful signs of the times. As a-rule, such buyers do not make their appearance till the early spring.

At a meeting of the Council of the Yorkshire (Eng.) Agricultural Society, Mr. Arthur Egginton drew the attentio over-feeding of stock for evils purposes, and suggested that a code of rules should be drawn up for the guidance of the judges. After considerable discussion the suggestion was unani mously adopted.
The remarkable increase in the use of commer ial fertilizers is illustrated by the fact that in the U. amounted to $\$ 40,594,168$, furnishing employment to $10,000 \mathrm{men}$. The output of fertilizers was about $1,250,000$ tons, valued at $\$ 39,180,884$. In 1894 the out put nearly reached $2,000,000$ tons, while the capit invested increased in a still greater proportion.

If the outlay on capital account for sheep, is taken into consideration as compared with other abor which they take ; also the cheapness of struc ture necessary for their house, and then add to these advantages their great value in bringing fertility to the soil, we must conclude that a great many more sheep than

English Live Stock Journal:-"It is reported Et the proposed holding of the Dairy Conference of 1897 in Canada has received a large measure of support from the members of the British Dairy Farmers' Association. Indeed, we are informed that the promises of taking part in the excursion across the Atlantic are so nose who desire to be ear that the number of ill become unmanageably large."

The agricultural returns for the Board of Agriculture of Great Britain for the year 1894 give the following statistics as to the live stock of certain of the chief countries of the world:

|  | Horses. | Cattle. |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | ${ }^{2,079.587}$ | ${ }_{12,637}^{11,207}$ | 110,159,7 | 1,027 |
| Australia Austria-Hungary | 1,548,197 | 8,613,936 | ${ }_{\substack{\text { 3,1,186,787 }}}$ | 3,599,700 |
| Cana | ${ }_{340}^{683}$ | 1,929800 | 15,124,733 | '228,761 |
| France ............ | ${ }^{2} .7877 .638$ | 12,154.661 | - 20.275 .776 | 12,1 |
| Germany |  |  |  |  |
| nited States . | 16,081,139 | 53,095, |  |  |

Thursday, Nov. 21, is Canada's national Thanksgiving Day, on which special acknowledgment is mady of the yearing, a very abundant harvest, though some localities suffered from adverse conditions of weather. In the Great Northwest the crops were magnificent. Prof. C. C. James contributes, in another column, an able and interesting article appropriate to the occasion. In no country has the farmer passed through stringent times with as little complaining as in our own Dominion. On will demolish his Thanksgiving turkey-to enjoy it in peace and comfort who has a better right?

During 1894 and a portion of the present year negotiations were carried on through the Imperial ecognition of Canadian records at the boundary, but nothing satisfactory was the outcome, on the tech nical ground that because the various recognize pure breeds recorded here had not "originated" in Canada there was no discrimination. It appear that further represenaing called to the so-called French-Canadian Jersey or Canadian cow as one originating in Quebec Province. As might be supposed, the U.S. authorities have just replied that they are not satisfied from the evidence submitted as to the breeding standard of these cattle, an
J. A. S. Macmillan's Shropshires.

The very striking illustration upon the title page of this issue has been prepared by our artist from a photograph of a few representative sheep from the large flock of pure-bred Shropshires Mrned by J. A. S. Macmillan, Brandon, Ming Mr. Macmillan's Shropshire the West so well and favorably known that a detail description of the bly be superfluous at this time. Su that Mr. Macmillan personally seleeted the foundation flock from such celebrated English breeders as Mrs. Barrs; Mansell ; Ingers, and others. And new rams are imported every year for use in the flock. This flock has been well-represented at the leading shows for the past three or four years; and their winnings this year, which included seven 1sts, six 2 nds, and three 3rds, at the Winnipeg In dustrial : nine 1sts, four 2nds, and four 3rds, at the Territorial Exhibition at Regina, should be ample evidence that the sheep of this flock po individual merit as well as good breeding

Mr. Macmillan reports the past season as a very sales have been good. Among the larger sales recently made are the following: McIntosh \& Co., Calgary, 55 head; Geo. Hope Johnston, Cal gary, 40 shearling ewes; the Lethbridge Sheep Co., Irvine, N.-W.T., 15 ram lambs, W. H. Upton Whitewood, 10 ram lambs; and W. H. Upton Whitewood, 10 kept: one south of Oak Lake, and the homs farm, which is just two miles south of Brandon, where sheds have been erected and arge supply of fodder provided. While quite a bit of hay is put up, the main fodder will be sheaf oats, cut green - one hundred and seventy-five acres being in oats this year. Thiry acres od crop and tares were tried, an prornips on the home There were also arm, whe balance of the 350 acres now under culvisit; the being in wheat, barley, etc.
Now that an export trade in sheep has been stablished, there should be a largely increased demand for pure-bred rams; for if profit is to be made out of the business, pure-bred rams must be used; in order to get sheep of good quality.

In swine, no pure-breds are kept, except for crossing: the Tamworth-Berkshire
been tried with very gratifying results. Mr. Macmillan is a lover of a good in breeding horses of good quality. He is now the owner of seven drivers and two saddlers. His handsome black driving mare, Lady Peri, five years shown by in a good second at Brandon summer fair He also Christie a three-year-old Dexter-Prince Standard-bred, recently from California, which he thinks promises recentilop considerable speed.

Thoughts for the Dairy Farmer.
Dairying, like other branches of farming, is subect to ups and downs, but the stability of the worthy of note, and has been a subject of frequent comment. During the past season the price of cheese sagged down considerably, though not a ow as summer cheese once dropped, temporarily, good many years ago, but latterly markets have mith good prices, for butter. Canadian creamery butter is now making a place for itself in the British markets. We notice that it is being regu larly quoted in provision reports sent out from Liverpool, arrivals meeting with "a ready sale as landed." Canadian cheese retains is place of pre eminence, but no opportunity or improvement in neglected to keep up tition. Prices for a time may rder to been encouraging, to the new cheese factories and patrons more particularly, but the older ones will not be seriously disturbed. Heretofor those who have pursued dairy farming intelligently and with steadfastness of purpose, have had the reward, as in other specialies, and son prices, but it is not without good if it compels a closer study of the business, from the selection breeding and feeding of thess, till the finished prodevery detail of the territory of the consumer.
uct is landed in the

The Agriculture of Canada -- Thanksgiving Day Reflections.
By C. C. James, Deputy-Minister of Agricaltare for Ontario.] which all classes contribute, or should contribute. If, however, we trace it back to its source, we shall find that four streams contribute to the volume, namely, the product of the farm, the forest, the fisheries, and the mine. The variations in our national wealth and the general condition of our national wealth are controlled largely by these four sources. In Canada, these four great industries give employment to $\%$ very large porkion in all
population. In 1891, out of $1,659,355$ workers population. 10 were engaged in agriculture, fishing, mining, and lumbering. The relation of the various classes of workers may be stated briefly, thus : Of the total persons having occupations, 47.6 percent.were engaged in agriculture, mining, fishing, and lumbering; 19.3 per cent. were engaged in manufacturing and mechanical pursuits, 11.2 per cent. in domestic and persoration; 38 per cent. in profestrade and transportan 3.2 per cent. were in the non-productive class. The 790,210 , forming nearly one-half of the total workers, were divided into the following classes : Agricultural, 735,207; fishing 27,079 ; mining, 15,168; lumbering, 12,756. The annual agricultural productions of Canada amoun to about $\$ 500,000,000$ in value ; the forest products, $\$ 80,000,000$; the mineral products, $\$ 20$, will thus be he fisheries products, wealth aggregate $\$ 620,000,000$ a year, and that four fifths of the total volume comes from the farm No wonder, then, that when agriculture prospers
our whole country prospers, and that Thanksgiving our whole country prospers, and car's harvests have Dean is postpered and the farmer has balanced his
bedger. ledger. times have been hard, unusually hard, and have weighed excessively upon the farmers o
Canada; and yet they have not lost heart. The armers of Canada come from hardy stock,-the hest of the yeomanry of England, Scotland, Ire
and, and Germany, in addition to the thrifty French-Canadians, who may be considered almos
as being native to the soil. When these nationas being native to the soil, the product will be a rural people unexcelled, if not unequalled. Another cause of hope in Canada's future lies in
and the fact of our variety of resources. We have coal west; iron in every Province except the prairie
sections; gold in Nova Scotia, Quebec, Ontario, and sections; gold in Nova Scotia, Quebec, Ontario, and
British Columbia; copper and nickle to supply the British Columbia; copper and nickle to supply the
world; salt, petroleum, and natural gases
We world ; salt, petroleum, atlantic coast, salmon on
have cod fisheries on the At
the Pacific, and our inland lakes and rivers also contribute large quantities of varied kinds. The timber limits of the older Provinces still contribute the larger portion of the legislative revenues,
while the enormous forests of British Columbia and Labrador have been only partially explored ; and the agriculture of Canada is even more varied. Prince Edward Island, long noted for its sheep and as a dairy Province; Nova Scotia grows some of the finest fruit in the world, in the rich and beautiful Annapolis Valley; New Brunswick has, as yet, general advance in methods : Quebec, with abundant hay and rich grasses, holds her high record
for Eastern Townships butter ; Manitoba grows the for Eastern Townshers butter ; Mant W. Territaries are building up a series of magnificent stock ranches de-
some sections, and in others general farming is desome sections, and in others general arming is
veloping well; British Columbia will soon have a surplus of fine fruit; as for Ontario, the Ces, her
Province, her cheese, her apples and paches, her Province, her cheese, her apples and peaches, her
barley and peas and oats, her cattle and sheep and horses, all take, rank unsurpassed in the world's
markets. While we have a variety of resources markets. Whife we have a variety of resources wonderfuriety variety of agricultural products, and in wonderful variety of agricultural produat, th tinued prosperity of this country is assured.
Now, permit a few words of particular reference to the high quality of our Ontario agricultural o the high quality of our Ontario agricu in the
products, for the country that can continue in the production of a superior article is sure to hold a
high place in the markets of the world. In the high place in the markets of the world. In th matter of live stock there is no other part of Nort in the keeping of stock of so many breeds as the
Province of Ontario. The Chicago records were post conclusive. Many of the best herds of have been built up upon Ontario stock. Even Great
Britain has drawn from our resources. The celeBritain has drawn from our resources. The cele-
brated Forest Grove herd of the late Col. Moberly was sold on Oct. 23 rd . Advertisements of it gave the pedigrees of 21 of the choicest Shorthorns; of
these, 8 at least were Ontario stock. Within the these, 8 at least were Ontario stock. Within the
past month, Prof. Curtis, of the Experimental Farm, past month, Prof. Curtis, of the Experimental exten-
of Iowa, has visited this Province, making ex sive purchases of sheep and swine. Further intent
trations could be given, but we shall rest cont with making reference to the compliment paid to
Ontario by The American Sheep-Breeder in a recent
issue:
"Ontario is a capital sheep country, and has the location, climate, soils, grasses, farm management loca ibepherds that
and san successful.
ing and ing and and, for that matter, alic Canada, might be
Ontario and
colled the land of bright waters." as for our deright waters. Agriculturist made a slip latell apologized so fully and profusely that our cheese and butterstands even higher, as a a onsequence, in
.British estimation. The cheese of Ontario still stand supreme. The Gazette (of Montreal) give the quotationsinest Ontario, fall makes, 93c. to 9 g.c. as follows. Finect fall makes 9yc. to 9.3.c. Townships
finest Queber, however, keeps ahead of Western
deiry butce. dairy butter. however, keeps dairy. We maend out no filled.cheese, and the
 $000,000-\mathrm{a}$ tidy litte sum for casein and butter-fat. Of this amount, Canada received $\$ 3,0,000$, half the amount paid Duwinion cheesemakers. II export trade is due to our marketing of spuriou goods-filled-cheese and skims-as full cream Canadian cheese has preserved a better repp.
than our own, and kence is taking our trade.
As for fruit, we are just beginning to find out As for fruit, we are just bergown people are in
what we can do. Many of ours ond great ingorance of our possiniintes. th is no
 peaches, we shall make a quotation from a report made
to the U. S. Government by the Consul at Belfast. t. $S$ Denartment of Agriculture :
U.The supply of groen a paples comes. principally from the ties dian apples have been growing in po and



 and the U. S. Consul at Oa the subject
"owing to the fuctuations, which have of late years






Respecting cheese, the U.S. Consul at Liverpool "The





eated in New York or while in trank high stand taken by our farm products. That position has not heen
chieved by accident or good luck-back of it lies achieved by accident or good work, amhition, hon-
patience, perseverence, hard esty, and the natural advantages of soil situation and climate:-all these aresure Canadian people.
But one of the strongest reasons for encouragementi is the great intellectual activivy aroused among, the farming community, and it is still increasing. The farmer, the farmers the importance of true
daughters are awake to
armers.
the
 many associacions jeavening press, all these have been at work, and never before in the histury or
 her greatest interest is that of agriculture, he heri
 the temperate zone; her people ack her varied
superiors for hard and hoest work : her superiors for hard and honest in the friendly com
products hold their own hoth in trug
petition of nations and the more important strug gles for place and rect
of the world. Then,

 Worthy
most genernus encoul
to whom especially
whed

Do Not Delay - - Act To-day
A few plati facts for reade.
farmers adyocate.
Thanksgiving Day Proposition.-Thanking our riends for past favors, and for the hearty words of we count on their continued co-operation. To ecure, say, one new reader will cost but a small ffort, yet in the aggregate it will mean thousands, nabling us to broaden and improve the service we are now rendering. Reader, have you a neigg bor or friend who would be interested and hey will by reading the Famhs their next year's reading ow be considering from you will help to plac will be, and a word from yould not do them a hem on turn. We propose to fulili our part of the contract.
The Best.-Cheaper agricultural papers may be ound, but cheapness does not-can not-give qual ity. In the market-every where, to-day-quat and pays. Men have found some ofeets dear in the end even some very pretentiossil in giving the most, the We do not st hest practical matter, well printed ressuperior paper and handsomely illustrated. fact, we are often asked how it is possible to giv so large and costly a paper at the modest rite per year!
year! $\begin{aligned} & \text { Seasonable and Up-to-Date.-We aim to presen } \\ & \text { - }\end{aligned}$ in these pages promptiy, cessful experience in all language, the facts and whatever will tend to branches the best interests of farmers and breeders. pro contributions and suggestions our readers cas By contribus important work.
help in this
"Its Owon Revard."-It is true we give valuable premiums and cash commissions to those oby to give new subscribers, but never find it necessaryich is a people prizes $o$ oun in itself. The longer known sufficient prom is liked. Many subscriptions have the better iwenty-five and thirty years. We give extended tweactical, everyday value to our readers This pays us beeause it pays them. Do you desire free sample copy for a friend? Drop us a posil card, with the name and at
and the sample will be seat, band, bringing an extra Reneriong Time iofice. Our friends will confe rush of Wed implify matters by renewing promptly, favor and time sending in, if possible, the nam fat least one new subscriber; but you can do better than that. A glance at will show that wo ments on our premium page act promptly on our nakelf.
Thanksgiving Day Gift.-If you have a son friend who is just with a Thaise, and you will have done him a lif long favor.
g.-Many farmer ong favor.
Premiums for oll and Young.-Many farme are not yet realing simply because the we want agents in every presented to to Canada and the adjoining States. arming sectie their effurts we offer specially attrac tive premiums on another page. Read them care fully. Send for sample copies and the canday. Begin the work at once. Pususiastically. as. Puited effort on the part of friends, old and new, and all our agents,

The Foal this Winter.
Every good foal born in 1895 will be in demand as soon as aly upon early care every chance $\left.\begin{array}{l}\text { a } \\ \text { depend largely }\end{array}\right)$ develop a strong, vigoros winter. Not only should a
given him this coming given artable, roomy box be pe the open air should hut provision for a iaded, bad policy to stint young
be made. It is, indeed a diberal allowance of that herses in their food, and suitable for vigorou
which is nutritious proftahle. We have all seen growth is always proftahle, starey-coated foal
the rough-looking, pot-belied, stang. Such an appea
 which will take a lot of ofood food and considerab
time to overcome. Frequenty is this untrifty time to overecto worms, which can he senant sup
condition due to
firces.
 ood, repeated anter good
hours, considered
hours after the last dose from
raw linseed oil should be giver

## A Manitoba Thresting Scene.

 The accompanying engraving of a threshingcene in the thatiost fields of Manitoba will give our Eastern 'readers some idea of the way bo nanze" crops are threshom twelve to twenty men, depending upon whether the threshing is done ou of stook or stack, and upon the capaci certain posichine. Each man usually is given a It is now customary for the thresher to take with him a caboose a large wooden van on trucks, fitted with sleepinging the settlers from providing sleeping apartments for so many extra hands. It will greatly lessen the horrors of threshing time when a van" accompanies each outfit, thus saling a good
wife from the labor of providing meals. An ordiwife from the libch of prinder machine, well managed, will this year, in spite of the great amount of she while some of the mammoth separators will nearly some of the The usual charge for threshing out o double this. The usual charge for threshing thr

The St. John (N. B.) Exhibition. (Continued.)
The large drill hall was completely filled with 11 kinds of carriages of beautiful design, style and Bangor buggies, phaetons, surreys, Gladstones, Eng lish dog-carts, road wagons and carts. The exhibition of sleighs was magnificent-every form of winter vehicle was there in a great variety of styles and ing, with gold trimmings. The New Brunswick people take greater interest in their winter convey ances than the people in Ontario do, the winter aeing longer and morerally clear, with very few thaws, so that sleighing is very seldom interrupted during the winter months.
Our local carriagemakers had nearly all a fine
display, but they were not alone in the exhibition display, but they were not alone in the exhesented.
Ontario makers were exceedingly well represent
During the second week of the exhibition the During the second week of the exhibition the
country people came into the city in greater country people came into the city in greate
 John.
AGRICULTURAL PURPOSES Stallion, four years- 1,
Puddington, St. John; ${ }_{2}$, Robit Brown, Northampton

 These are not all the awards, as there were classes for all kinds of young stock as well; but these show that we have some stock of the best
breeds of horses here, which will help to improve our general stock.
There was also a class of Standard-bred horses, which were well represented.
cattle
AYRSHIRES-Bull, three years old and upwards-1, W A. Black, Amherst Rob Roy; 2. W. Wonovan, Coldbrook,
Robin 39 ; J, J. M. Donovan, Goldibrook, Duke of Canada 312
Bull




arthing the manitoba "bonanza" Wheat crop of 1895.
cents for oats and barley. All the farmer has to do is to take the grain away
In the background of the engraving will be noticed the "basket"-racks for drawing in-as in this instance the threshing is beisg done used, the stoamsters pitch on their own loads, thus saving extra pitchers, and a good draw
The single horse to the right alongside the heap of straw is one of a pair of ""buckers," they being worked by a boy to "buck" the straw, away from
the tail end of the machine. This is managed by a the tail end of the to each end of which a horse is long plank or pole, the pole, being drawn across behind a
attached. The heap of straw under the stackers. is hew it away to the boy's weight while delivered in piles ready to one surned as scon as the "setting" is threshed out. A large water tank on a wagon provides the engine
with water from the most convenient source of with water from the most convenien and teamed
supply. The grain is usually bagged and supply. The grain is usualy bagged anble wagon
directly to the nearest elevator in double
ground one day. The horses, cattle and sheep on
exhibition were much smaller in numbers than at your western exhibitions, but the quality was, all
things considered, excellent. In most of the classes a good representation of pure-b years ago very few pure-hred animals were to be found in the Province. This speaks well for the enterprise
the and intelligence of our agricuerent times brought in importations of pure-bred horses, cattle, and sheep, which have been of great benefi Among the more notable awards were the following:-

## horses.

CLYDESDALE-Stallion, four years old and up-1, R. A. ENGLISH SHIPEEStailion, four years-1, J. H. Reid, Reid. Fredericton. General Gordon.
 ertion. Kingstone Kent Co.;2, James D. Reid, Fredericton;






 and seseral classes for grade catle, also of grain
of all kinds and Indian corn. Our. potatotos and
 roots were of excelent quality ond one metables. on
ties; and the same is true of the vegetal the whole, the exhibition of horses, cattle, sheep,
pigs, and all kinds of farm produce, was considered pigs, and all kinds of farm produce, was consi ine by everyb.
Province.
A Scottish writer states that from his observations he has decided that in most cases of sows
eating their pigs as soon as farrowed, that intense thirst was the cause. At farrowing time the sow
is in a highly-fevered condition, which always accompanies extreme thirst. When a liberal supply of cold fresh water is placed in an accessibe

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the leadina aqricultural journal in HE DOMINION.
THE WILLIAM WELD COMPANY (Lmmited). Ont., and Winnipkg, Man. John Weld, Manager.

Thith ramer's A
treentho treach month. It isimprial and indenondent of anl olives of parties
 in canada


3. Advert thang Rates S. Single inoertion



5. Int indiveato it gant to sibuarb




jubeos thisi is done
9. Tho Diato on your Labol thows to what tue sour buburn



 bifurithed ol Dosetape.
Adirrese

THE FARMER'S ADVOCATE, or
He WILLIAM WELD CO.
COITTHITS.



















Study of Bacteriology.
The organization of a Department of Racteri
 tharrison, i, S. A, med for this difficiult and responsil







large, particulary

، The Classification of Grade Cattle at Our Shows.'
an open letter to the "president and poard
of directors of the western fatr." Gentlemen,-As judges at your fair are requested to sub the efficiency of the fair, with a promise of careful consideration, I would beg leave to draw your attention to Class 17, viz, this class for several years, particularly so for the last two years while acting for you as judge on Jerseys at
your show, and also by some articles that have your show, and also by some articles er's ADVO-
appeared in the columns of the FARMER
cATE unon this same subject. Now, the first class cATE upon this same subject. Now, the first class
for cattle in your list is Class 15, Durrams, registered : then Class 16, Fat Cattle, any breed; then
Class 17, Grade Cattle ; then Class 18, Jerseys, registered; but you do not follow this by a class for
trade Jerseys, neither do you in any of the other Grade Jerseys, neither do you in any of the other
breeds. Now, as the class for grades comes after breeds. Now, as the class for grades comes ase it
Class 15 and before Class 18 , one might suppose
was intended for Durham grades only. The time was when very few grades would be shown bu grades of the Durham breed, but things are very
different now, and I think that the time has fully arrived when grades of the different breeds should be allowed a fair chance for competition
Now, I am aware of the fact that you allow grade cattle of any breed to compete in Class y, and tion, and beg leave to suggest to you that you are
spending money in that class and are not giving a spending money in that class and are not giving a satisfactory to some, but cannot be generally so Some exhibitors seem to think that the large breed
or breeds should have the whole class, and tha or breeds sows are scrubby and not worthy to compete with the larger bovines; others suggest tha pete be judged as general purpose animals, seeming
to forget the claims of other breeders who believe in special purpose animals, and the number of these men at present are not a few. In our special business of butter dairying, in the last ten or more
years, I have been most intimately associated with ears, 1 have been mo of the best butter cows to be ound anywhere, some of whom have cows that each make over 300 pounds per year, many cown none capable of making arge, neither are they general purpose cows. They are special purpose cows, and
they are nearly all grades. Nowi if all grade hey are nearly anl grades. Nowil judge them.
animals be classed together, who will
That is the great difficulty. It is almost impossible at present to get a judge who has not a fondness for some one breed, viz., the kins, the animals looking mot like bis kind, in color, etc., wime hime he has a fondness for that kind andtle as they are about are as foolish aboury man thinks his own the best in the world.
and that they be known the class be cut in two, and that they be known as grades o
the beef breeds and grades of the dairy breeds; but I still see the same difficulty. I want to show my Jersey grade. My neighbor thinks his Ayrshire
gradea better cow. Who is to be the judge? Some grade a better cow dairyman! Yes, what kind does he keep
good dairyma good alf? Or has he not a fondness for one kind or
himself
the other? The difficulty is still before us, only the other? The dat. It is like men with their
changed somewhat
wives, still. In the former case it is a matter of wives, still. In the former case it is a matter of
choice between a large and a small one, and in the latter case I believe or two small ones are the better
which of two large or looking.
The plan The plan I have in view is as follows, viz. : Do
away with Classes 16 and 17 ; that is, class for bee away wals and also for grade animals, and instead o
animand these, in each class of thoroughbred cattere ads. In few sections for grades of the different breeds. Iive
the two classes mentioned, 16 and 17 , you give nearly $\$ 200$ in prizes, which, this seems very little, and
$\$ 25$ for each kind. Now, would not be very mush for each, but I would say
let the prizes be less for grades, also entry fees let the prizes some sections could be dropped out
small ; also But 1 would certainly say, give the same smed be. But I would certainly say, give the same
need
amount of money to each breed and let the judge of amount of money to each breed and let the judge same
the thoroughbred also judge the grade of the the thoroughbred a prizes might be smaller, yet the
kind; though the competition would be fair to al, and
would be able to do his work impartiall
would be able. to do his worgest the following sec-
For Jerseys. I would suggest giving prizes for females in milk only, and a section Ser heifer calves,

1. Grade Jerisy cow, 3
 Total
Now, these are small prizes, but they would the
competed for by local men who would not be at compete of shipping their animals by railway, and
expense
they could beallowed to take their animalsaway if
thought wise, before the close of fair. The above plan might do for the ould not suggest any , whin
the beef breepds w would
breeders or judges of these would plan for them selves as they thought hest. special prizo. I think,
should then be given by breeders who have been
winning year after year in the different classes to the grades of their respective breeds, and thus a
lively interest would be taken in the exhibits of the lively interest would be taken in the exhibit of the
different kinds of grade animals. I think you see different kinds of grade animals.
these suggestions to be on the principle of fair play
to all, and should result in a much larger show of to all, and should result in a much larger show of
grade animals. I hope this may be helpful to you grade animals. I hope this may be helpful to you
in disposing of this matter, as I think a change is in disposing of this matter,
demanded in the near future.
Another difficulty has presented itself to me in
the two years' work, and think the judges of the the two years' work, and firink the judges of the other dairy breeds must meet with the same trouble
that is, in the section for yearling heifers. I find that to be a very hard class to judge, for this reason that you meet animals varying so much in age
some 13 months, and some 23 or 24 months old, and what is worse, some in milk, some heavy in what and some, perhaps not bred at all. Now,
calf, and
think it almost inpossible to judge a female in milk think it almost inpossible to judge a female in min
with a heifer not bred at all and give fair play to each. I would rather say: let two-year-old class include all heifers under three years, in mik or nea showing age in months; they could then be judged according to age, and their appearance for useful ness, better than as they now are. Also, exhing age
should be prepared to show certificate showing of all younger animals, as judges find so muc difference in age in all the vounger classes.
Wishing the Western Fair every success,
I am, yours very truly, McCulloch.
[Note.-Mr. McCulloch has well said of the table presented in the above article, "these prizes
re too small" to be competed for at a fair such as are too small to be competed for at a ity hesten, where the an fis dass at least. It ppears to classes hould be added to the prize list very many of the prizes for pure-bred sections should be considerably augmented. Would the finances warrant it, and were there no other special calls, such aclassification, with much larger prizes than Mr. Mceulloch has proposed, might be in order ; but, as the conditions classesent exist, it is not little as grades usually do thus dich the classes of what should be offered in order to draw them to the show.-ED.]

## A Good Dog--The Farmer's Friend.

 Our frontispiece in this issue portrays a scene true to the life-an intelligent Collie lying quietly before a fine group of shropsub dogs, like othe their keeper and the curse of the farmer. Oon scrub stock, a scrub category is the hungry sheep-killing cur-the greatest enemy of the indus try in America. A well-trained Collie is a boon to any farmer as a guard and servant, saving many miles of weary tramping, not to mention companionshil; for he ranks in intelligence alonsside the well-bred horse. His good qualities, like those of other animals, do not come by chance ; breeding lies at the foundation. Young men well as older ones) take pride in the possession of an extra goo ur readers we have made arrangement with Mr. Robert McEwen, of Byron. Ont,, distin guished as a breeder of Collies, enabing us to oft FARMER'S ADVOCATE, pure-bred puppies six weeks old and upwards, eligible to registration. We hope in this way to encourage to some extent the kepway to secure dogs of such merit, as will be seen by a glance at our premium page. Mr. McEwen is so well known as a breeder that we need ag Collies for on that point. He has been breeding Coiled more prize winners than any other breeder on the Con-
tinent. This has been accomplished by importing inent. This has been accomplished by importing
nly stock of winnigg strains, and mating them with judgment. They have won prizes in New York, Chicago, Detroit, Boston, Philadelphia, Pittsburg,
Buffalo, Toronto, Montreal, etc., and have been sold to customers from the extreme east in P. E. I. to B.C. and even China in the west. None but the they contain the blood of such noted individuals as Champion Christopher (sold for £11000), Champion
Sifton Hero (sold for Perfection. etc. For years Mr. McEwen has been and last year was engaged to award the prizes in Collie classes at shows in New York and Toronto, ang of the dogs.
We trust a number of our readers will be fortunate enough to secure a young collie, bre, we would
famous kennels. For the conditions refer at
page.
A dairy school will be opened in Winnipeg,
Wan., early in January in charge of Mr. U. C.
 butter and cheesemakers, open the free and at the
and daughters. The tuition will he
allo of the term certificates will be issued on the clowe of the term certific
basis of an examination

Breeding and Feeding Beef Cattle. [An Ontario Farmers Thstitute adaress by inomas My ofilan.]
The stady of the Agricultural industry of this
Province leads us to believe that in order to be Province leads us to believe that in order to be
thoroughty successful
sem must make a specialty of of
of some particular department of the farm. In this
respect we are simply following the example set by
In these times the march of invenmanufacturers. In these times the march of inven-
tion has been so rapid, and competition so keen, tion has been so rapid, and competition so keen,
that, in order to succeed, manufacturers must concertain particular lines. So it is with the farmer. It is an old saying, and a strue one, that if we would object in view, and in our operations endeavor to object in view, and
attain that obiect. The first thing which every
farmer must decide for himself is, in what particufarmer must decide for himself is, in what particua choice. In glancing over this Province we find
some farmers engaged in sheep rearng, some in hog rearing, some in dairying, some in beefing, and so on ; and we find men in all these department
who have been successful. Therefore, 1 consider the first great requisite to success depends upon ourselves, and requires that we must carry into our business the necessary skill and attention which,
when properly directed, is certain to give satisfactory returns. In the department of breeding and feeding cattio, we first require to put ourselves in the possession of a number of good, serviceable,
healthy cows-cows which will not only return a profitat the pail, and produce a well-formed and healthy offspring, but which, when no longer
required for these purposes, will possess the inrequired for these purposes, whesh easily and rapidily,
herent quality of taking on fle and of making a satisfactory return at the block
Some of the main characteristics of such an animal are the fine, clean-cut head, which inicates a good ack, broad, full and deep in and straight in the back, broad, for the ribs, fall in
the chest, well sprung and deep in
the llank and fore flank smooth over the kidnevs the flank and fore flank, smooth over the kidneys,
with the buttocks reaching well down the the hocks, with the buttocks reaching wilh iowicates a fineness
and that fineness of bone which ind
and smoothness of the carcass generally. Apart from these features, one of the main points in a good beefing animanis what is called a good hana a fine coat of mossy hair).
should always be to increase the quality of their should always
excellence and never allow them to deteriorate. accomplish this, we must never breed from any but pure-bred males-animals of good ind indual merit, wine of notable ancestors-as such animals are much more likely to possess to a greater degree that pre potes to their offspring.
With many farmers it seems to be a common With many farmers it seems to be a common
practice to settle in their own minds from which
cows they intend keening their next year's stock cows théy intend keeping prraps mate with a good of calves; ,these they may perhaps tate with a good
male animal, and the balance of the herd is often moned to an scrub for the sake of fifty cents or one
dollar in the service fee. This is a most ruinous dollar in the service fee. praturns, as it is a settled , principle in stock breeding
reter
that that "like begets like", and that any one concep-
tion must affecta succeeding one, either beneficially tion must anfecta succeease many be. Another great
or injuriously, as the ease
mistake, and one which is not confined to the general farmer, but often pursued by breeders of thoroughbred stock, is that of breeding from young males from one to three years old, and then, just
when they have reached an age of sufficient maturity when we might expect they would be able to transmit to their offspring that health and vigo of constitution which is most desirable
they are sold to the butcher. This practice I believe they are se of the causes of the general complaint
to be one among farmers, that their animals are not so-
healthy and vigorous as they were years ago. Once healthy and vigorous as they were years ago Once having in order to tolla and improve the good name
ing in
which we have for the quality of our beef, we must Which we have for the quality of our beef, we must determine to make war upon all serub animals.
They are a positive sign of want of thrift in every They are a positive sign of want of thrity in every
barnyard $\mathbf{w}$ here they are to be found unprofitable commodity to have, and the narrowing $\frac{\text { margin of profit will not all ow ths tact that there is }}{W}$ still room for vast improvement in the quality of our herds; and when we know that the same quantity of
food which will put two pounds additional weight food which will put two poonds additional weight
on a scrub animal will put three pounds on a wellon a scrub animal will put three pounds in artance
bred grade it it a mater of the first inportane
that tamers should endeavor to rid themselves of all poor animals. Let me cite one experiment in
support of this contention. Mr. Britton, at one support of this contention. Mr. Britton, at one
time a feeder of cattle io Toronto gave evidene
theore the A before the Agricultural Commission in 1873 regard-
ing some experiments he had carried on. In one ing some experiments he had carried on. In one
he bought 103 scrubs north of Peterboro, paying for he hought 103 scrubs north of Peeterboro, pay bought
them two and ahalf cents per pound he he bouth
another lot of well-bred grades near Goderich for
and from three and a-half to three and three-quarters
per pound. He fed the two lots for a period of
seven months. Although he did not weigh their seve, he stated the scrubs consumed much more
feare the grades. At the end of seven months he
than found the scrubs had gained an average of 1130
pounds each, while the grades had gained an aver
 for the grades,
the grades cost him from one to one and a-quarter
cents per pound more than the scrubs, they were
the more profitable animals to handle. Mr. Hob-
son, of Mosboro, and Mr. Clayy who was for a
lengthy time connected with the Bow Park Farm
 have each given similar testimony; and I may also
say that this testimony is borne out by our own experience during the past twelve or fifteen years. Although good breeding will do ail great deal,
vet a judicious system of feeding will do just as yet a judicious system of feiding wist results we must adopt such a system of feeding as will bring
our animals to maturity as early as possibe. Therefore the one great point which farmers should
never grow weary of impresing upon each never grow weary of impressing upon each
other is the great folly of allowing young animals
ol lose tesh. There is no mystery in the growth to lose fesh. There is no mystery in the growth
and rearing animals. Every pound of additional weight put upon an animal represents so much
food, and is a certain cost to its owner. In fact, Whether the animal is allowed to increase,
remain tataitonary, or decrease in eeight, it is costing its owner so much each day. Thus
is evident that the only profit to be obtained
from the food consumed is through the in from the food consumed is through the in-
crease in weight which we may be able to obtain. Hrom the current practice of allowing our young animals to run on bare pasture during summer, and
run around straw stacks in winter. not only retards the present growth of the animal, but it so injures their digestive system as to render
them unable to digest their food profitably when being fattened. And this, too, is the great reason
why very many farmers are compelled to feed their why very many farmers are compeniled to feed then
beefing cattle such heavy grain rations while-stallbeening cattle such heary grain rations while stain
feeding them.
If our young befing animals are keeptand fed properly they should, in a measure, be
kearly ready for the butcher at any time. and when nearly rew that more gain can be obtained from the we know that more gain can be obtained the youm the it is,
same amount the the same ames our duty to furrish our young animals with
buch full and appropriate rations as will bring them such full and appropriate rations as will bring them
to maturity as early as possible. Every individual wha knows anytting of the nature of animals
knows well that while the animal is young, and in knows well that while the animal is young, and in
the rapid stage of its growth, its digestive and as. the rapid stage. of its gro
similative functions are most active; ; its percentage of waste in itts system is much less than after it
reaches maturity and that the older it bect reaches maturity, and that the older it becomes,
even before it reaches maturity, the more food it even before it reaches maturity, the more food
requires to suply this wast. Therefore the same
amount of food will produce so so much more weight amount of food will produce so much more weight
when the animal is young than afterwards, and here it is our duty to mature our animals as early as p pssighe, as early maturity orer
system of , orfitable beef production.
In outlining
In outlining a system of feeding to be followed,
let us start with the young calf,'which we like to let us start with the young calf, which we like to
have dropped some time from the month of Novemhave dropped some time trom the month of Novem
ber on till spring. Although, no doubt, the sleekest and best calves can be obtained when they are al-
lowed to suck the dam, yet I helieve the more prolowed to suck the dam, yet
fitable method is to milk the dand feed the calf from the pail. We separate the calf from its dam at birth, as it can be done with less trouble and annoyance than at any future time. Keep the calvee
separate until they have been taught to feed well, as we invariably find if two or more young calves
are allowed to run together they will learn to suck each other after receiving the usual milk ration. In the case of the male calves which we
castrate, we do so as soon after birth as possible. We have never found any injurious results fron performing the operation at this time, whereas
we wait till the animal is three or four weeks old as is generally the practice, it will often be eight or ten days in coming round to be as frisky as usual
again. For the first two or three weeks we feed the young calf upon new milk; then we introduce a skim milk ration at noon. in which is mixed a little
boiled flax or oatmeal. We also gradually change from the new milk ration, morning and evening, by mixing with a little skim milk supplemented with a to heat to new milk temperature, as we consider it
very injurious to feed cold milk. We also keen very injuri (if available) in their stall, and crushed
clover hay peas and oats in a box to which they have access.
If they do not take readily to the meal, feed it from the hand, and when they have learned to eat the
dry meal withdraw the grain mixture from the dry meal witharaw the grement their meal ration
milk. Graduall sum
with roots and corn silage. In all our experion with roots and corn silage. In all our experience
we have found no forder to which young calves will take more readily than corn silage. It seems
to give them a fine sieek skin and developes their digestive system admirably. In fact, our exper-
ience in the feeding of silage to calves leads me to ience in the feeding of silage to calves leads met
believe Mr. Stewart, in his sotable work on feeding animals, when he says: "Corn silage must take the place of the steaming and cooking of foods,
which is largely practiced in the older countries; its succulence is greater than can ever be attained by the steaming of food; and it must approach in
digestibility very nearly that of green grass aaten in pasture., very nearly that of green grass eaten
that spring growth starts, so that we have grass, let the calves have some. If we
have a grass plot near the barn we let the calves on inve atas. cut the grass and feed them in a loose box.
it ;oung calves should never be allowed to roam over laung calves sho exposed to the scorching heat of a summer, sun, or have their usual grain ration
neglected. When the fall season comes round they should never be exposed to inclement wather,
but by this time be but by this time be comortably placed in winter,
quarters. Feed judiciously the tirst minter a ration
of grain, with roots, or corn silage of grain, with roots, re corn silage, cut feed
and clove hay. If the young animal is well fed
and properly cared for the first year of its exist-
ence, its growth and condition as a thriver is
determined it forms the habit of laying on fat, and with proper treatment of we having very
hitle trouble in keeping it in good condition ittle trouble in keeping it in good condition
after this time. During the second summer, turn apon grass, and if, on account of drought or other
cause, there is
not a $a$ plentiful supply of pasture ause, there is not a plentify supply of pasture, hhus must well invapariably find our animals coming to
their winter quarters in good condition, and with
and hheir winter quarters in good condition, and with
iberal feeding over winter they can easily be liberal feeding over winter they can easily be
made ready to ship to the British marketat from
wo to two and one-half years of age. In fact the made ready to ship to the british market fact, the
two to two and one-half years of age. In fact,
best feeders in our country who fatten cattle of best feeders in our country whice of having them
their own breeding, make a practice ready to ship not later than this age; although percentage of our farmers-who still persist in rais ng their animals to two and one-half, and often three and one-half years of age, and then sell them as stockers. I need scarcely say this is a most have their animals right enough for the beef market is to feed a little more liberally, and they
would be doubly repaid for the extra amount food supplied; for when we know that it takes
about two thirds of support, or to supply the waste for the food of support, or to suppl the waste ot he system, it
becomes ovident that the only is
by feeding the themaning third $T \mathrm{To} \mathrm{show} \mathrm{how}$ by feeding the remaining third. To show how
much cheaper beef can be produced the ycunger much cheaper beet can be producce the ycunger
the animals sare, let me quote an experiment carried on by the Groff Bros, of Elmira, who in their day
on
wit were among the most successful feeders in Ontario,
carrying oft the highest premiums, both in this carrying off the higy:
country and Cbicago:
"Two steers, bred by Groff Bros., weighed at 12
onths, 1,000 lbs. each, and cost $\$ 3.67$. or $\$ 3.40$ per 100 lbs. The ssame steers gained during second 12
months, 500 lbs. each, and cost $\$ 52.13$, or $\$ 8.68$ per months, 500 lbs. each, and cost
100 lbs. The same sters gained during the third 12 months, 650 lbs. each, and cost $\$ 81.50$, or $\$ 1233$ per 100 lbs."
To corro
To corroborate the above, I take one statement
from Mr. Stewart " "On feeding Animals" ":"A Average cost per 100 lbs., of nine animals, at 12,
months of age $\$ 3.39$
Do., from 12 to 24 months, M.97. Do., from 2. to to 36 months, $\$ 12.54$,"
To show another phase of the ruinous practice of raising animals to two and a-half and hree and
a-half years of age and selling them as stockers, a-half years of arese the experiment proves that a caung, growing animal will take from 25 to 50 per
cont. of the elements of fertility which its food contains to build up its system in the shape of bone and muscle; while after this time, during the fat
tening period, it will return full 95 per'cent.
 contains back who follow such a system are simply manufacturing so manv machines out ore over to their more fortunate neighbors to use for a most
 tice largely has been to buy these very a amans
which other farmers persist in selling. In pursuwhy such a system great care must be taken in
inelection. Buy good animals, and those in good condition Stockers which have grown to be two
or three years old and have not tormed a habit of or three years ore are undesirable and seldom prove
taking on fat also be taken to have them stabled before it gets too late in the fall or they will lose flesh. a succession of light frosts, it is time to have the animals stabled. Every farmer should have some settled systen of feeding
which he intends to pursue, and for this purpose have his fodder prepared so that his animals can be ed regularly and liberally from the start. When
 stomach, calculated to digest ber be fed upon con.
food; therefore they should never be centrated grain alone, but always have it mixed
with bulky fodder, such as cut hay or straw, corr with bulky fodder, such as cut hay or straw, corn
silage, etc. In the feeding of grain it is much more silage, etc. In the feding of gran itis much mor
profitale to give a mixture rather than confine our prock ta a single variety. For instance, experiments
stave proven that eight. pounds of bean meal will give one pound increase in live weight; eight pounds of pea meal, ditto ; five or six pounds
linseed cake, ditto. But four and a-half pounds linseed cake and peas, in equal proportion, will give one pounds linseed cake and beans, in equal propor tion, will give one pound increase in ine weight;
therefore it is evident how much more proftable will our results be by feeding a
than by co a single variety, Great regularity should be maintained in feeding.
It is surprising how readily animals will learn to know just when to expect their different rations. If any of these are withheld for an hour or sot hey plied. Cleanliness and tidiness should also be en couraged and enforced. Animals should be given.
at each feeding only what they will ilic up clean.
As far as possible the same feeder should be allowed As far as possible the same feeder should be allowe
to feed the animals continually: and above and beyond all, if we desire to obtain the most profitable results from the food consumed, we mustaccompany
the food with the kindest and most humane treatment. There is no place in a cattle stable for a pas-
sionate man Animals do not thrive if excited and irritated. They must be taught to regard their
feeder as their best friend.

The Manitoba Stock Yards.
The fine engraving of the Winnipeg Stock ards, which appears in this issue, was reproduced by our artist from a photograph of the yards taken of the trade in export cattle, the C.P. R. doubled the capacity of the stock yards this summer, and still they are not half large enough; 1,200 head can be comfortably quartered, but on more than one occasion this fall fully 2,000 head were crowded into the yards. It yards. full of splendid steers-big, thick-resheod meaty fellows, mostly wello Hereford was also predomis in evidence, while a sprinkling of Galloway and Polled-Angus, and an occasional Highlander, and Pore to be seen. As previously mentioned in these weremns, upwards of 40,000 head of cattle have this season passed through these yards, chiefly for ex port to the British markets. Of this number the big cattle shippers,

The Advantages of Keeping Sheep.
We will try and mention a few of the advanWe will try and mention a few of the advan-
tages that have come under our notice. Sheep are among the best and cheapest mediums for improving the fertility of the soil, which is a very imporpresent time. One of the best ways we know of is feeding on rape, when the manure is so even in
spread, and if they show any partiality, it is in spread, and poor high places the most manure. Again, when running on pasture during the
summer, there are none of the domestic animals so summer, there are noeds, which is also a great advantage. The practice of folding sheep at night on meadow lands when feeding on rape, etc., made a marked improvementing a yard in the meadow field, of hurdtes, which may be dog-proof;
and if sheep were thus kept and the pen moved and if sheep were thus kept and the pen moved
daily it would be a great deal more advantageous daily it would be a great deal more advantageous
than bringing into barnyard each evening to be safe from dogs. In both winter and summer they
will do well on food that is not relished by or profit will do well on food that is not relished by or profit-
able to feed to other stock-weeds, in summer, and handled some 32,000 head; of the total number, pea straw, light oats, etc., in winter.
down the cost of production at every point we can, keep the very best we can, and keep up and raise he good name of Canadian lamericans raising as We now occasionally hear of Americans rams they hood bought from Canada is being felt), but the Werld's Fair proved in a very clear way that we were clear ahead, and also proved to beat in the
was a breeding land that is hard world us combine the Canadian energy with the Let us combine the Canadian energy with the steadfastuess of our and depend onit there is success ahead. It takes considerable time to understand thoroughly how to manage any line of business, and if in do not take such as the present, we throw sheep are high in price and all those who held on are making money, the time a good flock is worked up prices will have begun to decline ; then tit w, which is correct if one
there is no money in sheep, is always ready the wrong time, ven in thes times there are some making money in sheep, up at the head of their class. ments, in the price of lambs particularly, for a good


In fact, they fill a place that none of the other
farm stock can, both in manuring the soil and in tarm stock and of feed into money that other stock
turning a kine
could not Besides this, there is no other line of could not. Besides this, theaply housed and cared
stock which can be so che stock which can e so chass of stock is there so little
for. (With what clase for. (With what asingle-board shed, battoned and
labor?) Even and free from draughts, does as well as any of animals, the daily cleaning of pens and horses, has not to be
so important with cattle ast, also, not be forgotten so ine with sheep. It must, also, not be forgotten
done
the done every sheep returns an annual revenue of
that ene of wool ; and a crop of lambs reaching 150)
flec fleece of wool; ; and a ewe flock is not uncommon.
cent. increase of the er They can also be prepared for market withes to feed off
little expensive feed, such as it little expensive feed, such as it like the present, cattle or hogs
when lambs are low and wool not high, they pay wheir way. if properly handled, and when prices
their looking back
are good they pay a good profit. In loor in America, are good they pay a good proft. worth, in A merica,
thirtyone years, wool was thirty one years, wool was and sheep men were
from 810 . to $9 *$ per per $1 t$, a expecting then to see it reach \$1. No wonder the
old gentlemen wish for therd , ,limers they old gentlemen wish or the. But we do not need to expect the return of such
imes, so our duty is to study our business, cut
nitoba and the Territories have contributed bout equally. Besides the Eastern shipments, we and nearly 6,000 head of one and two-yerm olds have passed through on their way pend Ontario to the ranches. where they wefore start year or two on the nutritious pastures bets of Grea ing on their long journey to the markelled and pro bided with large racks for hay, and ancrowded the supply of water, so that when not olves in comfort steers can feed and stretch evidently determine
the Canadian Pacific being evid to do everything in

In a United States exchange, H. B. Gurler, whe owns a dairy herd that averages ise work of thatin annually, says: in one of the most profitane exercisindividual cows can engage in. We are not improve dairy farmbusiness sense when we Any manufac-
ing ood bes. Any mantuni-
this opportunity to help, this opportunity onan who allows such orp to quit
turer or business man somn he compelted men in his
ties to slip would sont compete with me ties to slip would soon he could not compete with me
business, as he cole
line who were looking after all the leaks."
number of years. and may say we are of the opinion that within a year or two we will gee a opiniked improvement in the price of that, product;
mark, although things are dull at present, let us keep
and and, although things are dull at present, a good tim up our heart and believe - "oner.'
coming, boys; wait a little longer.

## Oats for Stock.

der many stock feeders to ndervalue oats for feeding stock other than horses. Now, we have an immense yield this year in many parts of the North American Continent, which wil eep the price comparatively low. Oats are richer in protein and fat than many of in themselves just grains; in fact, they combine in ration. Not about what is considered a well-s of animals in wellalanced proportions, but rarely, if ever, do animals ecome sick by over-feed to an oat diet. feedIn view of their al,undance and cheapness, feedor other foods. To growing cattle, sheep, or milch cows, ground
than they are.
 This important subject has not received the close consideration it deserves from many farmers. To feed judgment in adapting the food to the kind of good judgment in ind and to the different stages of development. Young cattle should be fed bulky and easily-digested
food; food suited to the production of bone and food; food suited to the production of bone roots bran, crushed oats, etc. Young stock, fed on such food regularly and moderately, develop into
strong, healthy animals. A diet for young animals strong,
containing an excess of rich, concentrated food
tends contaniog much to the production of fat, renders an animal liable to disease, and is likely to check od stant it ing to the object d desired. For breeding pur-
accord in
poses is is important that both male and female be poses, it is important that both male and female be
fed on food that will produce bone, muscle, and flesh, instead of fat. phe live stock of the Ontari igricultural colle for
Cattle.-On the $\begin{aligned} & \text { 6th of Nov., 1894, } 16 \text { steers rising }\end{aligned}$ three years old were purchased by the Farm set, at 3 it cents per pound, the average weight per animal
being 1157 pounds. They were fed largely on rape morning, a mixture of cut hay, chaff, pulped roots mord engialage, about 25 lbs. per day $\dot{\text { and }}$ also 2 lbs. of
crushed barley and oats, with 1 lb. of bran per day he cost of feed per day for eald During Jat ruarrs and March they received no hay. The foo
fed to them was a mixture of chaff, ensilage, pulpe fed to them was a mixture of chaff, ensilage, pulped 12 noon, and 6 p . m. . the cost for each animal being 8 cents, per day, including 4 liss. grain and bran,
With these rations from the 6 th Nov. till the end of March, 114 daass. they gained an average of 265 lbs.
per animal, or 1.84 lbs . per day. Allowing 40 lbs . per animal, or 1.88 libs. per day. Allowing
each for shrinkage, the net gain was 1.56 lbs. each per day for 144 days.
Fimal, or, say, 1 libs. liber day. Cut hay and clover animal, or, say, 1 ses. per day. Cuthay anded to the second mixture mentiond abovere. During May the increase was only, 26 lbs. per animal, say five-sixthsi. per dis. pran, with cut hay, whaft, ensilage, and pulped roots mixed together,
calt, 50 lbs. per day to each animal, the cost of the
being about 1 ocents each animal, per day. and ensilage, mixed, 45 lbs . each par day, with ground grain (barley, rye, wheat and bran, 7 lbs.), the cost being 12 cents for each animal per dayy
The average gain in weight for each animal was $i$ 1b. per day.
 $\$ \$ 2.00$ per ton
The milch cows were fed the same as the steers 20 lbs of mangels per day when giving milk. 20 It will be observed that the greatest gain for the food consumed was in the first five months, while the steers were fee last three months they were fed
digested food. The lat digested loss, while they were being fed on the stronger and more concentrated food.
To of Halifax, Nova Scotia, at 5 t cents per lb. live Co., of Haifax,
weight, and shipped to them on July 26 th .

 $\$ 721.03$.




Tototal eon
Cosit for for foo

## $\underset{8}{\$ 888}$

Net gain for 16 steers ,
Net gain for eacll animal.

## 

The manure is taken as equal to the cost of the
labor for feeding, etc. Had the stock been sold in May, as is the custom, there wo from the above much larger profit, is will be seen from the above
figures. They were kept untit July, that the large
俍 nigures. of farmers who evist the College during
number and July might see the result of this method
June of feding. The principles of feeding pigs are similar
Pigs.
隹 kept for breeding purposes shoula be fed on food
that will form bone, muscle, and flesh, instead of fat. that will form bone, muscle, and hesh, instead owice
The brood sows at the College Farm are fed twion
day, on boiled roots, either turnips, mangolds, sugarbeets or potatoos, mixed with bran and middlings.
The young pigs are ted the same kind of food three The young pigs are fed the same kind of food three
times a day is they have no milk for the young
pigs, for three or forn weepk after weaning flax

animal : and the increase in weight is over 1 lb. per
day. After five months, untili sola, pea-meal was
substituter substhated for middlings The following will show the results from four
lots of cross-bred pigs, that were sold to Messrs. J. A. Leaman 26th:


There was little difference in the quantity of food consumed by the different crosses; analf an
food was limited to what they ate within half and hour of feeding. The Chester ahter farrowing, so
from fever for about a week after that her pigs were bady stunted at the start, from
which they did not recover until between four and five months old. The pigs were inspected by two of the most prominent pork-packers in this Prov-
ince, and the Tamworth crosses were pronounced the most suitable for their purpose.
In order to have roots to boil for
the year, about two acres of sugar-beets are grown. the yar about tho acres
They will keep until the frist of Aupust, when the
new crop of mangels is ready to feed. For a time new crop of mangels is ready to feed. For a time
both tops and roots are boiled. By this system of both tops and roots are boiled. By hats systar or
feeding, it is estimated, the best qualityof pork can
be produeed for two cents per pound live weight.

## The Cattle Quarantine.

From an address by Hon John Drydea,
In an able address before the reorganized Domin-
ion Cattle Breeders' Association, Hon. John Dryden, Ministeŕ of Agriculture for Ontario, after pointing out the growing importance of Canadian
live stock husbandry, as shown by our increasing exports, and the the
"It is not enough, however, to have an important industry, which is sought to be represented in this
way. Those who are engaged in it must express a way. Those who are engage con mast express for the common good. There are some things in connection with cattle-raising which I can accom-
plish terfectly all alone; but there are other things plish perfectly all alone; but there are other things
in connection with the industry which cannot be nrought to pass without the union of those interested. It it evident that if the cattle industry should be laboring under any obstacle which can
only be removed by recourse to those in authority in our country, a single individual presenting the case would have but little weight. But when a
strong association representing vast interests, strong association, representing vast interests,
unitely petitions the authorities and properly presents their case, even the dullest politician comes
to see that something must be done by way of to see that something must be done by way of
relief. I have a case in my mind at present. Those relier. Thave a case
of us who are eng in breeding thoroughbred
cat cattle know he dafricut situation at present. Fotes
merly we had a large trade covering various States of the American Union. Our cattle, because they
were imported into poses, were allowed to enter free of duty. They are posill allowed to enter duty free, and yet the trade is
stil
prent practically pronibited. Athas been brough advontage
this way. Formerly Canaa enoyed an and
Find his way. Americans, because our cattle had access
over the
to the to the inland markens of toate slaughtered at the
of the United States had to bold our position in this
ort port oct, a quarantine was placed on American cattle
respen
at that time there was coming into Canada. At that time there was
danger of certain diseases, which then existed, being brought into this country, and a clean bill of health. Notwithstanding this, an
cmbargo has been placed upon our cattle similar embargo has been placed upon oen over and over
to the Americans, and it has been again declared by the British authorities that we have sent from this country pleuro-pneeumonia-a
disease which no man, expert or otherwise, can find in the Dominion. This statement serves as an
excuse for the British authorities to maintain the embargo. Wene have hoped to see it removed. The
case has been presented the three diferent Govern-
ments, but the answer has always been the same ;
and our conclusion now is that the majority of
those whom the Government represented do not hose whom the Government represented do not
wish it to be removed; and it is likely, therefore, to remain. If this be trua, why should this quarantine be kept up? The quarantine which the Amerifrom entering the United States, but it it placed
fana there because we have place our quarantine
against them. At present there is no cattle disease against them. At present there is in tathe disease
in Canada- which can be carried into the United States, nor do I know of any disease in the United States, nor do know on any hise into. Canada. You
Staness which could be brough
cannot keep up the best herds of the country cannot keep up the best herds of the cound
unless the proprietors of these herds can have a very extended market. It will be impossible to
maintain them in their present flourishing state if the market be liimited to our oown Province or Dominion. do alow hese in influence will in the end
quality and decrease in react upon the ordinary cattle of the country. It is, therefore, of the utmost importance that they
should be maintained. Now, this is a matter that cannot be handled by any single individual. But if the cattle breeders are of one mind, which $I$ think they are, ther the presentation of the case from a
strong association, representing the best of our strong association, represenent industry, would be
farmers interested in this great farmers interested
necessary
reg order to secure any relief in this necessary."
regard.

An Embargo on Sheep.
As stated in the Auvocate some monthg ago,
he British authorities have been strongly urged by hose representing the breeding interests there to on landing as a settled policy. A recent cable dis patch states that this is now to be done, and also that sheep are to be incluaded. For Months past ournals showing that they regard very seriously the competition from America, Our Montreal market report in this issue states that ap to over 180,000 an increase of 51,000 above last year. The
direct basis of the clamor that scab (a disorder with which British flocks discovered in several shipments. A sheep embargo would compel the finishing of all sheep here,
so that they would be ready for the butcher wefore shipment from Canada, as is now the case
 creased slaughtering aceint lies, wock embargo is on
the news that a permanent the tapis. The complaints of the British farmer have beeen many and loud, and under coyer of the
hrusade against animal diseases (with which we crusade against animas been sorely aftlicted) they will accord whatever advantage may come from shutting cut all but finished stock, thus getting rid of the competition of an inrush of cheap animals
for feeding purposes, besides, as shey put it, llosing for feeding purposes, besides, as they
one possible avenue against disease.

## FARM.

## Potato-Cake for Cattle.

A recent number of "Le Bulletin des Halles" Coneains an article by MM. Nivere and Hubert, Bezers, on the manufacture of potato-cake. These authorities state that they have made numerous the form of cake with the most successful results. The method is to ratate the potatoos and to press the pulp by means of a press similar to that used for
beetroot. Potato-cakes prepared in this manner contained, when dry, about prepared to 9 per cent. of solid and can be very advantageously used for cattle. With the addition of meat or ifsh-meal they are said to form an extremely nutritive and digestible
feeding stuff for fattening stock. The liquid which feedtrasted from the potatoes by the press contains
is extract is ertain nutritive matter in solution, and need not be
cent entirely lost, as it would be possible to utilize it to
some extent in the feeding of stock. The great ad. some extent in the feeding of stock. The reat ad.
vantage of the potatocake lies, it is maintained, in the concentration of the nutritive qualities of the being preserved for an indefinite period. A Manitoba correspondent of the Farmer's ADVocate has suggested that oats and barley might with advantage, in shipping, etc., be pressed
into solid cakes, like cakes from the linseed mills, or into solid
larger.

Agriculturists in Session.
The annual meeting of the Ontario Experimental Guelph, on the 12 th and 13 th of December, 1895 , for which an excellent programme is being arranged.
J. A. Uraig, Professor of Anmmal Husbandry, Madison, Wis,; John Craig, Horticulturist, Dominion
Experimental Farm, Ottawa; Miss J. Livingston, Superintendent school of Cookery, Ottawa; and addresses. This impoctant meetinan, coming as it
does at the close of the annual Fat Stock Show, and alss the annual meetings of the Dominion Sheep
and Swine Breeders' Associations and the Guelph Poultry Association, should bring together a much larger concourse of visitors than usually attends
the " (nion."

## Successful Culitivation.

 SIR,-I feel impelled to give my brother farmers my experien think it proves that growing fodder corn, properly cultivated, is the best possible pre paration for daily from the stables and spread it on the snow. As soon as the frost was out sufficiently th manure was plowed under and the ground harharrowed again to kill the weeds then germinating harrowed drilled with shoe-drill, one-half bushel Dakota White Flint corn, rows about 28 inches apart. When the corn was about three inches high harjust showing through the soil) without materially njuring the corn. This treatment left the ground o clean ther with a Planet Jr. winged steel cultiator. Two boys with hoes followed the cult vator, cutting and pulling any stray weeds from the rows. They could easiy keep up to the cultivater, clent prevented any weeds seeding, and whentreatmen was cut by a binder with "kicker" the
the con when the corn was cut by a bi
land was absolutely clean. cut early so as to barely
The corn thus grown, cot escape frost, is the they eat it all, not leaving a butt ven, as it is the je land was fit to work in spring of 1894 I gave this corn stubble a stroke across the rows with Acme harrow (a common harrow will do nearly as well, though it will pul shoe-drill, $1 \frac{1}{2}$ bushroots up) and per acre, going with the rows of old
els of wheat pabble. (The corn should be cut as low as
corn stubbled corn stubble. (The corn she fodder is secured and ess corn stubble lett on ground.)
Although the average yield of wheat in Mani-
tobe in 1894 was low, owing to the drought, I threshed 31 bushels No. 1 wheat per acre from this field. In the spring of 1 I again drilled $1_{\frac{1}{2}}$ bushel stubble absoluter have just threshed $56 \frac{1}{2}$ bushels pe
of wheat, and
and acre from it, all No. 1 , unfrozen grain. Ine dressing is a valuable experience. Tha plowing raised one crop of green manure crops of wheat, as above, which
of corn and two cory
even at the present price of wheat, pays very well for work done and all expenses, leaving a good acre raised on stubble ground, unplowed, is some thing uncommon. I may say that the land is measure, using the bagging attachment, counting
two bushels to each bag. The grain was cleanly threshed and is expected to go two make the actua weighed yield 62 bushels and 42 pounds per acr 1 have kept this grain in a separate bin, and yield weighing it carefully this ascertaing of fresh manure is a benefit to the immediate crop of corn, it is a much richer plant-food for the first crop of wheat to follow and a still richer food of wheat. of wheat would be interesting to know how it would
feed a fourth crop (the third of wheat) without powing, I am tempted to try it
As a result of this experiment, I would strongly Advise farmers carrying a number of milch cows to manure as much this system.

1st-That by spreading fresh manure, ungermiated foul seeds are also spread.
2nd-That the cultivation of the corn in a busy 2nd-That the cultivation ot too much bother that in this dry To the first I would answer, that in this dry country it is next to ind gecompose it and germate the foul seeds; and I do not care if the ungerminated foul seeds are turned under for a few years, becaused up to the difficulty in killing them all when turned up to the sun, which winp berience has taught us how it should
the land, as expering this fresh
be fallowed. I have been spreading manure in winter on my lands for years, and and have as clean a farm as I see in alm my excepting Mr. Elder's, near Virden.
To the second objection woun of the corn crop is the only extra work hoys' work following, and th
cultivation and extra value of the fodder crop for milk over any
other we have is well worth this extra work, to say nothing of the plowing
wheat, which is saved.
Had I plowed my field in question for each cro of the two last above described, that which I hav
have been more than double th. A. Dovie. expended on it.
Beulah, Manitoba.

Experience in Potato Feeding. J. D. Smith writes as follows in the Dairyman
nd Agriculturist:-"I know from practical ex

barrel and mix with what skim-milk we have
Our twenty-six pigs now on hand are making a very fine growth on this diet. Fed judiciously to
cows in milk, I value them equal with grain. This ows in milk, I value them equal with grain.
may seem a broad statement, but I will explain.
We milk more or less of our cows all winter, and Wr experience is winter milkers need liberal grain feeding. It often occurs that a cow will begin lase disporition on the part of the cow to mince, remove her grain and substitute a feed of potatoes,
Two or three feeds of them regulate the stomach, colts and calves love them dearly, and they are great value when these animals are contined or dry thing less than forty cents per bushel, preferring to keep them and feed to stock. The present seaso is an excellent one for farmers to

The Care of Farm Implements,
Among the many jobs to be completed before winter sets in is the cleaning up and putting away of implements and farm machinery. On many wellregulated farms, where there is a roomy, convenien shed, no matter how cheaply construced,an, the job is who use the implements are tho never allow work, Upon too many farms, however, this is not this case. How often is an implement left at the very place where its labors ceased ! or, perhaps, by more careful hands, it is taken to a bare corner of At field and there left exposed to ald soring which the implement may have been alternately soaked, dried, rozen and thawed, it is probaby re or implemen shed just as it has been brought from the field, overed with accu altogether in the precise condition that is most nd altogether in the precise con of its substance, the njury of its working parts, and the permanen mpairment of its useruntil it is again wanted in the Mitl. Most probably it then receives a hurried
field. pectation being that it was lad away in fair workNow, order, and it should be found in that be other than fallacious, a the above mentioned unfa. In many cases a trial produce damaging efects. defective and incapable,
will prove the implement and has to be dispatched for repairs.
time is wasted and pressing operations delayed, time is wasted and pressing operations detrievable perhaps wis may seem overdrawn to some farmers,
loss. The
but then it is a good picture of their own experience if they will but admit it. Not only is here loss from delay upon the farm by waiting the machinist, who is overcrowded with work, does not give the perfection of work the with his utmost efforts, the busy manufacturer may have to detaind the machine longer than was fully ripe and his
the farmer, perhaps with his crops able time. Wright, of Technical College, Glasgow, Prof. Wright, of Technical College, Glasgow,
deals in an able maner with this suhject in the deals in an armer and Stock Breeder." He goes on
English "Farmer to explain that, as implements are usualiy and
structed of wood and metal, the contraction and expansion of the
"It is true," says the Professor, "that the greater part of the implements of the farm cannot be wholly preserved from the infuences that have been men-
tive atmospheric agencies in tillage or outdoor tive atmospherice employed in tillage or outdoor
tioned. Those operations must, of necessity, be scause complete
good deal of weathering. Now, beaus preservation can not be obtained, in too many preit is not considered Worth whie, harrows, scuf-
caution whatever. flers, etc, , receive foeks or months in the wet season
to lie about for weering the head lands, or smothered of the year, cumbering the head ecorner of a field,
in the dank herbage of some coler, and alternately exposed to every passing frost and thawed agai
chilled by every evening's by every morning's sun, while hayrakes armath o
mowers may be seen huried in the aftermath fields from which the hay has long been gathered. progress of deterioration and to shield implement from the wasting influences
few and simple in character, but not unimportan ew and simple very simple, practical direction is
in effect. One ents employed at
great consequence. All implements
 olle, periods, such as winter, they shouired, if neces
long pernanled thoroughly cleaned, repair
overhale
 $=2=2=2=$
$\square$

THE FARMER'S ADVOCATH.

THE HELPING HAND.
Handy Farm Contrivances and Methods.










Handy Hog Catcher--First Prize


Eluis F. A TINE, Lambton Co form of iarge pinchere, as sargewn
in the accompany ing illustration
The handle of on ${ }_{\text {at }} \mathrm{jaw}$ is into which a wooden handle (B) II m. A rope is fas-
tened to handle of opposite jaw, which
passes through hole
$\qquad$ at C. When you wish to catch a hog, place that Vance the pinchers to encircle the leg of the hog,
then pull quickly on the rope and withdraw the wooden handle, and you have the hog secure To prevent a soo from crushing her pigs against the wall when lying dow, the sides of nest-room in the form of shelves about eight inches from floor. Then when the sow lies down, instead of crushing the pigs, they will slip beneath this protection straw.
straw. break a kicking cow, take an old bridle bit
and buckle one ring securely to each ler with a and buckle one ring securely to each leg with a
short, wide strap. In this way the worst kicker can be securely milk med, and in a short time will
be completely broken of the habit be completely broken of the habit.

A Good Plow Slide -- Second Prize.
 Simeon SNYDER Take a two-inch plank
two feet long and one
foot wide: then foot wide; then take a
piece of wood nine
inches long and two inches square; cut a notch out so that if it be
bolted on this plank with the notch downwards, the plowshare will just fit in. Bevel front end of
lide. When all is fixed place the plow on top slet the point of the share slip into the notch, and
you can drive out into the field very comfortably, you can drive out into
and not wear the plow.

One Man Cross-Cut Saw.

HAG IU

## ( )

 Roberr WArk, Richmond Co.,Que. A is a twoinch plank, four feet long, staked to the ground:upon it is bolted a right-angled brace, riveted to an (C) which joins With the double fence wire (D). (C) which joins with the double fence wire (D).
This wire is fastened securely to one handle of the cross-cut saw (E). The handle (F) is grasped by
the sawyer. It will be readily seen from the illustration that the old hendsaw (B) acts as a spring
which aids in hauling the saw (E) back through the log.

Log Wagon Wheels
While on a trip through the south-western por tion of Ontario Province, we noticed a number of
low-down wagons in use. The wheels were of buttonwood logs, about fifteen inches in diameter. The logs were sa wed off the length of a wheel hul
and sent to a wayconmaker to insert the iron loving of ollers serve a good purpose in hauling manure
ron stones, ett, as hey are as low as a steing , mand will

## Tanning a Sheep Skin

There is nothing better suited for a buggy or Kenosha, a tanner, tells, in the Rural New Yorker, Kow they can be tanned at home. The method is as follows: Within a few hours after the skin is
removed from the animal, put it to soak for 24 hemoved from the animal, put in tor sorrel of fresh spring water. Then take
hours in
and hours out and lay it on a barrel, flesh side up, and
scrape it thoroughly free of flesh, tallow and bood.
 Tf the skin has become dry in places, more vigorous scraping will be necessary. If the skin is pecond and third day atter removing from the
seater. To clean the wool, tramp or pound it while
water n the barrel of water before taking out for the second day's scraping. Also scrape lightly on the
wool side with a woon scaper while water is
being dashed upon it. Should iron come in contact with the wool it is liable to color it. When the up, and apply the following mixture: Pulverized atum, one-half pound ; common salt, about one Sprinkle about half of it in a nice even layer over the skin, folding the edges over to the back bone, then roll up tightly from the head. Keep it damp
in a cool place for $a$ week, then open up, scrape off n a cool pace tor a week, then open up, scrape of
the application, sprinkle the skin with a pint of water and apply the remainder of the tanning mixture, and leave rolled up for another week, at
the end of which time hang it over a scantling, and after two or three day's drying, scrape down to wards the ground with a blunt knife until it is softened on the whole flesh surface. Then com
out the wool with a horse-mane comb, when you
owill will have an oruamental and warm foot-rug or lap cording to taste.
One
Wetter than the foregoing: S pread the skin, flesh side up, sweep off all coarse dirt, salt, etc., and cover with a mixture of two parts salt and one o
each of alum and saltpetre, fold the flesh sides together, roll tightly, and place in a cool place for in a barrel, and pound out in strong soapsuds, with rinse. The skins may, with advantage, be put through a large clothes-wringer. Care should bl warm, stretch and nail to the side of an unpainted days, the hotter the better. When well dried, tak down, lay on a bench, flesh side up, and do som vigorous rubhing with No. 1 or a sandpaper, a few
minutes will make a skin as soft as one could wish

## DAIRY.

Is the Fat of Milk a Correct Measure of Its Value for Cheesemaking Purposes? Sir,- The year 1895 has been a trying one for our cheese a struggle to continue another year, while patrons of ofder factories who have experienced
good returns during the past are finding their faith good returns during the past are finding their fait
wavering in the old stand-by cheese. Old hands in wavering
the business will remember, also, many years ago. when summer cheese once dropped as low or lower
than this season; but $i t$ did not stay down long Fortunately, the markets are mending as the seaso
advances which will put new courage into the faltering, ones. In a season like the past, it is more important than ever that each patron should receive
his exact share of the fruits of his toil. Inspector find that in such a season the temptation is ver strong to not only recover lawful dues, but also
unlawful shares of the milk pooled at the factories unlawful shares of the milk pooled at the factories If the energy and money that are now expended in
stealing and catching the thief were expended in the solution of a system which would encourage
hhest milk and honest returns, and discourage all honest milk and honest returns, and discourage all
dishonest practices it would be the better for the dishonest practices, it would be
cheesemaking industry of Canada.
For two
For two years the Dairy Department of the
Ontario Agriultural College, Guelph has been Ontario Agricultural College, Guelph, has been
 great hullabaloo was raised in several quarters.
The gods of the children to the south were being spooken against, and their worshippers in their
native country and in Canada, were exercised native country, and in the mana, were exeresed
very much ; in fact, there was stirring of the dry bones.
Befor Before giving the results of our work in this
connection for 1895, as you suggest, allow me to quote briefly from a, letter recently received
from the secretary of one of our from the secretary of one of our large fac-
tories, where the two per cent. system has tories, where uring the year. He says. "At the close of the first year that we paid according to the
fat readings, I was not altogether satisfied. For, fat readings, , was not atogether satissie. .he ord
although it might be an improvement in
system of maying entirely by weight, still t thought system of paying entirely by weight, stilll t thonght
there should be something like a sliding scale, as there appeared to me the rich mmilk, except extera
and to the gain of the quality in the cheses made from the rich mink were
made out and brought in for consideration. The news system of adding two per cent. to the readings
this year accords beter with
nit opinion and hene
the figures."

He further expresses himself as not altogether satisfied yet, largely for her reason that in some
months when the average per cent. of fat in milk is higher-say, July and August, it requires more when the milk averaged a lower per cent. of fat. It think this can be explained on the ground that
spring cheese usually (or should) contain more spring cheese usually (or should) contain more
moisture than summer or fall cheese ; there is less loss by shrinkage before the cheese are sold ; "and there is less trouble with "gassy" milk and "fast
workers," which do not produce so well as milk of good quality. But I must come to the experiMeonts. I shall not trouble you with tables of
figures showing the yield of cheese per pound of
俍 fat in rich and poor milk, as I think that readers
generally prefer the results stated in words rather than in figures.
For the eonths of April, May, June, July and
Hugut, which are all the monthsof which I have the ust, which ate our experiments give the same result as last year, viz., that a pound of fat in poor milk, testing, say, three per cent. of fat zoill produce ing, say, four per cent. of fat and over. The durage April was 4.21, which yielded 2.51
durings of cured cheese per pound of fat. The
pous average fat in the other lot was 3.39 , which pro-
uced 2.72 pounds of cured cheese per pound of fat. In May, when the average was 4.09 per cent. of fat,
he yield of cheese was 2.55 pounds per pound of fat, while the other lot of milk, averaging 3.30 per cent. of fat, produced 2.69 pounds of cheese per pound fat. June milk produced 2.55 pounds neese poponds of cheese when the milk averaged 3.16 per cent. of fat. July, with an average of 3.78 . the lot averaging 300 per cent. fat produced 2.95 pounds cheese per pound fat-the highest yield time. In August, when we had the lowest per cent f fat ( $(2.91$ ) that we have had durng any month,
vield of cheese per pound of fat was 297 , while the milk averaging 3.82 produced 2.81 pounds of cheese per pound of fat.
that 1 tories, as we need normal milk of good quality and containing about 3.5 per cent. of fat to make good xport chesese. Nege erimming or watering, as I am
this will encouran
ot disusing such milk, but normal milk. What ve are after is to solve the question as to whether th yield of cheese is in proportion to the fat contained
n normal milk. I have no hesitation in saying hat the yield of cheese is not in proportion to the at contained in the mils, herefore the founation on which rests the system of payment for milk at
cheese factories, according to the butter-fat, is inse cure and untenable unless it can be shown that extra
milk. Thality of cheese
moint $I$ is phall not discuss at present, as my article will be too long
Having sioken of the incorrectness of on system, it will be in order to suggest an improved one. At the present time I have no apolagy ings. Further research may disclose something
igh . better ; but at present it
Collowing table will show

##   <br>    

 ws that the adidition o wo per cent. to the fat readings gives a slight ad antage to the richer milk, under 4 per cent., whecompared w with the actual value of the cheese pro duced. This is the strong point of the system, as say milk with 3.5 per cent. fat, which is rich ellough to make first-class Cheddar cheese; ; but when the milk tests over four per cent.i, as in the
months of April and May, then such milk does not receive any advantage in fact, is placed at a
disadvantage. It is a question whether milk con taisivantage. It is a question whether mest made
taining por cent. of fat and over is best mate up into
thing else.
The avere percentage of fat in the milk at
the factory referred to (which is one of our best) is


A Plan for Securing Greater Uniformity in the Quality of Cheese.
One of the requisites in maintaining the high
standard of Canadian cheese, and retaining first stance in the best markets, is uniformity in quality,
place as well as fine quality. one half the product from the other half, where finer
sale of goods are made, will be injured, and the reputation those factories where fine goods are made to have the quality of the cheese made in neighboring factories To do this successfully there should be co-
own, To help one another.
Though the finest quality of Canadian cheese is made in many youched the proper standard. It will have not yet reached fary factory, in that or any other district, if the general quality can be raised equal to that of the fing. must be carried out, and this can system of mamplished by a uniformity, of instruction and inspection. We have an example of uniform methods of work in connection withe output of factories factories there is said to be of a standard quality throughout. This has been brought about by having in all the factories.
of making
The Western Ontario Dairymen's Association has under consideration plans for bringing about still greater uniformity within its jurisdiction. mitted to the factorymen. The number of factories uniform instruction at all by one or two perrons, so it is proposed by the Association ty
them into five or six groups or syndes. A thoroughly skilled maker will be placed over each combination, to visit the factories regurary and give instruct will be employed to look after and in petent mese in charge of the syndicates.
struct those instruc To carry out such a amount of money will be
tion a considerable amone required. The present Government grant would nequired. sufficient to meet this extra expenditure.
not
Therefore, to financs it successfully, the factories Therefore, to financs it successsul, i, the Associa-
would need to contribute ; in fact, would cannot depend upon each factory share of the exgroupes or syndicates proposed cannot be carried
penditure, the scheme out. There are estime manufactured in Western
22,000 tons of cheese made were
Ontario in 1894 . If each ton of cheese made wer instrueters for syndicates, to pay for four or five mstruid enable the Association to do a large amount of valuable prat portion of There are about 340 cheeses suggested of raising this Ontario. Anothe to have each factory pay $\$ 10.00$. This would furnish about the same would not be as fair a basis as the other. tons of cheese as much a one making 100 tons. Copies of the scheme, when perfected, will be sent to the factory represen the winter, and submitted to the patrons for their approval. arrangements will co-operation of the carried into effect next season. can only be achieved by hearty co-oper ation. adian dairying for years past has direction. Sys-
good harvest from efforts in this dis good hatic instruction in dairying has brought the business greater profts,
object of this new proposal. Whenever we begin to relax our efforts in improving lose our hold upon the
so soon will we begin to so seose markets of Great Britain. The English
chese plansumer where his food comes from as about its
paality. With him the place that sends him the quality. With him the place that send
finest quality is going to get his custom.

## VETERINARY

Tuberculosis Among Cattle. A paper read by y. J. Thompson, Veterinarian for the Province
of Manitoba, betore the Manitoba Dairy Association I
 long history a possible,--
concise a was and the disease pre-
. First-To what extent vailing in this Province orber of cattle in different
inspection ot a great num parts of the Province, and after having used the of
tuberculin test on about 120 suspected cases. of
 styeyed, and post-morten helps to prove the great
the great majority (which her ant anent for detecting the
value of tuberculin as an age disease in its earlier stages, while quite and after a
to detect it by physical examination), and
careful summing up, I believe I am , inite safe in carefur sume is not more than three per we will find
saying there
cattle affected, but there is no dollt wo cattle affected, ity of thuse among our dairy cattle
on almost every subject this among others Sot Sowe
will tell you there is
little or or
no a danger;

 ananers the people are exposed to by using milk
ar meat from tuberculous animals, and loualy call for the destruction of every animal aflected. how ever sightly; Ibeieve these are the ewo oxtremes
That there is
dunver trom the use of tuberculous Thiander cannot be successfully denied, as many
nimats smaller animals and caver tave been infected
its use in so per cent.teftut diseased animals the milk is not
 of cases where thedisease hasbeen foud in the udder,
tuberullous nodulues have been found or the disease had ion far adranced that it was
disseminated through the ssstem. "Second-Measures to prevent the gread of taimal coming into the Province. This 1 consider very neeessary, as atatle e reeders in other parts are geting to anterstand enough
want to get rid of any animal showing the least symptoms of it, and as it it so, prevalentin other
 breaing, purposes, especially males, as the tisease (o) By the destution of all animals showing





 infecting it. There is no doutt thaten) eprent io
the disease is caused by the inhalation of the


 person affected with tuberculosis that the disease cattle, as there is no doubt way. ( $f$ ) By care-
originates in some herds in this whe with tuberculin test
"I will be asked what is the use of isolating
them if they have tuberculosis? I answer, to them iaghter as food for man, or for breeding purposes. Thequestion willbe asked, is mean wer in the affirmanimals fit for humat ethe disease is oonaized in the aivgs, liver, or some of the smaller glands. Arofessors careful study of the many tests made rofessors of the
Nocard, Bangs, Williams, and the Pre Bureau of Animal Industry at Washingto ere is others, I have come to the he use of meat from ani-
little or no danger from the mals with locaazed well cooked. Therefore, when none iave a herd with a number of young animals
we have and
slightly affected, as we sometimes find the case, I slightly affected, as we sometry for stock raisers
do not think it right or necessary do not think it right or necessary for cattle, but all that are not required for bree.
be at once fattened and killed.
"Breeding from tuberculous cattle. parance was
herd of dairy cattle that to all appeare, I would healthy and strong, with a few exceptens, wrong if 1 feel it to be a very great gen unless I was fully recom was forced
pensed. It would be quite right and just to pro herd,
me from selling milk or butter fron such a hal but to prevent me keeping my catir progeny, 99 per
might increase my herd with their to be free from this disease, I would consider a grea hardship; therefore, ifere affected with tuberculosi
had cause to suspect wer I would have them tested with the disease, besides that showed physical souns of destroy; the others that reacting with
reacted I would isolate. I would go on and boon as teace as usual, taking away their calvilized milk. I
them and feed them on loiled or sterilize
born would again test those calves when about a free from with culosis. And I believe,
tuberculer certai I wished
stan tubences, I would go further, thant pasture, where it
sta isolate my cows in a distant to isolate wery inconvenient to milk the cows and
would be calvesto run with
feed the calves, $I$ would allow the calver their mothers untiling, I would test the calves with
when, before stabling, the expectation of finding very few, if any, affected
by the disease. There is one thing more 1 wish to mention and to lay a great deal of stress upon,
namely, I believe it should be made a criminal namely, I helieve it its products from tuberculous
offence to sell milk or its cows, or to sell an animal that is tuberculous the pur
been branded as such) without informing the pur chaser and also notifying the Department of Agri
culture, so that the continued isolation could be culture, so Where sold to butchers to be slaugh
insisted on. Whe
tered, it should be inspected by a qualified man.
"These are some of the means I would take to


## APIARY

North American Bee-Keepers' Convention. The Rev. L L. Langstroth gave an address on The First importatents in the United States gave commission to Mr. S. B. Parsons to secure
a talian bee ; and after much trouble, the Italian Italian bee; and ating on the American Continent. Mr. Langstroth stated that the drones from these queens were black; they found, however, that Italian talian queens, purely mated,
drones ; the color in queens
den
Introducing Queens.-Mr. S. T. Pettit, Belmont, Ont, followed upon this subject. Mr. Pettit stated hat many queens, apted under protest, and were
and surely, were accepted. He liked to introduce a often superseded or killed. Hey were less liable to queen to a weak colony; twas to make up a colony of combs of hatching prood, the bee.
young, and the queen perfectly safe. C. C. Miller, young, and the queen perfor.- Doctor C. C. Miller,
The Bee-Kecpers' Union. Marengo, Ill., and Thos. G. Newnion of the Association with the Bee-Keepers Unio.
ind hold of Keepers Une out of ill-feeling, ignorance or other cases where, out have been prosecuted, or bees
cause, bee-keepers hav ordinance or by-law, from have been prohibited, ete. The Union has shown
towns, cities, villagee, etc towns, cith prohibition is illegal and unconstitutional, and cannot be enforced; if they lost in the higher. lower court they invariably won it in the higger.
From the discussion, it is likely that the union will
and in the hands of a take place ; the question was pur-Keepers.-G. M Something of Interest to Bee-Kcepers.-G. M., gave an interesting
Doolittle, Borodino, N. Y., gavers had made address. In it he said bee-keepers adulteration; the ight way was to go to the Legislature or Parliamen penaltues upon adulteration, and then ennoreration. Mr. such methods woud soolittle's remarks fell upon a sympathetic audience.
Address by the Hon. John Dryden.-Thursday vening whs one loses honored by the presence of the Hon. John Dryden, Mriste, President of the Ontario Agricultural College. Mr. Dryden spoke in his usuat pie great forcible and instructive way, porovince of Ontario,
resources of the Dominion and Proved giving instances of the Acts of money allowed for
tion of bee-keeping, the grants of sion in wish you
its every success in your enterprise. You smatl drops, large industry. It is means a great deal. Our peobut taken togethery and thie people in but you can ple in do not realize what it means, but your by
add wealth to this country and to your country by
ade who reprepaying attention to this industry. We who repro
sent the Province believe we help all the people when we help the bee-keepers of oar by year to
therefore it is that we give grants year therefore it is that we give grasta as we can to help
this Association, and assist as far them in their work." (Applause. President of the
Jas. Mills, M. A., Le. D., Pollowed in an adOntario Agricultural College, fhought, and from dress whose present could derse, $\begin{aligned} & \text { which the applica } \\ & \text { that success in }\end{aligned}$ tion, much profit. Doctor Mills saide that epended on farming, more than any other uncontrollable condia nums circumstances; he would ven a farmer to conjudgment it was not ad visable one hine or branch of
tide his whole attention to any one that tide his whole at that it is not wise for him to put all
his occupation ; the basket. President Mills then
his eggs into one his occupa into one basket. President Age and the
his eggs int
spoke of the Ontario Agricultural College and spoke of the intario Agro which had been started,
experiment in bee-keeping in which a keen interest was tangested. Different experiments were suggested.
At the close both gentlemen received the rare
年 Association. Taylor followed upon the subject of - Experimental Agricultural Stationk, ask greater interest be taken in the won "Some Mistakes of Bee-Keepers and Bee Journals." Amongst when things, Mr. pr mistake into the wrong base not to get a man gets by bees, it is another mistake not to simeling
him) of tending and himself
right out of it again before his money right out of company.
have parted have parted company. out of bee-keeping (saying mothing about a big one) takes time and patien
noth
persistent work, as well as special aptitude and persistent work, as well as all this, an extra local
ability; and, in addition to ald ability; and, in addition yield of nectar. But a little
ity for the abundanter fortune may undoubte"
able conditions noted."
Mr. R. Mc K night, Sound, followed upon
"Legislation for Bee-K eepers"; this elicited noth"Legislation new.
ing very not
The following ofers were elected :-President The following officersio: Vice-President, Wm. Me
A. I. Root. Medina, Ohio ;
Mctivoy, Woodburn, Ont.; Seretary, Dr. A. B. B. Mason, Auburndale, Oh
Hutchinson, Flint, Mich.

## POULTRY.

## Fitting Poultry for the Shows.

Now that the fall exhibitions are over, and the
winter poultry shows some distance in the future, a few pointers on the method of keeping the fowls
in the pink of condition may be appreciated by some new beginners.
A bird to
be
A bird to be in first-class show form must be in
the best of healtb. This rule, which holds good the best of healtb This rule, which holds good
with all stock, is fundimental, all the rest being with all stock, is fundimenta, all the rest being
subordinate to it. A bird, , too, must be plump to
stand any chance of winning a premium, but it is stand any chance of winning a premium, but it is
not desirable to retain this plumpness after the not desirable to retain this plumpesess arter the
show is over. In fact, the best results are aiways show is bver keeping birds which are intended for
obtained by kin
exhibition in only fair condition up till within a exhibition
few weeks of the show, when they should be put on
end special treatment, which will give them the much-
desired bloom. Mr. R. Gordon, in Farming World, says: "Three weeks" special treatment before a
show is generally all that is required; and when show is generally ail that is required, and when
the birds arrive home again they should be put on
plainer fare until such time as they are wanted for the irds arrive tione
phainer fare until
show purposes again.
show purposes again.
"Different sorts of birds require different treatment. Games, etc., which require to be shown in
very short, hard plumage, should receive very little
 the highly cencentrated nitrogenous foods, such as
lean meat, liver, etc. A little hemp seed should be lean occasionally, and canary seed may well form a considerable proportion of their diet. Game fowls require a good-sized grass run in order that
they may obtain a strong nuscular development,"
thent The above ementioned writer claims thatsoot-feath-
ered breedsmay haveone meal of soft food daily, with ered breedsmay haveone meal of soft food daily, with
auf allowance of boiled liver. Hemp seed and wheat an allowance of boiled liver. Hemp seed and wheat
may be given in moderation, and it it the practice of may be given in moderacio, and poultrimen to add a
one of Ontari's onst
little tincture of iron to their drink ing-water, which little tincture of iron to their drinking-water, which
has the effect of giving the face and comb a bril has the effect of giving the face and com given to
liant red. Indian orn shoul not be to
Wind liant rea.hered birds, as it has a strong tendency
white feathere
to give a yellowish tinge to the feathers. It has the same eiffect on the legs, and therefore should be
tiven in moderate quantities to Plymouth Rocks, given in moderate quantities to Plymoult Rocks,
Brown Leghorns, etc. Oatmeal has also a good effect upon the yellow leg, and may take the place
of corn in such breed as have yellow legs, and of corn in that corn would injure.
plume
plumage that corn would injure.
Birds with light-colored plumage suffer from
taning when exposed to stron rays of the sun ; tanning when exposed to strong rays of the sum; however, this factor has not much force after this
season of the year. There are two especial condiseason of the year. There are two especial condi-
tions in which ther should not be exposed to strong sun rays: 1st, when the birds are moulting, and,
2nd, when the plumage is at all wet, as at such con-
 light-colored birrs suffer hy strong sun rays, but
liuch as barred Plymouth Rocks sunburn to a rusty such as barred Plym
brown quite
Drown quatte easily. looking atter in order to keep the masses of foot
feathers from being broken and otherwise defeathers from being broken and otherwise de-
stroyed. A grass lawn, kept very short, makes a stroyed. A grass lawn, kept very short, makess
good run for them. No heavy breeds, especially if
to feathery footed, should be allowed to roost, but
fhould be bedded at night on sawdust or fine hay or should be bedded at night on sawwust or fine thay or
straw. When white birds require washing before going to show, great care and some practice is
necessary to do it well.
They should never be sent to an exhibition before they are trained and accus-
tomed to being examined, as the judge will have to tomed to being examined, as with the show pen at
do. A little acquaintance with the home will give them confidence when they arrive
at the place they have been fitted for. An occasional dusting with insect powder will keep them
comfortable, so far as the absence of vermin will comfortable, so far as the absence of vermin wil
conduce. A constant supply of clean water, sharp conduce. A constant supply of ciean water, shan
grit and green food are indispensable at all tipes.

## Eggs and Meat.

Poultry raisers often fail to make their stock pay because they do not keep the right kind, and breed
from grade roosters. It is an acknowledged fact that the first cross from a pure-bred male and
ordinary females produces good results, but by ordinary females produces good results, but by
using the grade male the ressults are disappointing. using the erade mate the ressuls are arappouting in
Inbreeding is another cause of failure, resulting in stunted oftsprings and a loss of size and vitality. It
st
is neessary to keep a pure bred flock to insure is not necessary to keep a pure bred fock to insure
good results. If you have mixed flock, secure a good results. If you
pure-bred male, or the variety you like best, and
mate with eight or ten of your best hens; setting the egrs from this pen, you will have a hood start the
following year, and can kill off all the pld stok ; following year, and can kill off all the pld stock
then by getting pure-bred pale occasionally, you
than then by getting a pure-bred pale occasionally, you
will have flock that will compare, for stock pur
poses, with the best in the country, at a very small poses, with the best in the countre, at a very smal
oullay. In starting your flock it is necessary to consider the probable market you will have for
your produce-loth meat and eggs. If you have a local demand, ascertain whether light or dark-
colored eggs are required, also the color of the legs and skin in dressed poultry. In England they like
white legs and skin, while the demand in the States white legs and skin, while the demand The the the is is.
is for yellow skin and yellow leg. The time
near at hand when large quantities of dressed near at hand when large quant fes on Mressod
pountry and eggs will lie exported from Manitobat
and the Northwest, and those who have the right class of stock will lind a na paying market. Exporters
will require eggs of good siza and uniform in color
and shape; poultry well fattened, properly dressed,
and unitorm
and color and size. England imports millions Canada to-day ranks high for cheese, and her Canada eoday ranks high for cheese, and her
butter shipments, under the present system, are
sure to be a success, and there is oothing to prevent sure to be a success, and there is nothing to popevent
our egge and poultry (shipped in similar cars) finding a paying market either in the large American cities or on the English market. The experimental farms have been trying various. crossese oxperimentared
poultry, and recommend White Leghorns and Light poultry, and recommend White Leghorns and Light
 mouth Rock and Wyandotte males crossed with
ordinary stock will produce a bird that for general purposes cannot be beaten. In the Manitoba climate Parposes can hord, under ordinary surroundings, to
it is rather
get early sitters ; but, if possible, get a few early get early sititers; but, if possibble, get a f few early
hatches. The puliets will lay early in the fall and continue through the winter, if properly housed, and be the first to sit in the spring. By selecting
these early-hatched birds, your flock will in $a$ short time moult early in the fall and ly when eggs command the hirhest prices. Early-hatched cock-
erels can be marketed in July and August, before
the widd fowl the wird fowl come on the market. By kilining the
cockerels off at this early stage it makes more cockerels off at this early stage it makes more
room for the stock you intend ol eeepover, and the
cost of feeding the lock is is considerably reduced.

QUESTIONS AND ANSWERS.
Darin order to make this department as useful as posibibe



## Legal.

hecovery of monex - haramrat. A. W. B.:-"A, while under twenty-one years of about $\$ 175$ a year for two years to his father, with
whom he resided during the time he was teaching as previously. Nothing was said by either party as to phether A was to pay for his board or whether
to wher not the moneys paid to the father were paid as
or not or not the moneys paid to the father were paid as
for board or as a loan or gift. Can A now recover for board or as a loan or gift. Can A now recover
back from his father the moneys paid or any of
them them?"
[No. We think the moneys paid would be M. J., Huron Co, Ont. : "Last year Lagreed to
bred a mare to B, horse and to payy the money
this last spring if the mare proved to be in foal ; this last spring if the mare proved to be in foal.
but before time for payment Iold the mare and
年 B came in the spring and said the mare was in foal, and I paid him the money. I afterwards ascer-
tained the mare was not in foal at all. Can I retained the mare was not in foa,
cover the money I paid to $\mathbf{B}$ ?"
|Yes. If the money was really paid under a stake or by reason of the false state
PAYMENTS on mortanfe.
A. R. G., Wellington Co, Ont. :- "To. Whom
ust payments on the mortagage be made where the mort paymee himself lives at a distance and desires payments sent direct, to himself, although his agent

The paymente should be paid direct to the mort gagee unless he otherwise directs, and moneys paid to the agent after notice not to pay to him are made at the risk of the mortgagor.]
about proving wills.
Wentworth, Ont. :- ". 1 . What is the object of oving or probating a will ?
[No person has power to collect debts and give valid receipts or is safe in managing an estate until the will is proved. It is the ofcial means of showtestator. 1 .
[Yes; sooner or later, if the estate is properly managed.]
"3. What is the cost ; and is the cost always the same?
[From, say, $\$ 25$ upwards; more in larger estates.

When must the will be proved
[It may be done at any length of time after the decease of the testator, and generally will require oo be done at an early date.
5. Is there a penalty for not proving a will?
M. E., Hastings Co., Ont. : "1. A. A, by his will
divised his farm to his wife (B) for life, and after her death to his son (C), and appointed executors Band cboth desire to sell, but C is not twenty-one
years old make a valid conveyance. Kindly explain
IA conveyance to be effective in conveying the interest of would require to be approved of by he official guardian for infants, and he would re
charge till C came of age, to be then paid to C. By ance can be made now, providing there be no restric tion in the will requirigg the land to be kept unsold during B's lifetime or otherwise. to obtain a title to it?
[When the legal owners are of age and not under any disability as lunacy, etc., ten years.] . Can a trustee obtain title by possession?" [A trustee in possession of course holds only for the beneficial owners, not for himself, and he cannot taken that the trustee really holds as trustee, and if there be any doubt, he should be asked to sign a paper admitting the fact:]

## Veterinary.

treating "lump jaw."
Geo. McCausland, Grey Co., Ont.:-"I have een several enquiries in the ADVOATE about how
o treat lump jaw in cattle. By experience I have found a method that has proved successful
in every case, and I have treated several. I first in every case, and I have treated several. I first open the lump and clean out the matter. I make a swab of cotton or take a feather and dip in oil of he wound, which crusts over and stops bleeding. The wound heals quicker with that treatment than ny other I have tried. The animals suffer more from the knife than from."
does not eat into the flesh."
[NOTE.-The standard veterinary treatment for actinomycosis (commonly called "lumpy jaw") is the administration of dram doses of the iodide of potassium morning and evening for two or three weeks, given in a bran mash orn is An abscess arising from a blow is sometimes mis more serious matter.]
F. J. B. D., Wakopa:-"I have some young pigs about three and a-half months old, which are everlastingly scratching themselves. They are a cross grade Berkshire sow. They are all white as regards and backs scabby. When they were akout three weeks old, 1 the ears it advisable to shut them up in a cool, dark stable till they healed up, when they were allowed to go out and in as they pleased.
the first two months their food chiefly consisted of the first two months their food cast month, of boiled barley and swill. These pigs have liberty to roam where they please. Kindly state what is wrong
with them and what treatment should be followed? with [Your pigs are evidently suffering from mange. Wash well with strong soapsuds; dry off by rubbing well with coarse cloth, and then apply the following ointment by rubbing in with the hand Sulphur, four ounces; vaseline, eight ounces ; mix.
W. A. Dunbar, V. S., Winnipeg.]

## rhedmatism

S. P. Hunter, Crystal City :-"I have a three year-old mare colt one at a time swells-worse in the the legs. One leg at a time swells-worse in the
hind legs. The swelling is painful to touch. The colt has never done much work and is in good con dition generally. Sometimes gets lame in front legs without swelling. Have consuith rheumatism, she having wintered at a stack on the prairie when she having wintered at a stack."
[The symptoms are indicative of a form of rheumatism, often the result of exposure to vicissitudes of weather. Give a purgative ball composed of Barbadoes soft soap, a sufficient quantity. After the physic has ceased to operate, give for two weeks, morning and evening, in bran mash and boiled grain, alternately, salicylate of soda, two drams. Apply to swollen limbs, once daily, the following liniment: tincture of opium and soap liniment, equal parts. Keep in clean, warm,
W. A. DUNBAR, V. S. well-ventilated stable.

## Miscellaneous.

arl in middlesex. We recently received from a residen from a deposit of considerable extent on his farm. We submitted a portion of it to Prof. Shuttleworth,
the $\mathbf{O}$. A. C., for analysis. He writes as follows :-
. O. A. C., for analysis. He writes as inst., I beg
"In reply to your note of the 2,2 nd in o inform you that the package from Marl. We farmer contains a sample of calcareous mants, but
have examined it for manurial constituents, have examined it for manurializer. It is largely
find it to have no value as fertilize
its action on
 of marl, however, is equal in quatwich is ntilized
Shallow Lake, near Owen Soond, which in making Portland ('ement Such mar, occur ring near suitable clay, would be of value for thak
ing cement.
A. SHTILEWRTH,
ant

Maggolds vs. teryits better food than turnips for pigs:-1. Are mangolds differ? 2. Are mangolds as good as turnips for
beef cattle? 3. Are mangolds better for milch coefs cathan turnips? mangolds better for milch
suited for mangolds? ". What kind of soil is best suited for mangolds
[1. We prefer mangolds to turnips as pig-feed for the reason that they are much more relished amount of nutrition. The quality of palatability is worthy of more consideration in stock feeding than is usually given it. 2. Turnips seem to get the preference on most beef-feeding farms, which we think is warranted for the reason that mangolds contain a higher percentage of starchy food, which is already in excess the fodder. Turnips have a viz: straw, $n$ nutritive ratio of $1: 5.8$, while mangolds have $1: 9.3$. The extra starch diet is not lost in. pig feeding. 3 Mangolds are to be preferred for milch-cow feed because they never impart an objectionable flavo to the milk, which is likely to occur when turnips are fed. Except for that reason turnips give bette results. Mangolds are greatly relished by cattle 4. Well-drained and enriched but moist, loamy soil.]
large litters of swine.
F. J. Barber, Halton Co., Ont. :- "What is the
largest number of pigs farrowed at one time that has come under your notice? I have a year-old sow
(which farrowed on Nov. 7) that had a litter of 18 . She is a Duroc-Jersey, and I understand that one
of the claims made for this breed is its prolificacy Is this more noticeable in this breed than in any other?
[From our observations it would seem that the Duroc-Jersey breed of swine can justly claim the herd of Tape Bros., Ridgetown, we were shown a sow that had a few days previous farrowed a litter of seventeen live pigs; this is one of the largest litters that has come beneath our notice. We have
also known a few instances of Yorkshire sows each also known a few instances of Yorkshire sows arrowing eighteen at a litter. Ashes.
Ancaster Farmer :-"Having read your valu
ble paper with considerable interest in the past, able paper with considerabe inve me an idea or two
thought you could, perhaps, give have quite a lot of ashes at our disposal and would We to know the most proftable grow wheat, barley peas, oats, and corn; also roots, and meadow.
Our land is $a$ loam in good condition. Please exOur land is a loam in good condition. Please explain the use and nee"
soils, crops, trees, etc."
[A favorite way of applying wood ashes is as a top dressing to grass-land and to pesture, thereby better kind of grasses, which do good service in crowding out inferior grasses and weeds. They are also highly esteemed for potatoes, con bented by Leguminous crops, too, assic manure. They are applications of ande to an apple orchard, where, perespeci "A caster Farmer" will receive most benefit from an application of ashes. Wood ashes are valuable as a manure because of the ingredients contained in them. The most valuable constituent is potash, which every plant must have in order grow. They are least valuable on heas elready an because in most cases such soil has aiready an abundance of potash. Asid, without which no plant amount of Carbonate of lime makes up a large proportion of ashes, which answer a good purpose on soils poor in lime. Not only does lime feed plants, but it also tends to liberate plant food of other sort which may be in the soil in an wand dition. $\mid$

LIVE STOCK MARKETS.
Toronto Markets.



























## Montreal Markets.





 There are no caite an improvement was
Shecp.- Quiter

 Hrapos.- With the exception of a few lots which wore pioked
up at $\$ 4.25$ per cwt., off carre, and about 600 which were eushed

 they will require
contracted for



 ency to limit shipments.
The Cow market is very quiet-very few offering and very
fow apparently wanted.
at from 820 to \&33 per head. ew apparently wanted.
at from 8 to to $\$ 35$
Shipmer head.
phow
live tok show considerable falling off from
from




 inches high will keep hens it is so low they do no
they cannot jump over and ing.
think of flying. Has any reader noticed this?

THE FARMER'S ADVOCATE.
Nóvember 15, 1895

Chatty Stock Letter from Chicago
 -rilowing are the one prices and wresent woars weeks ago



 Iong continued dry woather, sarerity of healthy pitg teo for

 Month. ${ }^{\text {a }}$
$\qquad$
October.
Distillery feeding operations are to ber resumed on a large
cattle at Pooria, the main seat of whiskey manufacture in the
Here are some intere sting figures bearing on the question
comparative supplies of meat-prodecing animals this year
 hogs, and 80 lbs. for sheep,amounted to 7, $136,730,000$ lbs., agains





 chictago
Che horse meat venders are in hot water and ure finding it
 the lowest of the season.

 The packers are tarvet of cheap ones. 20 per cent. of last
are getting areat have
Mallory said: We still beliave that
mot month's recepts wee are glad to note some abatement in this
attending them. We are
epidemic of far of isease, and, within anhort time, we think
thind epidemic of fear of ofseasore normal
the trade will assume more
hogs will be held back to be matured."
mand ore haavy parke-making hooss, and they are sent in the de
to the value of those suitable only for fresk mearer.
Toronto Horse Market.
 time is a riderer and driver about fifteen hands and two inche
high, with plonty of style. This has been forcibly brought
hit.



 during the last two weeks has had an upward tendency. and
the demand has exeeeded the supply. The horses specially
sought for are sound drauht horses with plenty of bone
 the last two weeks. A horses in horses sell very low, owing






SHE DID HER DUTY.
by edith charlito ${ }^{*}$












 e. We tave oome to show you where sou have failed. You
 or the crow




















 soi When a slack day came he often asked you to go with
him on short excursions or or to mend the day
hith some





 Well-rear husband was tond of reading: he him done tour her buty by him, and us. Ho




 anything inside us












THE CHILDREN'S CORNER








hidden proverb-no. 3
Now, children, you can send in your answers at once. The first group of proverbs, $1-3$, is completed. Some ansivers have arrived already, but only children guessing aln To-day the "Corner" is take -- by Muriel E. Day, New Carlisle, Que. She is just fifteen, and has seen me the following fairy tale :

Stella, the Star.
Once upon a time there was a little girl whose name was Stella, and she lived with her mother in a very miserable little cottage. In the front of their little home there was a small garden, where Stella and her mother toiled from morning till night, and a few square yards of land, where tid lean-looking goats, having was not very comfortable inside,-a bed for Stella and her mother, and one for Martin, her brother, who had left them many years ago, with the intention of returning things appeared better, and since her mother had forgotten to perform a little deed for the fairies they suffered very much.
But Stella grew in beauty, in weight, goodness, and very considerably in appetite. One evening, when the two were sitting to
gether on the doorstep, a very beautiful little fairy gether on near to speak to them. She asked Stella' mother if she might take her little girl and mathe
her a princess, promising to give her mother her a princess, promising to give her mother
abundant wealth; but this she would not do abundant wealf,
Although the fairy was very much disappointed,
she with her wand, placed an invisible star on her she, with her wand, placed an invisiber joy, riches lovely forehead, which would give her joy, riches,
happiness, live a life for others; and at the hour of happiness, it should shine brighter than ever, an would be visible to all.
Many years after this, when Stella was nearly as
tall as her mother, the latter'died, leaving her alone with her goats.
Not far from where she dwelt the king resided,
and he had resolved to marry - one whom he had and he had resolved to marry-one whom he had
seen in a vision -a little maiden attending her goats and home - no other than our little hero the Dtella. He had ordered all the young girls of ther and poor, to be brought forth, in order
place, to see if he could find out the one whom he saw in his vision, and was almost discouraged, when one she lived. Making known his love for her, and asking her to become his queen, she refused him-
until her brother should return. Much against his will, he was obliged to wait: and not long after home to visit the king, where they were joyously
received: and in a fing home to visit the king, where they were joyousl
received and in a few days she became his queen,

Host a very yitle word
Onl the the other day; A verry naughty inte word If had not meant to sag,
 For if if one oonld ever find
Ag ain that little word. So that no more trom any lips $\mathbf{T}$ moure we eillor fuearablid say With such o ompoltetenngs tin


If it were only reall F lost!
I let it fall so carelessily her Primary Arithmetic "Now, what's the matter, Kit tyleen? as
big brother Tom coming out wiom

 you were eating
sweet apples and
studying studying, and I,
came out to do so, came out hore so,
tore, and here too, and here
are crying." "Itt's - this-
dradful - multi,
dical dreation table!
plicat
sobed policabion Kitty "II
san't never learn can't never learn
it, never!"
"Un! it, never!" "Hard?" asked Tom, 0 , it's awful!
Harder than any thing your college books, I know. It's the eights this arternoon and cant
lear.n'em, any-
how." "Don't you eight times much
is?
asked Tom
Tom picking up a small picking up a smail
apple and beginning to eat it. "Yes, of course. Eight, times one up to five times eight all right." Well, anyou? couraging, I'm
"A Little Lost Word." With sach completones to have 1 And now hosasy it it too. Mamma sidat that the worst would be
But the worstof it it now feems to me,
I am always on its track.


The 「Iultiplication Table. Kitty sat out under the sweet-apple tree in the
you." Kitty rattled it "Five times eight is forty" - and there she stopped.
forty-eight." gight on," said Tom. "Six times eight is
"I can'"" said Kitty. I can't learn the rest. I've
"Do you learn so hard?" asked Tom "Now, you can," And Tom repeated a verse of a popular Kits laughed, and repeated the nonsense word for word.

Why, you can learn!" it. It is not like the ""But that has a jingle,"
"Let's put a jingle into that, then
S Six times sight was al ways late,


id you make that all up, now?" asked Kitty, in wonderment.
"Why, yes," laughed Tom. "Oh, it's splendid Leut it with very little help.
she went striaght through it
"Tentimes eight is eighty. That ones easy enough
$\left|\begin{array}{c}\text { "And now,", said Tom, when she had the jingle } \\ \text { well learned, "say the table aloud and the jingle }\end{array}\right|$ in your mind as sou go galong," Kitty tried that, and a very few times made it
success. With the ringing of the first hell she a success. With the ringing of the first bell she
was ready to start to school, with those "dreadul eights" all perfect.
 said, with a good-by kiss. "And I don't believe
theres another boy in college that could make such
nice poetry."'
Tom laughed as he opened.his Greek Grammar

## A Prudent Plan.

"The sentiment of Foar:" deolarod My Uncle Zebedee,

 I houbtroull hate to have a burglar goting in; and hence





Thusinside thes simple plans.itis indisputably clear



columbus at the court of la ribida.
Columbus at the Court of La Ribida. The interesting episode in the life of Columbus illustrated in our picture is thus referred
Washington Irving's "Life of Columbus":panied by a boy, stopped one day at the gate of a convent of Tranciscan friars, and asked for hread and water for his child. Friar suan with the Marchena, happening stranger, and observing from
appearance of the appearance accent that he was a foreigner, entered his air conversation with him, and soon learned the
particulars of his story ;-that stranger wat his son
bus $" \geqslant$
Here we see the great navizator, with his son
Diego by his side, demonstrating on a map his Diego by his se possibiiity of sailing to the West,
theories of the and theneby reaching the Indies in That the great
discoverer stumbled on America in his way detracts discoverer stumbled his troamindeded farseeeng courage,
nothing from his nothing from diebt of humanitv to him. In the
and the great de picture. to the right of Columbus is the Prior,
listening with lively interest. The man leaning over the table is a physician named (iarcia Ferrnan-
lez, invited to the conference from his known dezer, invited to the conference from his known
interest in all scientific knowledge The hird man
Th
is a renowned sea captain of his day-Martin
Ionzo Pinzon. who became so convinced of the Alonzo initity of Columbus' plan.
companion on his first voyage. Played well? You bet he did; but don't interrupt me. When he first sat , own he peared to kee mighty little come. He dweedome on the bass, just foolin' and woxin' the thing's ja jas for bein' in his way. And I says to the man sittin' next to me, says "Hush!"
sort of playin' is that?" And he says, "Hen But presently his hands commenced chasin' one nother up and down the keys, like a passel of rats scamperin just about to get up and go home, bein'
tired of that foolishness, when I heard alittle bird araking up away off in the woods and call sleepy wise to itgininge, to toke some interest in his business,
was begne
It was the peep of day. The wad I sit down again. It was the peep of day. The
aight came faint from the east. The breeze blowed light came faint roome more birds waked up in the gentle and thesh, some more in the trees near the house, and all begin singing together. People
began to began to stir, and the gad day; the sun finirly biazed,
next thing it was broad dit
 "It was a fine mornin' And I says to my neighbor, he'd like to cut my throat. ${ }^{\text {Then all of }}$ a sudden Old Rubin changed his tune. He ripped out and he rared, he tipped and be
taired, he pranced and he charged like the grand taired, he pranced and he charged like the grand
entry at a circus. 'Pearred to me that all the gas in entry at a circus. 'Peared to me that all the e gas in
the house was turned on at once. It was a circus
and a brass band
pianner. He slapped her face, he boxed her that or hat pulled her nose, hepinched her ears, and he scratched her cheeks till she fairly yelled. He knocked her down and he stampean her shanefore she holele like a
like a bull, she bleated like a calf she like a bull, she beated like a pigi, the shrieked like a
hound, she squele louldn't let her ur. He run a rat, and then he wouldn't let her up. He run
ruarter stretch down the low grounds of the bass, quarter stretch down the low grounds of the bew you
till he pot celean to the bow oarthe and heard thunder after thunder through the hollow orren he fox-chased his right hand with his left, till he got way out of the treble pints of cambric needles, and you couldn't hear nothin' but the pianner go. He for'ard tow'd, he crossed over firs gentleman, he chassade right and left, back to yout places, he all hands out, here and there, up and rome, per etual motion, double, twisted and turned
down
nd tackel nd then he By jinks, it was a mixtery. And then he
wouldn't let the old pianner go fecht up his right wing, he fecht up his left wing, he fecht up
his centre, he fecht up his reserves. He fired by file, he fired by platoons. by company, by regiiege guns down there, Napoleons here, twelve-





 Botaberot fohinilio


 yiflios endident fhan she muatic

 like tears of joy
falling into a lake of glory
He stopped a
momentor two to catch breath.
Then he got mad.
 throub him hari Bituectibe opened hith ofititilis dubg infies itoil

## The "Home Queen."

livin' battery and bomb a-going at the same time.
The house trembled, lights danced, the walls shuk, the floor came up, the ceilin' come down, the sky split, the ground rocks theavens and earth , thonpenny
sweet potatoes, Moses, ninepenny, glory, thompson
 in a tumble cart. roodle-oodle-oodde-oodle, ruddle-uddle-uddle-uddle, raddie-adde-ade-ade-adie,
The Country airl--She is a Envied Young Woman
At this season the country girl feels that her has theatres, concerts and lectures ever at her has theatres, concerts andity of gayety that natur-
hand and an ininite van
ally can have no part in truly raral existence. Of course there are the family feasts at Thanksgiving and Christmas, when all is bustle for days before
and during the actual celebration of the annual and during the actual celebration on try
festivitieies but outside of that cound regarded by the
and monotonous
The swirling leaves, as they sweep across the dead brown of the erstwhile soft green anwn
speak to her ears only of lonesomeness, and the crow's mournful cry is the knell of all her hopes so far as good times in the long, weary.
between autumn and spring are concerned.
Many a body blessed with a lovely home in a picturesque section of the country sighs for city lies amid the clang and rush of trolley cars and
beneath the cold glitter of electric lights. To these discontented ones let us have a few words to sa that are given honestly from heart to heart. To begin with, unless one is blessed with a good income the majorred aftinst them as though they
are as much barred and dwelt in the very heart of the backwoods. Again he sum that dresses a giril well in the country, giving her a positive and assured position among
the others similarly situated, would count for
to nothing in town, where giant fortunes are the only ones that cause any special stir. Leavini
home in the country to make a livelihood amid the fascinating scenes of metropolitan life will neces sariily be attended with difficulties grim and
gion
It isn't all clear sailing, even
though a imposing. It isn't all clear sailing, even though a place is alssured and large at first, and though it may sound like a veritable dream of weate whi whsumficient
country. it will prove meager and ind country, it will prove meager and insificien to city life. A hall bedroom instead of the liberty of the old farmiouse, ate pancting of woods and alley instead of the great
sken from the porch of the old homestead, sky seen from the porch of the of the wholesome and generous menu of the home table-these are
and some of the dsat hat harrowing homesickness for say nothing faces as the girl trudges along amid
well-known hurrying crowds engrosse know the stmanger, who not knowing or caring to know ene symp eminent finds that concerts, $\begin{aligned} & \text { speakers, do not compate for the heart hunger } \\ & \text { not }\end{aligned}$ speak in the daily and nightly companion of the
thao
folis wand fooilish wanderer who did not apireciate the value of a good
had them.

A Scotchman Outwits a Scotchman.
 legalized and a presen, an Englishman who had expese a moor within twenty miles of Inverness,
rented wishing to send a ten-brace box of grouse to nise his gillie to procure a
friends it the South directed hisital of the North, person to take the box to the capatal
whence the London steamer sailed. Ne, how whence the miserably poor tenants in the neigh
ever, of the borhood cound be for sight shillings. This demand for a tess sht so unreasonable that the Englishman complained to a Scotch friend who was shooting
along with him. The Scotchman replied that "the natives always made a point of imposing as much as possible upon strangers; but," stidi he, "if you will leave it to me, I will manage the matter tor
vou: for, with all their inclination to knavery you, for, with all their inclination the suav." A
they are the simplest people under the
fey they are thereafter, going out a-shooting, they
few days the
saw a man loading his cart with peats, when the Scotchman, approaching him, said, after the usual



 resumed his walk for about twenty yards, when he
suddenly turned round and said, $\quad$ By-the-bye, 1
It

 the lodge in the evening, I will give you the at the
tion for the peats, man you can have the box at
same time. The man did so, and actually carried same toxe. quee an load of peats for one shilling
the box and gave and eightpence, all hopogh neither the same indi-
vidual nor any one of his neighbors would forward and eightpence, athough neighors would
vidual nor any one ont his neighbor
the box alone for less than eight shillings.

As anticipated in our announcement in last issue, the "Home Queen Cook Book," as a premium, is taking well and going quickly; the first one being secured by a reader away in Nova Scotia. No such volume was ever before placed within reach of our readers on such easy terms, viz., the securing of one new subscriber, as per premium page announcement. Read it, and by prompt effort be fortunate enough , e will mail them in rotation as being
the orders reach us. From personal knowledge, we commend this work.

Old Poll Parrot Story Retold. A gentleman made a present to a family of a not speak, and the farmer undertook to teach her
 he lost his patience, and withdrawing Miss Poil
from the cage said :"c Now, then, talk or Ill wring from the cage, shid fiiled, and with great disgust he
yer neck." Thi
the threw her into
the dumb birds.
On paying his usual morning visit, he was
 your neck,", from Poll. Opening the door, he found
that there were about a dozen dead chickens that there were about a the process of execution. around, the a very knowing look at the farmer, said :
"Plu, with
"You talk or Yll wring your neck." Collapse of farmer.

A Sermonette for Wives.
"We all know how some women, after a year or," says a lady novelist. "They seem to think that heir fortune hair macomingly and put on a pretty gown just for their husbands.
"This is all wrong and it
rom lainess. from laziness. Men like to see their wives look pretty just a
much as they did when they were sweethearts. "Take a weman's advice, , nd if you can have but one a
indors.
"Ende
ndeavor to have daintily-arranged hair, and "Go nat "Go in largely for laces. A man is very fond of
frills; bits of white about the neek and wrists always appeal strongly to him."



If You were breasting a ken wind, which tossed Till baftlyd and be ewildered quite, you lost



A look a word, a hight, responsive to.



Puzzles.
My Prist, although tis sate and sord.
My spong, yet is "energy"




Frgs i a a litte animal that runs about your feet ind nea



Answers to Puzzles in October 15th Issue

## LATIN ANONE TOME TH NESTS



- Mistake (Miss Taket. $\stackrel{\substack{\text { Solver. } \\ \text { clara hobininon }}}{\text { and }}$


THE QUIET HOUR.
The First Tangle. Once in an Fastern palace wide
A little child
cat
 "How is it litille one," they said,
 - Our weaving gets so worn and soiled For all we'ver retted, wept and toiled The little child loked in their ey And pity chased thesweet surprise That filled her own, , assome.

 She turned her litle head aside;

O littele children-weavers all


The Little Things of Life I recently heard a sermon which gave me new
light on the doing of little things. The whole im port of the sermon was, that in working for Go pot little minor details, necessary in preparing for
the tork are as truly service as the actual work it he tork are as truly service as the actua intent of doing something at the end of the journey for God or His cause. The packing of onest trunk, the
getting this, that and the other together, and the gundred and one little preliminaries which had always seemed to me unprofitable (that is, in a spirit ual sense), are just as much work for Him as
and for which all the preparations are made, and nd for which all the preparations are made, and
without which, of course, the end could not be without whish.
It came to me then, that if our time were con
secrated to Him, everything would be service. secrated to Him, everything would be service.
doubt if we give enough thought to the little doubt if we gite enough hourtesies, pleasant
things of life, litle everyday cond
words and smiles. Iknow I have had thee whole words and smiles. ing" from a friend. "ilife is made up of little things, does not lose any of its truth by being old, and little things. Isn't it the motive that gatges
the value of our actions, rather than the actions themselves?
To me ther To me there is great comfort in the thought, that if we who cannot do great things, wnd make a
little things faithfully, they will in the end Teast, is faithful "he also in much."
How many there are who think there really is How many there are who not, perhaps, having money to give. They do not think that a bright
letter to some far-away or "shut-in" friend, a halfhour spent in reading to some one unable to read,
ha invitation to the stranger at the church-door to come again, can all be given as service to Him, and net
letter, or reading, or pleasant word may be.
I have before me an extract recently clipped I have before me an extract recenty
from one of our helptul journals. It is this:
anplish "A society of a single member may arcomp
great results.
Do what you can, however little, and great results wonderfuly increase your abilityt." fishes unto Him, not crying, "O Lord, what are

 trust Him to do it.
In one of those celestial days, when heaven and earth meet and adorn each other, it seems a poverty
that we can only spend it one we wish for
thousand thousand headd, a thousand bodies, that we might
celebrate its immense beauty in many ways and celebrate its immense beauty in many ways and
places. Is this fancy? Well, in good faith we are multiplied by our proxies. How easily we adop their labors ! Every ship that comes to America
got its chart from Columbus. Every novel is a got its chart from Columbus. Every novel is
debtor to Homer. Every carpenter who shaves debth a foreplane borrows the genius of a forgotten
with
Lite is irt all round with a zodiac of inventor. Life is girt all round with a zodiac of
sciences, the contributions of men who have sciences, the contributions of men who have
perished to add their points of light to our sky. perished to add then
Engineer, broker, jurist, physician, moralist, theo
mat logian, inasmuch as he has any science, is a map-
maker of the latitudes and longitudes of our con-
lon dition. These
us.- Emerson.

My Presence Shall Go with Thee.



\& \& O SORBY - GUELPH, ONT HORACE N. CROSSLEY mophermo or this SANDY BAY STOOK FARM mporter and breeder of


The above stad. though only commenced in ho leading Canadian showe the Hiloce Mon प's sfali The most notable in this stud are, the sithe horse Bravo II. 12835. winnerof first at aeating ail


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DR. LIEAVITT's NEW CHAMPION DEHORNING CLIPPER The quickest working and the
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The New Empress. The Queen of all Machines. We have tho

 ell for 8 sin the United States. Our pricie ons $\$ 1$
Waltham Watches, $\$ 7.50$ - - A ginining wiall hame wath, with

## and setemseting, wiil be malted, $\begin{aligned} & \text { ond } \\ & \text { ons spmot }\end{aligned}$

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 JOHN IILLER,


R. G. STEACY, Lam Bran LYa, ONT. Larpert. importer in Unitad sitate and





STOCK GOSSIP. the Farmer's Advocate. The attention of our readers is directed to the
nnouncement in another column of the thth
 to be a fitting finale to
show-yard events of 1895.
In thisi issue will be found W. C. Shearer's
(Bright) advertisement of choice Barred Ply (Bright) ad vertuemento philete, and one-gear
mouth Rock cockerels, pulteck. Thi present hens, bred from im ported stook, This presents nopport even a cheaper start could be made
with or or
 pullets as possible next summer; hey wil elim
be the color of the mall next fall. Chang him
for another of the same kind, and you will find yourself poossessed of o nine and proftable flock
of farm poultry. The Barred Pymouth Rocks are farm poultry, winter laarere, when eggs are
are
igh in price; the hens are fine. quiet mothers. high in price, the hens are tine.quen dothers.
The chicks are easil fattene, and can be
turned off early before the market is glutted. - home busingo matenin. Graham Bros., Claremont, Ont., write :-

- We reentrily consummated one of the mot
important kales of horses made in Canada for
 some years. Mr. M. R. Bact, or Ammerst
N.S., acting for





## 

as
bree
bein
Win
bred Hace
alas jut
ham,
hand
Bonnie
Be
we rar
we have
MEssRs. A. \& D. BROWN's shorthorns A A short drive from the Village of Iona, Ont
is the fine fine five hundred-acre property




 | $\begin{array}{l}\text { bull, } \\ \text { bell } \\ \text { pori } \\ \text { Hel } \\ \text { He } \\ \text { Pri }\end{array}$ |
| :--- |
| Prid | 0

de


 $\frac{8 \text { SON. Londesboro. Ont. }}{2 \text { THOROUCHBRED COWS }} \begin{gathered}\text { FOR SALLE. } \\ \text { CHEAP. }\end{gathered}$ For ward in calf to 1st prize ball Commander
$=1888=$ and three young bullo at bargains.
$12 \mathrm{y}-\mathrm{om}$ A.J.C. 8 HAW \& SoNs, Thamesville. 12.y-om A.J.C. 8 HAW \& SONS, Thamesville,

 CRRPGILL HERD OF SHORTHORNS.


 A. J. WATSON, $\begin{gathered}\text { CASTLEDERG, } \\ \text { CNT. }\end{gathered}$
 SHORTHORNS.



## "Farmer's, Premiums! <br> Every one good value. <br> any of our subscribers furnishing the required number of names we will send per mail or express, as most con-


duke (Plain).
Read What T
ho Have Earned It.
To the Farmer's sivocate,
 in every
few names now and again.

 given entire
gubberribers:




John Lonamore.
Either watch, with chain and charm, will be given to any subscrit
'TI $\begin{aligned} & \text { find the size of ring required, take a narrow strip of paper that will } \\ & \text { draw tightly' around the finger, forward same to us, and we will }\end{aligned}$ draw tightly`around the
assure you a perfect fit.
CHILDREN'S OR MISSES' REAL STONE SETTING.


LADIES' REAL STONE SETTING.
 1 Garnet, 2 Pearls.
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3 New Subs 2 Garnets, 5 Pearls. $\quad 5$ New Subscribers. $\quad 5$ New Subscribers.

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to supply same on most favorable me orms.
ter


## An Extraordinary Offer.

$3^{\text {ELOW is given a brief outline of the contents }}$ $B^{\text {ELO }}$ of this handsomely illustrated Cook Book. See page 40, November 1st issue.
Food and Healt
Foods in Genet Foods in General
Table Etiquette.
Mo Table Etique
Morning Meal
Mid-ay Meal
Evening Meal Evening Meal.
Party Suppers.
How to Carve. Solecting Me
Sous.
Fish. Fishi. fish.
Sheats. Meats.
Sauces for Meats.
Poutry and Game.
Pickles and
Pouckres.
Pick.
Sweet.
Veketles.
Vegtable
Sweet Pickles.
Vegetables.
Butter and Chese.

Eggs and Omelets. | ERgs and |
| :--- |
| Sread. |
| Bread. |

Bread.
Biscuits, Rolls, etc.
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Wint
Unleavened Bread.
Grains and Mushes
This premium will be sent to any subscriber send
ing us the name of only one new yearly paid-up
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th if preferred, we give liberal cash commission

THORNCLIFFE STOCK FARM ！
 My stock in the abo

19－1－ $\mathrm{-}$－om

## STOCK GOSSIP．









 aualityis iootedition are subiject to the sam




 numbers were imimitedi．The auctionerer in ir it
 Gerrie Fergis，，was the parchaser st stit．





 worth srine were oro of Markshirire and Tam


 one norsee－no．
spondingly low．

NOTICES．
 wierer sros．sost－paid a paper－covered book，le
 wenty doliars for a groky．


 $\underset{\substack{\text { Editor } \\ \text { ronto．}}}{\text { E．}}$

BOOK TABLE


Gio．Downiy \＆Bro．，CASTLEDERG，ONT．， ATtLe and cotswold sherp．A few very
 For Sale ！－－A very fine for－－bear im－ ＝15281，bred by Wm．Duthie，Scotland，and
got by the great stock bull，Leonidas $59260=$ ．
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STOCK GOSSIP．
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ine Farmer＇s Advocoate． J．C．Snell，of Edmonton，ehanges his adver－
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Greed bred by Mr．Smith，were elso included． The female Shorthorns，comprised Warrior＇s
Plume 2nd and be．bred by Mr．Beatio．
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tincolns and $0 \times f$ fords．
Mr．Dool is one of the formost farmers and bred．Dool is one of the formost farmers and
that there the vicity of Hartington．Seeing that there was money in the pig businesi ir
handledin the right fasilion，afow years sinoe
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ee his advertisement．
w．J．shi bley＇s berkshires
Some three years ago Mr．W．J．Shibley，of
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November 15, 1895
 series of Farmers' Institute meetings to be
heild, with the exceention of Division 10, in January, beginning on the the and extending
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| 8. Miluerton.. |  |
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his get, and sow and fourot her prod vae. We wo to three months, also boars and sows
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gey bull of heayy milkg train. Also young
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STOCK GOSSIP
thin In writing to advertisers, please mention . At the dispersion gale of Mr. E. Moore's herd averaged about \$110, including a iot of
young things, prices running as high as $\$ 290$.
 leveragorothorns $\$ 20.50$ bu femalea sold for si, 130
averaer
an average of $\$ 119.85 ; 69$ animals sold for an average of some of $\$ 131.60$.
Friends of the Farkirg's ADvocate are
piving us their enthusiatic support in all
parts of Canada this season by working to kiving us their enthusiastic support in all
parts ot Canad this season by working to
increase its circulation. Our campaign has increase itg circulation. Our campaign has
been for goord atock and goo farming
paying combination that always go together been for goination that always go together.
paving rombint jont
An extra efrort
influence of the paper for gooaly
 us that the 17 th annual nieeting will Nove held in
the Sherman Houe, Chicago. on Nover
then
 htat any suggestion valculated to advanc
his atesdale interests will be glady received. Mr. J. H. Pickerell, Springfiela, Ill, Secre-
tary, advised us that tha annual 'moetino
and the A merioan Shorthorn Breeders' Association
will be held in the Great Northern Hotel,
Chicat of electing three. Directorsto serve three yearso
ond one to fll the vacancy caused by the de-
ane and one (the fill the vacancy. caused by the de- Moberly) to serve
cease of th later
one year, and other business.


 very good indicat.
Mr.
comemant
comely Dodates. The joint sale of Capt. T. F. Robson, IIder-
tonn and $J$. . Gibbon Dentiol, war quite and
succoss











 As our readers will remémber, A preliminary
meetiug for the orgaizalion of the Condian



 is provisional chairy.
provisional secretary.
sHo Bhorthorns For british columbia.
We had an opportunity of ingpecing the
large shipment of registered shorthorn We had an opportunity of ingpecing the
large shipment or registered shorthorn bulls
for Britith Columbia spoken of in our lat
issue. The number











 provement in their appearance.
clearingout at thit eapnatgur wel
coring demand that is sure to come.

## STOCK GOSSIP.

## 

 A couple of miles from A couplo of miles from Glencoe, Ont., isthe farm of Mug MeCutcheon, who
eoently founded a herd of this Amerioan reoently founded a herd of this Amerioa
oreed ot swine by selection trom the we known prize-winning herd ord pape brot the
Ridgetown, and others deseended rom the
same herd. Amont herd we were partic same herd. Among the herd we were partic-
ularly pleased with the yearling oow, Queen
of Mosa -71 , a typioal Duroc oo splendid




 Nabob li- dam Roy fild A fine young
boar was recently purchased from Tape Bros.
to replace the old stock boar. He is by an to repalace the old stock boar. He is by an
imposire and dam and had for his grandsire
Old Norway chief. the frist-prize boar at the World's Gir at New orieans. No. ready to
eon is ofrering a few young sow ready to
breed and a boar of same ago br Pride of messrs. berdan \& m'neil's duroc-jerseys. Our next visit was at the farm of Berdan
Mo.Nei, near strathburn, Ont., where some
forty nead of hign-class Durocs are to be seen, and on looking them over we were under the ampressoughth out to tho harge fairs they would
have made ahard tight for some of the best have made a hard night for some of the bes prizes, and no doubt another year will see then
out in full force at Toroto and ohther large
fairs. This herd was also founded from the
Tirs.
 use is Lord Howard - 13 -, as hine a boar of
thib breed as we nave yet sen longthy deep.
ribsed, a capital back, and woll boned. He had
to


 1., and wad got by old Nor wood King, 3897a,
boar noted as a producer of some excertion-
Ay fine stock. Among the sow, probably the
 Bros, and sirsd by the Duke of Kent - 100
she is now nursiug a lititer of ten very fin Oungsters by the imp. boar None Such. Lad

 Showed thid season. Jersey Queen, by Roya
Winner, and a daughter or Lady Havelock,


 respects, and winner of this boar they will be
Ottawa. By the use of the
able to furnish pigs non-related. A nuber of
and able to furnish pigs non-related. A y mbe sows
particularly handsome young boars and sow
were seen, five and six months old, full of

 sows now ready to bred, and a fe w choice booi
which they are offrings. should certainly give
and atisfaction, as also should the younger ones.
ive aubtralian cattle and sheep for

| If Australia does not succeed in securing |
| :--- |
| portion of the British market for every agr | coltural product that she can raise successffill

the failure will not be due to a lack of effor
 mained of 550 bullocks, 488 sheep and 29 horse
Her lossses on the way, comprised 51 bullocks,
ho
horse. Six of the bullock so sheep and one horse. accused of being affected with plewro- pneumonia, which the
British authorities claim is prevalent in that colithy The cattle lost weight very consider-
ably during the voyage. and owing the theat
af the vessel lost great patches of hair, which of the vessel lost grear pated and enaciated
gave them a very
appearance. A good portion of the bullocks
 a few Herefords. The ages of the e years
apparently ran four to seven yoar
which is not the sort most souxht in Enkland
 grades, not worth sending to a country where
Southownsand other fine muton breeds can
bud hat
 Although this it iteriment has proved a fhnant that further ship-
cial failure, it is that
ments will be sent forward, which will be given more care in handling. and may yet be made a
meansofdisposingof Australian surplusstocke
We are inclined to the opinion that Canadians meansorineposingo the opinion that Canadians
We are inclined to toan
have little to fear in this new competition
 fitting up the evesel a ampunted to tli.100. Thal
 the thip rip was about tetove. It was expected
forthe tip weinht on the
that the animals wouldingers were verymuch
voyage, but in this the ehippers

 Mativivazet

| BAKE ABATCHOF BISCUITS <br> Sift one quart of four, two rounding teaspoonfuls of baking powder, and one teaspoonful of salt into a bowl; add three teaspoonfuls of COTTOLENE and rub toget her until thoroughly mixed; then add sufficient milk to make a soft dough; knead slighty, role oured pan, and bake inch thick, and eat with a small biscuit cutter. Place a biscuits should be a delicate brown top in a quick oven for fifteen or twenty minutes. <br> The secret of success in this recipe, as in others, is to use but two-thirds as much Cottolene as you used to use of lard. Cottolene will make the biscuit light, delicious, whoiesome. Better than any biscuit you ever made before. Try it. Be sure and get genuine Cottolene. Sold everywhere in tins with trade-marks --" "Cottolene" and steer's head in cotton-plant wreath-on every tin. THE K. K. FAIRBANK COMPANY, Wellingion and Ann Sts., MONTREAL. |
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