

THREE CHAMIION HEREFORDS Oİ 18!4.


## Our illustration.

EDITORIAL.
Bear in mind the Ontario Fat Stock Show, at Guelph, Tuesday,
ber 11, 12 and 13

Prof. A. J. Cook, formeriy of Michigan, bat now of Culifornia. will represent the State University at Farmers Institutes, in Southern California, during the coming season.
At the last session of the Dominion Parliament, $\$ 25,000$ was placed in the estimates towards holding a grand show at the Legislature and Regina itself tories, in 1805 , and added $\$ 10,000$.
Says Prof. I. P. Roberts, in the Grange Home, and we believe it: "All the milk and butter that is produced to-day, could easily, under intelligent management, be produced from one-haif dairyman to do his utmost to bring about the above mentioned condition of things.
The recent United States election brought into positions of prominence in York State two men who are closely identified wice-President Levi P. Morton, pro-dustry- 1 . prietor of the Ellerslie herd ber, owner of the Crumhorn Holstein-Friesians, who will represent his district in Cungress.
This is truly an age of endeavors to enconomize, resulting from sheer necessity. It is well to be very careful, in economizing, not to withold that which is producing a revenue Stock feeding, above any things, shouid not berimping, because, unless there is something more than a maintenance diet given, the whole thing will be practically wasted, no gain being effected. All the profit comes from what is consumed and assimilated in present condition.

The fruit growers of the Antipodes have projected an organization, to be called the Australasian Federated Fruit Growers' Association, for the purpose of organizing branch associas in each fruit growing centre ; to secure the advantages of inter change of opinion and exper the dissemination of relating to the ither by bulletin or a regularly issued information, either future conferances; dealing journal; over and influencing legislation affecting the fruit industry, and supervising local government regulations and by-laws dealing with the marketing and sale of fruits; securing federal action for the deci velopment of in England.

A Lesson From the Old Land.
Elsewhere in this issue is an article on the most pproved methods of fattening cattle in Scotland. While our conditions vary somewhat from those surrounding the Scotch farmer, still there are maeral valuable lessons to be learned from the getchmen, who methods practiced by the canny Scotchmen, who have found, from long experience, that the methods now employed are the most remat turnips form the covered. the wation, and also that. "elbow grease," basis of the rote cleanliness of the animals, is a paying expenditure of labor. There is no doubt paying expendicure vermin on many of our cattleand other stock-costs farmers a great amount of money annually. The wise Scotchman has found that out, and knows enough to apply the remedy. While the Scotch farmer ho expensive and corn not fodder, because hay our stock on one or both of grown, we calmost as cheaply as on straw, the ad these foods, amich is evident.
vantage of dotailed reports from these feeders, the In the whith which Canadian stockers are spoken of favoreveral is worthy of comment, and we need not wonder at the many Old Country protests against the schedule order. Only recently an influential delegation held a conference with Sigh Commisioner, in order
per, the Canadian High Com for a removal of the that fresh
embargo.
It is well to remember that although these northern counties of Scotland are picturesque enough,
and much good soil is to be found in them, yet
got


The first page illustration adorning this issue of the Farmer's AdVocate is a life-like represen
tation of a group of Herefords, the property of Mr H. D. Smith, Ingleside Farm, Compton, Que. Th portrait is appropriately
The large cow in the foreground is Lady Tushingham 3rd (44679), calved March 10th, 1890. She is the medal cow for 189, kaving won everything and Ottawa. Her sire is Lord Tushingham, by Cassio,dam Lady Wintercott 12th, by Bredwardine. She is a four-year-old, and has been a grand stock cow as well as a show cow, having raised two calves and is Chicagolast year, third. She was a prize winne best cow among and is esteemed by many as the best cow she is exthe "white faces" ever raise smooth finish, and is of extra quality. A few cows of her type would soon bring the Herefords to the fore. She weighs about 1,900 lbs. in show condition.
Spot 3rd ( 48222 ), the other cow, is very choicely bred, being sired by Anxiety 4th (2947), dam Silvia ( 8619 ), imp. She was calved Sept. 14th, 1890 , and was shown as a three-year-oling first everyfairs as Lady Tushingham, winning first everywhere, save at Ottawa, where class. Here, however, year-olds showed in the same class. Here, however, of splendid character and very fine quality, has a shoulder hard to equal in any other beef breed of cattle. She is a sure breeder, having raised two calves, both heifers and the makings of show animals.

The bull calf, Amos of Ingleside, now fourteen months old, was` sired by Wildy loth (4018), dam Amy 3 rd ( +3430 , by Ansinging first everywhere Before reaching twelve months old he weighed over $1,000 \mathrm{lbs}$. He is the best bull calf ever raised at Ingleside and has every appearance of making great bull, having lots of quality and fine character istics. If nothing happens to him, he ought to
make a strong showing
Ontario Farmers
office of the new Superintendent of Farmers The office of the new Superintendent of Farmers
Institutes for Ontario, Mr. F. W. Hodson, has been nstitutes for Ontario, were excellent quarters for the purpose have been provided
Though the time for arranging the winter' Though the time for arranging out the Pro vince has necessarily been somewhat ncourag this season, all the indications are most encourag
ing. The local officials in the various ridings are coing. The local officials in the various rintendent by suggesting subjects specially appropriate to localities, selecting the best paaces for meetings, ad recommending persons
dresses. A wide range of topics will be covered, and the staff of speakers, when completed for different divisions, promises to be the a campaign of all round that has ever gonist of meetings is issued, this sort. As soon asirectors should lose no time
local offiers and dis means whereby they may be
and neglect no mean and neglect no means whereby they may be
made as widely known as possible, in order that the made as widely knownge. No man, however comgatherings an talk effectively to half-a-dozen people
petent, can scattered about in a town or village hall. A arge, attentive and appreciative Apart from the actual information brought out by addresses, papers and discussion (often the very best part of a meeting, these gatherings have almost bringing farmers into sympato agricultare doing away with the tendency to
thetic contact; isolation : promoting unity of action; awakenity enthusiasm, and inspiring the farming with confidence in this the foundation generally with coniden
industry of the country.
Ontario Agricultural and Experimental Union The sixteenth annual meeting of the Ontario Agricultural and Experiment College, Guelph, beginning at $10 \mathrm{a} . \mathrm{m} .$, Dec. 18 th , closing the following afternoon. The cooperative ex pill be reports from
extensive than ever, and there extensile than ever,
the following extal committees: Agriculthre, Horticulture, A piculture, Dairying, Exonomic
Botany and Entomology. Amongst those expected
Hon. John Dryden, Provincial Minister of Agriculture: Wm. Mulock, M. P, To
to
ronto; T. B. Terry, Hudson, Ohio, a noted agricul ronist and writer. Othergood abjects of interest $t$ give addresses upon various subjects of interest to
agriculturists. All are arnestly invited to be presagriculd take part in the discussions. Any one com-
ent and
to ing should purchase a single ticket or ailroad certificate. If fifty at the same timese return fare will be one-third
purchase tickets, the
if less, the return fare will be two-thirds single fare
IR. F. HoLTERMANs, S.ecs.

Sheep Husbandry $\rightarrow$ An Outlook. At the last annual meeting of the Oanadian Sheep Breeders' Association, one of the papers presented gave a decidedly affirmative answer to the question, "Should sheep be more extensively raised in Canada than they are at present? pointed out in the first food supplies are and will continue to be imported free. Mutton is one article of which immense quantities are imported from Australia, New Zealand and elsewhere. Though very cheaply produced in the Antipodes, it has to condition, and cannot reach the market in the best possible condition, and the Englishman is most particular about the quality of his food. We can place upon the British market a superior quality of mutton. Canada is comparatively near this great market, and our reputation as a superior breed lg ground is world-wide. The immunity of our flocks from disease is another vantage-ground of because uniform value hon lessens losses and the cost of production, as flockmasters well know. The foods requisite, too, are produced here cheaply, and in great abundance. Exch year is bringing experience of great value in this direction. In short, we have the foundation stock and all other conditions favorable. Incidental advantages to the Canadian husbandman arises from the usefumess of still, the enrichdown weeds; and follows the tread of their "golden ment of soil that folrong and growing consumptive demand added to the foregoing considerations, it is surely safe to say that sheep should be more ex tensively raised in Canada than they have been during recent years.
British agricultural returns, lately issued, show that there are over a million and a half less sheep in the United Kingdom than there were in 1893 ; consequently, as our Scottish correspondeve palue of out, the rapid and sustained of wonderment. The sheep men there have had a remarkably good year even in the face of large importations from Canada Last year Canada sent over only some $\mathbf{4 , 0 0 0}$ or less, but up to about November 1st., 1891, the Govern ment live stock inspectors reported to the Canadia Minister of Marine an export of over 130,000 sheep Unless it be in the has shown such a phenomenal
ncrease. United States the Wilson tariff wa In the d nited states the condition in the sheep trade, and sheep have been pouring into the markets at an alarming rate, greatly depressing
prices. With a permanent reduction in the supplies, which would seem inevitable, values will begin increase, and the prices of sheep wis issue Mr. J. C Snell calls attention to one decidedly hopeful
phase of the Canadian trade with the States in phase or breeding purposes.
she for those embarking or
th those embaring extending their interest in this industry, the present seems most opportune, in view of the exceed of breeding stock can be
which the very pick of
A Word With Our Readers and Agents
The publishers of the Farmer's Advocate respectfully request the assistance of the find the subwhere in extenongow begun. By so doing you will scription season now do us a good turn.
In order to facilitate making up. our extensive
mailing lists, we ask all our present readers to reneve mromptly. Agents or those desiring to secure new subscrib-
promptill be specially interested in the splendid list of ers will be specially interested in the splendid list of
premiums offered on another page. Read it. The premiums ofrered
proper time to begin work is nox.
Sample copies and terms will be sent on applicatio

Freight Rates Commission
The commission appointed to enquire into the freight rates on the $\mathbf{C}$. $P$. R. has organized at
Winnipeg. It consists of $P$.
Archibalu, Chief Engineer of the Intercolonial Railway; H. W. Schaefer, also of the Intercolonial; W. N. Allison, Homestead Inspector. The commission will hold
meetings at different points in Manitoba and the meetings at different points in was held in the Wrinnipeg City Hall, on Nov. 26. Hon. J. D. Cam-
eron was present on behalf of the Manitoba Goveron was present on behalf of the Manitoba Gov
ernment. and Messrs. Bell, Ashdown and Riley
epresented the Board of Trade. After a lengthy represented the Board of Trade. Aer request of the
discussion, it was decided, upon the
Vinnipeg Board of Trade and the Manitoba Gov Vinnipeg Board of Trade and the Manitoba Gov
ernment, to postpone the sittings for two weeks, in rniment, to postpone the sittings for the Board particularly requested that no session be held at any Provincial
point before the inquiry was held in Winnipeg. It point before the inquiry was held in Winnipeg.
is probable. however. that some country points will
be visited during the interval

THE FARMER'S ADVOCATE

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the leadina agricultural journal in the

## DOMINTON. <br> PUBLIBGED BY <br> THE WILLIAM WHLD COMPANY (LITTEDD Lostoon, Ont., and Wingitrea. Marr.

John Weld, Manager.
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## CONT円INTS













The Soclal Corne
Quiet Hour:-479.


Clubbing Rates for 1895.
Our subscribers may obtain any of mentioned below at the fome Magazine and Farmer's Ading News.
Toronto Evening News morning edition Toronto Daily Globe, morond edition Toronto Empire, daily Toronto Empire, evening edition...... Fireside Toronto Weekly Mail The two combined
Toronto Weekly Globe
Toronto Weekly Empire.
London Free Press, weekly editio
London Free Press, weekly
London Advertiser, weekly
London Advertiser, Witness

Wheat Reports from Rothamstead. Rothamstead Experiment Station is one of the oldest, and stands, perhaps, the highest in repute of any in the world. Sir John B. Lawes, in reporting shows that 1894 has only been surpassed once in yield at that station since it commenced in 1844 yield at hat being 18633 , in which the average yield
that yer acre, under all conditions, was 403 bushels, as
per per acre, under all conditions, was 403 bushels, as
against 38 bushels this year. Last year the aggreagainst 38 bushels this year. Last year the aggre-
gate wheat crop of the country was the worst in
point of quantity since 1879, and worst in point of value in the present century. Bad wheat crops are generally grown in England in wet years, but the low
vield of 1893 was the direct result of continued drouth. It is fully recognized that the weather has a very important influence on crops in England, as is the
case elsewhere. As the Rothamstead experimental case elsewhere. As the Rothamstead experimental
wheat field is cultivated, as nearly as possible, in the same way every year; the seed sown as nearly as
possible at the same time, and the same manures
pit are applied to the same plots year after year, the
results afford a measurement of the influence of the results afford a measurement of the influence of the
weather of each year which cannot be obtained un der other conditions. We give the produce on the
selected experimental plots in 1894 and 1893 , and for selether comparison, the produce on the same plots
in 1854,1863 and 1864 , which were the three years of greatest produce sinc
experiment in 1844 :-

## 


Comparing first the produce of 1894 with that of
1893, it is seen that the unmanured plot gives very 1893, it is seen that the unmanured plot gives very
nearly twice as much grain in 1894 as in 1893
namely, 18 busels per acre, against only 97 bushels in name. y, 18 busels per acre, against only secured from the unmanured plot
1893. The yields
is a striking commentary on the results that may is a striking commentary on the results that may
be obtained from good cultivation alone. The farmbe obt manure plot has given 45it bushels this year,
yard manur yard nanury 343 in 1893. . It is worthy of remark
against contrary to what is usually the case, the farm-
that that. contrary to what is usually the case, the farm
yard manure crop was laid earlier, and more comyard manure crop was laid eare other plots. The pletely, than manure gives, as a rule, more even pro-
farmerd
duce, and is less influenced by good or bad seasons duce, and is less influenced by good or bad seasons
than the artificial manures. This was especially than the artificial manures. The year of the highest produce of grain yet obtained in the experi-
mental field, and of the highest produce of straw, mental field, and of the highest produce of straw,
excepting that of the present year, 1894. In 1863
the farmyard manure plot gave 44 bushels, whilst the farmyard manure plot gave 44 bushels, whilst
the three artificially manured plots gave respe-
tively 533 tively $53,55,5$ and $55 \frac{1}{2}$ bushels. In 18,5 $19{ }^{2}$ bushels, whilst this year they have given considerably more than twice as much, namely, 43, 49 and
17 bushels. It will be noticed that the quantity of 47 bushels. It will be noticed that the quantity of
straw produced in 1893 was little more than onestraw prot of the present season's crop; the differ-
fifth that of ence due,
moisture.
moisture.
Owing to the drought and high temperature of 1803 , much of the otherwise available fertility of
the soil was locked up and useless for the crops of the soil was locked up and useless for the crops of
that year. The results in the experimental wheat that year. The results in the experimentar point. Not only were some of the spring-spread manures observed on the surface of the ground at harvest,
hut the drainage water collected from the various
plots after the harvest of 1893 , and before the sowplots after the harvest of the artificial nitrogenous futilizers, early in 1894, was considerably richer in
nitrates than usual at that period ; and it was hitrates than usual at owing to the large amount of nitrates in the soil that the wheat crops showe
luxuriant winter growth. It is impossible to say luxuriant winter growth. Tt is impossible
how much the erops of the country generall, have fertility; but it is reasonable to suppose that the have done so to a considerave all shown very good
beans, and even roots, have growth. It has abundantly been proved that not only on the average of years, but in a very great majority
of the individual seasons, from 18.52 np to the pres-
ent time, the calculated average produce of the ent time, the calculated average produce of the
selected plots in the experimental wheat field has
very closely indicated the average yield per acre of very closed Kingdom at large.
the United

As regards the supply of wheat needed from out-
ide sources to feed the population of the United Kingdom, the area under wheat in Great Britai and Ireland was rather less than two million acres. This, at 33 bushels per acre, would yiel a hom
crop of rather more than eight million quarters, and crop of rather from this, two bushels per acre for seed, would leave seven and three-quarter million quar ters for home consumption The estimated tota
requirements for the year is about t wenty-nine and one-quarter million quarters, which leaves the estimated requirements from stocks and imports to about twenty-one and a-hation milion quart likelihood of a good deal being fed to stock, the demand from abroad will therefore be just so much increased.
According to official estimates, the stocks in warehouses at the commencement of the harvest year were about one million quarters less than at the
same period in 1893 . Upon the whole, the evidence same perio the conclusion that probably more than twenty-two million quarters will be required to be provided from stocks and imports within the curent year.

## British Columbia

The City of Victoria is most beautifully situated, and has within it considerable wealth, many eviences of which are most a the new Provincial Government Buildings adds much to the city as a whole, and when fully complete will be a most pleasing combination of beauty and usefulness. the victoria fair.
which was held June 2nd to 6th of October, was the 18th annual exhibition of this Association, and was unquestionably a success, and had many featurention the very manifest interest taken in the Exhibition by a number of leading merchants and manufacturers, which resulted in making the Main Building one of interest, and of which the city might well be proud. There seems, however, to have been a lack of that unity of action so desirable in matters of this kind, between the Fair Board, Street Railway, and citizens. The admission wa
the same as at the World's Fair grounds, 50 c ., or twice as much as it is to the Toronto Industrial Car fare to city limits, 5 c . ; an additional 5 c . was charged for a few rods to the terminus of the line, from which point you were permitted to walk, free of charge, to the entrance gate. Had the Stree Railway extended their line to the gateway and charged a oc. fare, the Yair Board reduced th admission to 2ac., an what was on exhibition, and the city press used as much ink to increase the attendance, as they did about the double fares to the grounds, a result would have been obtained ove which Street Railway, Fair Board and citizen would have had united cause for rejoicing.
It was regretted that so little stock was shown largely to the reports of disease among the bovines,
while in other kinds of stock, probably lack of interest would account for it
Horses were fairly well represented, and severa splendid animals were out. That magnificen
Clydesdale stallion, McRaw, an importation of Robt. Beith, Bowmanville, Ont., was a worthy
representative in his class, carrying off first. Th representative in his class, carrying off nurst. Show, and with such splendid ones as Midrar (Standard-bred), and Lollard (Carriage class),
nothing less than first could be reasonably expected. nothing less than fermit mention of many other ex hibits of merit. The Shorthorns from the Tolmi Estate comprised nearly the whole exhibit in thi
class, and contained some fine specimens. Dairy cataste were few in number, Jerseys predominating In sheep, the best represented breeds were Leices ters and Southdowns, the former mostly the
property of the Tolmie Estate, the latter that of property Wilkinson. Shropshires where shown by © Heatherbell, who captured nearly all the prizes, and Oxford Downs byinners pigs the breed by far mos winners. In Berkshire pigs, the breed by far most
numerous, J. D. Bryant was the owner of all the winners, some of which were very
The Fruit and Vegetable display was good, some
of the specimens being of enormous size, one apple (variety, Warner's King) grown at the Experimental Farm, at Agassiz, measuring nearly 16
inches in circumference, while the display as a inches in circumference, while the display as a
whole, of cereals, fruit and vegetables, made by Superintendent Sharp, attracted much attention, has charge.
M. Gosseaux, of Louvain, Belgium, has a model piggery ranges of sties are situated in green ields:
He breeds and fattens some 2,00 hogs annually : race, the Yorkshire; they consume 500 tons of
meal alone per annum. The sheds are lit by the electric light. A veterinary surgeon visits the stock
daily, and there is an infirmary for ailing animals. The floors are daily flushed, and the sties weekly
whitewashed. whitewashed.

## STOCK.

The Status of Canadian Records at the U. S Customs Line.
In May last, a strong delegation, representing the leading Canadian Live Stock and other organ ization, held a conference with the Government a Ottawa, in order to secure recognition by the United states authorties, at the Custious stud, herd and ficates of registration in our various stud, herd a registration in English, German, or other than Canadian herd books, was accepted as sufficient evidence of purity of breeding; but in the case of tock going across the lines from Canada, unless egistered in American books, duty had to be paid. To obtain redress from this grievance, the delegation sought the co-operation of the Ottawa author ities. In due course, Hon Mr. Angers, the Minister of Agriculture, opened up correspondence, through Wenperial authorities, with the Depaly which ashington, which has change asked for, but says there is now no discrimination, as the same principle s applied to stock records of other countries. The Acting Secretary of the U. S. Treasury explains that no registers on the American continent are recognized except those of associations in the United States, unless such registers are for "Breeds of stock orginating in the country were the recore is established." Thus, if Canada has any pure-bred stock "originating in the Dominion," the record books of such stock will be consid of Agriculture at Washington, on the same principles as are applied to the stock record books of any other country We are advised that the Minister of Agriculture will make further representation on behalf of our breeders in this matter.

## Live Stock Conventions at Guelph.

The annual meeting of the Dominion sheep Breeders' Association will convene in the City Hall, Guelph, at 1 p.m., on Tuesday, Dec. 11, when Abingdon, will be delivered, officers elected and Abingdon, will be delivered, officers elected and nated, after which will come Mr. Richard Gibson's criticism of the following papers printed in the last annual report: "Wool-growing in Ontario," by G. E. Day, B. S. A., O. A. C.; "Canadian Sheep at the World's Fair," by J. C. Snell, and the remaining articles in the report, from page are requested clusive. The writers of those papers are requested to come pre
will follow.
In the evening, at a joint meeting of the Sheep and Swine Breeders' Associations, reports will be received from the Exhibition Committee commit tees $r e$ the repeal of the U. S. customs regulations as they effect animals registered in canadian records, and the grievances of breeders and exhibi tors re shipping stock; from the committee to draft model rules and prize list; Stock Sale Committee; from delegates to Fair Boards; the repory the Secretary, Mr. F. Ind., and Dr. Mills, President of the Agricultural College.
The annual meeting of the Swine Breeders' Association will begin at 10 a.m., on Wednesday, Dec. 12, with the address of the President, Mr. D. DeCoursey, of Barnholm, followed by the election of officers, representatives to Fair The next session nomination of expert judges. C. Snell will criticize papers published in the last annual report, from papers 14 to 50 , inclusive. After the discussion, Hon. page 14 to 50 , will deliver an address on "The Principles to be Observed in Establishing a Flock or
Herd," followed by Prof. Wm. Saunders and Prof. Herd," followed
J. W. Robertson

At 10 a.m., on the 13th, Mr. C. A. Zavitz, B. S. A., O. A. C., will address the Sheep Breeders' Association, on "Fattening Lambs," and Mr. John Dicken will read a paper ond Elliot and others.
be discussed by Mr. Andrew Ene and and most attractive programme. Stock Show is held in Guelph on the same dates, no farmer or breeder who can possibly attend, should miss this great event of thay cerBefore starting should be secured from the tick
tificate
order to secure a reduced return ticket.


Chatty Stock Letter from the States. The end of the range cattle season brought in a tremendous crop of delayy of way. As a large
had been waiting for the right
share of them had not been properly fed, the denoralization in prices was great.
While the few extra choice cattle ruled steady in value 75 c . per 109 lbs . in a few days.
The heavy hogs coming are fairly fat, but mainly sowy," while the proportion of thin pigs is great
Prices for cattle, as compared with a year ago Prices for cattle,
appear as follows:-

\section*{| Grades. | Extreme <br> Prices 1894. | $\begin{gathered} \text { Top } \\ \text { Prices. } \\ 1893 \end{gathered}$ |
| :---: | :---: | :---: |
| ${ }^{1500}$ libs. | \$410@\$645 | \$6100 |
| 1350 ¢ 1500. | 310 (14 590 | $\begin{array}{r}540 \\ 540 \\ \hline\end{array}$ |
| 1050 ( 11200 . | (erer |  |
| 900 © 1050. | (ex | ${ }^{4} 85$ |
| Stockers and Feede | ${ }_{2} 40$ (a) 370 | 375 |
| Canners. |  | $\stackrel{3}{3} 75$ |
| Bulls.. | (140 | ${ }_{6} \mathbf{2 5}$ |
| Texas steers | 250 (c) 325 | 325 |
| Texas cows | (ex | $\begin{array}{r} \\ \hline \\ \hline\end{array}$ |
| Western steers | ${ }_{2} 90$ (14 350 | 325 |

The demand for feeding cattle in Texas and the South-west is greater than the supply. A good cago and shipped to Missouri feed companies. This, and many other things, tend to show that is a better plus cattle crop is small, a
time ahead for intelligent
who stick to their business
who stick to their business.,
A lot of 73 "sweet little" Hereford steers, averaging 1,086 lbs., sold at $\$ .510$ on a day when dec.ntly good $1,400 \mathrm{lb}$. steers sold at $\$ 4.50$. It is the old st
of blood and quality being on the winning side. Comparative receipts of North-western range cattle at Chicago for the past three seasons were as
follows, estimating the remainder of the now pracfollows, estimating the rema
tically closed season of 1894:

## 

Totals
 $348,400 \quad \frac{1.60}{314,380} \quad \frac{1,0}{271,0}$ of sickness among pigs thi The unusual amount or erable attention. Variou theories are advanced in explanation. them in contact with infected cars, yards, etc., wa the cause. Others claim that the substitution of
wheat for corn was to blame in many cases, and wheat for corn was to blame
The tuberculosis scare in the Eastern States is
The the creating a great deal of
tending into the West
ending into the West.
Lumpy-jawed cattle are now quite practicall
nspected and dealt with at Chicago. Under the old methods dishonest dealers got hold of a good
many of them, and disposed of the meat to local many of them, and disposed of the meat to local consumers. Since the Chicago Live stock Exchange
has taken hold of the matter in connection with the State and city authorities, the abuses have been
corrected.
Mr. Nelson Morris, the great cattle man, recently
returned from Europe. He thinks Belgium will fol low the example of Germany and Denmark in shutting out United States call of beet sugar, which formerly found a profitable outlet here, and that the farmers over there feel very much aggrieved at the
recent scandalous sugar legislation at Washington recent scandalous sugar legisiation whe of wheat hav-
The estimate of $60,000,010$ bushels ing been fed to stock in the West, since the
drouth cut the corn crop short, is probably high, but the amount of raw bread
Prices for Board of Trade articles, as compared


Wheat shows 62c. decline for cash, while corn is 14c. higher than a year ago. In addition to there
being lots of wheat fed instead of corn. it is safe to say there will be no corn used for fuel in Kansa
and Nebraska instead of coal, as wast the case a fer

## winters ago.

 Janua
Hogs
ago.

The Tenth New York Horse Show The annual horse show in the Madison Square Gardens, New York, areer, a marvellous, success been, in its short career, ad it not been for the social element the financow commemorates the open been so great. Thisk of the New York son, when the fashionabl ing of the New York season, when th' fashionable
people meet after their usual summer suting, and people mee element receives the benefit of this in
the equine auguration. All plans are perfected for the display The inside of this vast building never looked as wel
before. The Association's colors, orange and black before. The Association's colors, artistically arranged, so that the most beautiful effects were produced.
The seats and boxes were clean and bright; the The seats and order and newly painted, it is mag nificent, well covered with tanbark and sand, an large enough for ten or twelve four-in-hand rigs to
drive in at once. Certainly the New York Horse drive in at once. Certaing the
Show, for system kind I ever saw.
The horses are supposed to be all stabled in the building, but the entries were so large thisyear, some
1,273 altogether, that the management found it impossible to accommodate them all, and quite a num ber, and, unfortunately, nearly and our Canadian
ones, had to be stabled outside, and could only be ones, had to be stabled outsid,
seen when exhibited in the ring. This caused a
great deal of dissatisfaction, especially as so many seen when of dissatisfaction, especially as so many
great deald
ponies and younger horses were admitted, owned by ponies and you
To Americans.
To give an idea of the revenue of this Associa-
tion, besides the gate receipts, at $\$ 1.00$ each admit tion, besides the gate receipts, at $\$ 1.00$ each admit-
tance per ticket or $\$ 10$ per week for a season ticket tance per ticket or $\$ 10$ per week for a season ticket,
there are 114 boxes, which have been sold from $\$ 105$ there are 11t boxes, which $\$ 500$ each, to the supprters of the Exhibition; this seems startling to us Canadians, but if we can obtain the new Toronto drill shed for our next
Spring Horse Show, and ask the assistance of the Spring Horse Show, and ask the assistance of the to hinder us in the near future approximating the success of this wonderful show.
The Canadians who come here to exhibitfrom year against great odds showing against the horses owned by so many millionaires; but as our people are not easily daunted, and generally have the class of
horses that win, they appear in greater numbers from year to year.
This year the the following horses:-In Thoroughbreds, only one exhibited by Mr. G. W. Cook, of Morrisburg, a nephew of our lumber king of that name in
Toronto, and Vice-President of the large lumbering company. He showed Ironside, by the Falcon, out f an Irish mare by Cambuslang. This horse was Winner of the first prize as a three-year-old at the
World's Fair. and was imported by Mr. Thomas
We rving, of in a very fine ring of animals. Mr. Robert Beith, M. P., of Bowmanville, exhibited six animals:-Four Hackneys-Jubilee Chie (imp.)-1-108, the well-known forlds Fair
champion, and winner of so many firsts at the In champion, and winner of so many frsts at the out of Monas Queen; he was a winuer here last yea
is a yearling; Lord Roseberry-1-163, also as a yearling; Lord Roseberry- $1-163$, also
daughter of the Black, out of Florence $3-35$, magnificent, well-bred, saddle horse; Officer, and brood mare, Queen Mary. Out of this on Banquo in a list of seven fine Hackneys. Mr. Beith was also ranked fourth in class for Hackney stallion Banquo, Lord Roseberry and a white-stockened weanling, Old Matchless of Londesboro, with three
of his prize for Officer, a saddle horse rated to carry 200 lbs , This animal was formerly owned by Mr. E. M. of hor ieflesh.
Mr. Horace sean, took down five of his Hacknevs: Firerworks- 16 -197: Rosseau Performer-34-198; Lady Cocking-11-646; Althorpe Countess-20-644; and Althorpe classes, in which the animals were owned by the richest people in the United States, who paid immense prices for them; consequently, he was oved
matched, as the Yorkshire type was not approved of by the English judge, Mr. Harry Livesay, of Rotherfield, Eng. Tros., of Claremont, who started from home in good spirits, met with a dreadful loss on their way down, by the death or's Own (imp.)
chanpion Clydesdale winner, Queen' - mourn with the owners of this fine stock-getter, Who has so often been to the front ations. One misSpring Horse show anher; this horse being on the train made so much discomfort for the others,
the two-vear-old Hackney filly, Cherry Ripe-8the two-vear-old Hackney filly, Cherry Ripe-8-
took such a cold that, although the Judge protook such a cold that, athough, the veterinaries
nounced her the best in the ring, and she lost her
threw her out of the contest, and chance this year of a prize in a well-contested ring.
They took third prize in a large pony class with They took third prize in a large pony ciass wony,
Charlie Burgess, the well-known jumping pony,
formerly owned by Mr. Pepper. They have also formerly owned by Mr. Pepper. They have als
wont third prize with Kilnwich Fireaway (imp.)-5 117, in a class of five, where he competed agase
Enthorpe l'erformer and Danesfort, both celebrated horses. (Geo. H. Hastings, of Deer Park, also took
Nr.
down two Hackneys :--Black Nobleman-18- 207 ,


## Chicago Fat Stock and Horse Show <br> from our own correspondent.

The annual American Fat Stock and Horse Show opened with a liberal ally horses. The cattle fine display of stock, especially horses. The cattle, hog and sheep me. The poultry show was very good. The horses, however, captured most of the attention of the public, and they deserved it. building, in which the Fat Stock Show of Chicago was born, the enterprise has been somewhat out o
aint. In 1892 no show was held, on account of the joint. In 1892 no show was held, on account of the of the all-absorbing World's Columbian Exposition. There were a few headstrong people who organized an independent Christmas show that year, byt it was in no sense represent the leading breeds. That meagre san held in a dingy, dismal little shed at the
show wa
By
ans stock yards. By 1993 the big Dexter Park orse Pavilion, built largely for the acean for use, but the
aunual Fat Stock Show, was ready aolumbian show was too fresh a remembrance for the State Board to try to work up anythieg reluc-anfold-fashioned exhibition, and a holiday show. The
tantly held what they called a best judgment of the ceading members of the State
board was that it would have been better to enBoard was that it would have been better to entirely skip the two years that were so bady inter-
rupted by the World's Fair, rather than have hallrupted dy exhibitions, and the results showed that
hearted
However, the breeders their judgment was good. However, the breeders and feeders who were anxious to carry over, were
their catte that were too old to quite clamor big, stock yarr pavilion would become a permanent home of from the centre of the city
was found to be too far was found to be teo frow from and so this year the
to draw the best crow
Tatersall hailding at State and Sixteenth streets, to draw the best crow hill thate and Sixtenth streets,
Tatersal
was used and the State Board of Agriculture made was used, and the state this year's show attractive, a great effort to make hucceeded quite well.
Among the most attractive sights in the cattle department were a couple of roan steers weighing
3,800 and 3,600 pounds. They were bred, fed, and 3,800 and 3,600 pounds. They were bred, ere, and
are owned by $\delta$. S. Stearns ,of Garden Grove, Iowa are "These are the heaviest steers that I ever remember to have seen, and yet are smoothy finished and handsome animals," said E. E. Chester, "The only
intendent of the cattle department. intendent of the care not entered for prizes is that
reason that they are they are both 5 -year-olds, and we have no class for animals over 4 years. I believe the next heavies
steer on exhibition weighs about 3,300 . I consider steer on exh steers as wonders.'
these Iowa
Of course, it is very generaly recognized that the day for excessivber of cattle shown was small in comparison with many former years, numbering less than 60 head. W. H. Renick \& Sons are represented with a consignment of nine head from their
famous Kentuck herd of Shorthorns. J. H. Potts, of Jacksonville, Ill, has five Shorthorns. Adams Earle, of Lafayette, Ind., brings forward seven head of Herefords from the pastures on, Ill, exhibils
Farm. John Hudson, of Moweaqua, six head of Devons. D. K. Pierce, of Creston, IIl., slas five head of Angus. Indiana has a strong repre sentation in the six head of Following sewere those
S. Van Natta, of Fowler. S. Van Nat ita, of Fontler number of cattle: I. Barr
who Sons. Davenport,Iowa; H. J. Fiuck, Goodenow,
A. E. Baker. Beaver Dam. Wis.; Martin Richard A. E. Baker. Beaver Dam, Wis.i Martin Richard-
son, Commerce, Mich.; Richard Hawkey. Belvi-

In the competition of steers, all breeds and rades, by ages, in the two and under three years class, a Hereford was the winner, also in the lears an
than year old class while in the yearling class an Aberdeen-Angus
The display of Shorthorns was not as representative as at many previous shows, but the champions of the red, white and roans contend, and
with reason, that dull times and the lack of enthusiasm on the part of breeders,
In the practical test of the live stock markels, the experience or strains of Shorthorn blood hold their record for capturing top prices in open marke.. Sof the market in Chicago. against great competition.
Fat stock exhbitors thought that end of the show made up in quality what y lack, what quantity. The stock was certainly very good, what
quant was it. The early maturity idea was strong, there was of it. The eary beef" was commendable. In the sheep department Canadian focks, as at the Columbiain, again demonstrated their superior-
ity. Mr. John Rutherford,Roseville, Ont and W. H. H. Beattie, Wilton Grove, Ont., and won B. Beatio.--Shropslire-Wether, under
years, \#.nd: wether, under lyear, 1st. Southdown
y.
 under 1 Pear, 2nd.
John Rutherford- Shropshire-Wether, over :
years, 1 ,t and 2 nd: wether, 1 year and under ${ }^{2}$,


over 2 years, 1st; wether, 1 year and under 2 years,
lit and 2nd
sto
southder Souter 1 ar Grades and Crosses- Wether, over 2 years, 1 st ; wether, 1 year and under 2 , 1 st . wether, under 1 year, 1st; also 1st on pens of Shrop-
shire, Cotswold, Leicester or Lincolns, and Cross bredsheep.
The display of horses was ore of the finest ever made in this country "In fact, it must be admitted
that while the name "Fat Stock" appears first in that while the name "Fat Stock" appears first in
the catalogue of the exhibit, that it was essentially he catalogrie a horse show. The entries in the horse department were very large, while there were
only 60 cattle, as many sheep, and about one good only 10 cattle, as many shep, and about The officicers
car 1 load of hogs in the whole show. of the exhibition seemed to care more for the
horse den horse department than for any other, as in the
catalogue printed they left out everything except the names of horses and horse breeders. the perart turn outs, fancy raiving, riding, high jumping and goo
onted
entertainment, where they would be less interested entertainment, where they woultle fine sheep and
in the various breeds of beef cattle, prine chars. Recognizing this fact, the managers
of such shows are obliged to do what will bring the crowd. as it takes the crowds to pay the bills. The display of heavy horses was certainly very
good, though the competition was narrowed to a goomparatively small number of exhibitors. M. W. W.
comen
Dunham, Wayne, Ill. captured most of the good Dunham, Wayne, Ill., capture,
things in the Coach horse line.
things in the Coach horse ine.
The Shetland pony display was not very large, but good.
The poultry exhibit was one of credit.
There was a largely-attended meeting hibitors for the purpose of forming an organization. hibitors for the purpose of forming an orgasoriation
The National LLive Stock Exhibitors Association
was organized. President H. Fs. Brown , linwas organized. President, H. F. Brown, Min-
neapolis: Secretary, G. Howard Davison, Milbrook,
 to adopt essentially the sa
used at the World's Fair.
The Scottish System of Fattening Cattle. ICompilied from the Hinvestigations of James Black, of Sherift
ston, for the Highland and Agricultural Society. .1 The corner of Scotland that lies north of the
Grampians has a fame for the breeding, rearing and reding of cattle which makes it worthly less than one-fifth of the whole population on the north side of the Border, and not a larger proportion. perhaps,
of the cultivated land to the north of that dividing of the cultivated landies north of the Grampian
line, the eight countien ine, the eight counties
range contributed to the great London Christuas
and market of December, 1892 , some 2,000 of the 3,010
cattle offered for sale in it , and had their own share cattle of ered for sale ries that were reached.
Ihe home and the headquarters of the AberdeenAngus cattle may be said to be in the northereastern in favor. These provide for crossing the best advantage of. The uncertainty of the climate, too, has much to do with the great ate. Except in a catte favored districts, grain cannot be relied on for the revenues of the farm. Cattle and sheep must be looked to. They are the staple products of the soil in higher bring them out in the highest perfection, at the least p $p$,
polouh on the roast
plough on the roast."
We the north-eastern and northern counties one by one, and give examples from each
of how the great commercial cattle that build up of how the great commercial for the butcher :
their reputation, are prepared aberdeenshire.
In its cultivated area, Aberdenshire is the argest county in the ner reaches of the Dee, the Don Except on Deveron, the county is nearly all closely
and the
cultivated, forming a solid block of highly-farmed cultivated, forming a solid block of highy-farmed
land. A fringe of it round the sea coast, and some haughs and sunny slopes along the lower reaches of the rivers mentioned, are pretty early, but all over
the interior the climate is only fairly good. The
the the interior the climate is only fairly yood. The
soil generally is fertile. and as ansture in the
ghe summer months is usually sufficient, oats, grass,
and turnips grow abundanty. For catte breeding and feeding, scarcely any equal Aberdenshire.
Mr. Maitland, Bailhagardy, a representative farmer and feeder, givers old are kept growing rap-
Cattle raising two years idly and in good condition till October, when they
are housed, and fed as many turnips three times a day, as they will consume, with a mixture of hashed linseed cake, and semetimes a mixture of hashed
oats about 3 p. m . They are well.groomed, part in in the forenoon and part in the efternoon. iney are
washed when put in to fatten and ocacionally at
 tening.
Mr. Smith, Burshangie:- - The winter ration, which applies, to all fattening cattle, begins athout
the end of September, in the stall. It is $1 \geq 01$ to 130


is supposed clean the cattle in that
afternoon occasionally for' a washing or extra
grooming of them. And besides this, the animals grooming of them. And besides this, the animals
are washed twice or three times in the end of the $\underset{\text { Mr. Jo }}{ }$ Mr. John Reid, Balqueharn:-Feeding cattle are
 as many turnips and straw as the cattle can con
 -turnips and barley at 8 p.m. All feeding cattle
with oats and
are washed once a fortnight atter being housed, with soft-soapand warm water, and they are groomed
 lar attention to the hours of gro
banfrshire
is a county very much akin to Aberdeenshire. In
respect of soil, climate, configuration and capacitiies for the breeding and rearing of cattle, it may
be looked upon as a slice off the western side of its big eastern neighbor.
Mr. Paterson, Auldtown, says: "I "I begin the
feeders in early autumn, with a mixture of tares reeders in early, atum, all green, or only partially
oats, beans and peas, ripene, , giving no artificial stuffs at that stage
riterwards, when tares are done, by the middle October early turnips take their place, then golde Yellows, topped, which are continued until Swedes time cattie are put on early turnips they get, per head per day, four libs. mixed linseed and ats, fo
seed cake, supplemented by some bruised oats for seemonth before being finished, as Christmas draws
a mont
The catlee are all washed with McDougal's near. The catte are the grass, and afterwards $d_{\text {dip when it is thenght to be necessary. They get }}$ when it turn of the comb after the morning feed, and are again thoroughly combed and
$\mathbf{M r}$. Robert Turner, Cairnton, fattens annually about 18 to 20 young cattle of his own, as well as
about 16 boughten Shorthorn grades. The autumn abed consists of tares and decorticated cotton-cake. The winter ration begins about October 1st, partly in
stalls and partly in folds, or boxes, with not more stalls and partiy in in each. The ration consists of alout as many turnips as the beasts can eat, some
56 lhs in each feed twice a day, and when plentiful. 56 lhs. In eac,
three times, beed smaller, with cake and bruised three times, buiddee of the day. All the cattle receiving extra feeding are washed about once a week
with carbolic soap and warm water, and they are with carbolic soap and warm water, and they are
combed and brushed daily, generally in the forenoon. Whas Kemp, Methercluny, usually feeds from
Mr. Com
12 to of his own breeding, and from 15 to 20 black 12 to 15 of his own breeding, and trom middle of Oc-
polled crosses bought in. About the tober, when grass and tares are done, the winter ration begins. It is straw and turnips, as much as
the animals can eat, with cake and ground oats. The animantities are 60 to 80 lbs. turnips per day, with 3 The 6 ibs. corn and cake. The feeds are: 6 a.m. cake and an allowance of turnips: 11 a.m., turnips; p.m., oats and an anowance ored, an bry it every
feeding is practice and preferren beast cam ne deait whellebore and soft-waap is done
the animals with hell and grooming comes when it is thought necessary: and groomng comes
in occasionally at 10 a.m. Mr. Kemp frequently makes his cattle come too early for the butcher at Christmas. He attaches great importance to taking them in early.
moray.
Most of the cattle fed in this county are bred cows only to supply the house and servants with milk, and buy all the store cattle end of September, or early in October, the regular winter ration begins. It takes shape thus: Cak early in the morning, hen turnips; a avening a oood urnips about mid-lay, mixed with barley-chaff, bruised grain and meats of various kinds. The evening feed is mixed up in the morning, and has
vood bulk in it to fill up the animals for the long good before them. Mr. Mack essack does not believe that too many turnips are favorable for feeding. He gives as much straw as the beasts can consime; tuf are increased in cuantity, especially the cake, as the animals advance in the fattening process. He con folds, even though they are all covered. His animals tied up are all groomed every afternoon, but coo-h
stant efforts are made to leave them alone as much as possible, whether in
peace and rest so helf ful in feeding. Mr. Geo. Petrie, Pitairlie:- Early in September nips and straw until about the beginning of Decer
ber when special fattening begins and is finished ber, when special fatening
in the sprin
From the firs they get straw and as in the spring. From they can consume, and when
many turnips as they
then special feeding commences a small quantity of oil-
haished rye and oats, and a cake mixed with it, 3 to 4 lis. of the mixtare
each animal. The feeding with turnips is twice a day. There is. no grooming or washing, except
dhen specially required. Seling of bullockstakes
wate place in Febriary or March, at two years Geo. .V Colvivi, Weter Manbun:-The main part
of the fatteniug is done in the winter: horned cattle in the etalls ind polled acthe in folds. The regular
winter tation hegins about list November. It con-
sists of as many turnips and as much straw as the
animals can consume, with some artificial stuffs, for about six weeks before selling, to give a finish to th fattening; cake or grain it may be, or both, accord ag to their relation prices. The sfore twice day, at 6 a.m. and 2 p.m.i. a satisfying feed to each ing with carbolic soap is practiced when deemed ad vantageous. Mr. Covin adds. anadian cattle have paid better for the past five can be bought at less money, and they are healthie In the five counties remaining between Moray
In matte, and as rule fatten more quickly. In "John O'Groat's house" (at the extreme north), the systems of fattening vary little from those ing, cattle coming two years old about Oct. 1st, on liberal supply of turnips and straw, with a small nd supplemented with oat-or barley-meal as the inishing period advances. Hay, tou, is often given mportance is attached to keeping the bodies of the nimals scrupulously clean. Some good men practice serving the grain food i

## FARM.

Soil Exhaustion
I propose answering two questions: Why is the soil exhausted? and What will restore it?
First. Why is the soil exhausted! credit cannot he given to our forefathers, whose whose energies and perseverance were great. After a large part of the land was cleared of timber and made ready for a wrong impression prevailed in knowledge or a wrong mptression prevaired soi their minways remain as it then appeared, and even when they commenced to discover their mistake
they did not change their habits, but kept on in the they did not change their the land wheat crop after wheat crop, thereby removing the soluble organic vegetable matter that ade senations, and at the same time putting noth for generations, iace the substances carried off. A last the available natural resources became exhausted, or nearly so, and did not supply the want
of the husbandman, hence the encumbrances that subsequent generations have had, and will have to contend with; so serious, in some cases, that farm
have had to change hands. This is illustrated by the have had to change hands. This is illustrated either number of the olo virgin soil, where the process wa repeated. By way of adding force to what has just
been stated, I will give an illustration: A young merche takes possession. It is stcked to the very doors with the most valuable goods. The
clerks are in attendance. The doors are flung open clerks are in attendance. enter. Solling commences in earnest. First the centre tables and counters ar cleared, then one shelf after another becomes empty And during all this time the merchanmercial travel the fruits or hes along receives the same answer:
ler that comes
"Nothing wanted to-day." At last the store becomes entirely empty, and the proceeds spent in good living. What can be domily must be fed. The only resource is a mortgage on the building, which in time becomes foreup the street. Now. what will my readers say of such a merchant: He was he case with too large a per cent. of farmers of the he farm delegates who visited this country from Britain, in 1890, stylers. This may be emery four farmers herere, but it is not wholly without truth. Let us go more into detail. It is a wrong term is notexhausted, but the different matters which were solubleand soil, properly speaking, is that part of the land The soil, properce, and varies in thickness. In On tario it is from 3 to 10 nches, and animal remains. rock, mixe
Below the soil is the sub-soil, resting upon the solid rock, which is frequently of a different color from
the soil. We cannot here go into the details explaining the formationgs for granted. |NoTE-An nteresting treatment of this topic will be found in
Prof. Panton's articles on "Popular (ieology," now running through the ADrocnte.--Eir.]
The soil has a two-fold office. First. it holds the plant fixed in the earth, and kepps it in an upright position. Storingup up ifferent ingredients for thefuture
house sto soil itself, or the inorganic
food of the plant. The sole food of the plant. Ther contribute but a small pe cent. of the dry sutstance burning straw, wood, etc. That
be explained hy bur
which remains. or the ash, is that portion which which remains, or the the portion which disappear:
came from the soil.
into the atmosphere, originally came from there and was fed to the plant by carbonic acidal my mean
nitrogen, etc.. being washed into the soil
ne nitrogen, etc.. being wash through the leaves. Thus
of rain-water, or taiken in thre the same position as
we see that the soil occupies the
the merchant's shop, merely a store-house. We
have noticed that the soil is supplied by the rain
falls, which bring down the organic elements of the atmosphere, and also by the actions of the frosts of winter and the sun at all seasons. But nature only supplies enough to keep up the ordinary wares ex-
tear the soil undergoes, and if the substancerm of
tracted by cropping are not restored in the form tracted by cropping are not restored in the form of
fertilizers, the strain will be too great, and the storefertilizers, the strain will be too great, and the stone
house becomes nore or less empty. Manures not
only give up the plant food contained in them, but only give up the plant food contained in them, but
they also render the vegetable matter already in the soil more soluble by their chemical ingredients through the agency of rain-water.
To be contimuel.

Popular Geology No. 7.
Having considered some of the changes that rocks may undergo, we are in a position to under stand how they may be grouped for stud of the world, shows that it consists of regular layers, that these layers always occupy the same
relative position to one another-that is to say, that relative position to one another-that is to say, that
if the layers are numbered $1,2,3,4,5,6,7$, etc., you
ill will never find 4 above 5,6 above 8 . This fact is
great importance, for it enables us at once arrange the layers represented at any place
regular order ; some may be absent: in fact, no dis regular order ; some may
trict has all, for we have learned that a place i
lith water before it can receive usually beneath water before it can receive
deposit, and it is not likely all places are submerge deposit, and it is not likely an places are submerged at the same time. Now ing some of the importan
fossils, so that by know the position of the geological
fossils we at once know fossils we at once know the position of the geological
records before us. Remembering these four things 1) the earth's crust is composed of layers; (2) no place has all the layers; (3) these layers are in
regular order ; (4) each layer has its special fossils we can see how it is possible to make a systematic in the earth's crust. The absence of layers is usuall accounted for by considering that the locality was The layers of rock which compose the earth's crust are grouped into Ages, Systems and Formtions. Comparing the stony records of geology to the Systems, periods, and the Formation, chapters The Ages are named according to the conditio of life at the time, $C_{0}$.g., Palxozoic, ancient some cases from places where they have been found Huronian) ; some from the nature of the deposit carboniferous, and some fro day (Eocene).
We shall now refer to the records of geology, and note some of the most important things in each. for vast areas of hard rocks, rich in minerals, and
contain $5^{n}, 000$ feet of rock. It is represented in Ontario by two systems, Laurentian and Huronian. Laurentian System.-This name hell represented an account of the rocks being wawrence. It is a
along the shore of the Lower St. Law mineral area ; the rocks are hard, more or less disturbed, and of ten present the appearance of granit these rocks.
Muskoka, and the east side of Lake Winnipeg, and
between Morrisburg and Kingston on the G. T. R., are places where rocks of this system occur. Many
of the boulders scattered throughout fields in Ontario belong to this system; how they came her will be explained in an article upon the fce Age. stone, serpentine, iron ore, asbest
Hurouiun System. -This name has been applied on account of large areas of it along the northern
shores of Lake Huron. The rocks are much the same as in the preceding, but not so crystalline
They occur around Georgian Bay and Lake Huron They occur around Georgian Bay and and and silve and yield soconomic prodiran. It it is guestioned by many whether the rocks of this Archeran Age yiel
any traces of life, but some believe they do, although any traces of life, but somat doubtful.
the evidence is somewhat PalezozoIC AGE.-This volume is represented b (0,000 feet of rock, and includes six systems. Durin it many animals
fined to the sea.
The Camblyian System is named from Cambri
Wales, where the rocks are well represented an in Wales, where the rocks are well represented and
have been studied. In the triangular area extend have froen Morrisburg on the G. T. R. to the junctio of the Ottawa and St. Lawrence rivers and north to
the Ottawa, rocks of this period are found. Traces of life in the form of fossils occur, and economi stone and sandstone suitable for building and glas Cambro-Silurian System. This name implies above. Limestone is very common among the rocks
of this system which extends along the $G$. T. R. from Kingston to Weston. Whithy, Toronto, Bow
manville and Peterboro are in this area. The
Paces of life are now guite plentiful. Corals are traces of life are now quite plentiful. Corals are
very common; trilobites, crab-like creatures, are very numerous. The economic products are limestone, sandstone, gas, some marble, hydraas we pass
stone and lithographic stone. From this, as hoth animal and plant, each being nearer the forms of our time than those of the preceding.

QUESTIONS AND ANSWERS




## Veterinary. sERIovs CASE.

Johsston Bros, Miami, Man.:-" We have a ten-year-old mare; sore in the font quarters exercise pains her so much that she groans; has been badin her
wind for some years; cannot cough now; think she would be easier if she could cough $;$ is swollen on belly, between the forelegs. Have given soft feed for last three weeks: : gave her fiveld drams shoes and
a week ago: it operated well. but she is getting costive again ; appetite good."
Tition symptoms are indicative of a diseased condition, both of the lungs and liver, and, from the
evidently serious nature of the ailment, $I$ doubt if medical treatment would be of much beneffit. Try the following: Give every night, for ten days,
scalded bran mash containing one pound of crashed flax seed, and into each mash pout two
crushed
mate ounces sulphate of magnesia, and half a dram of
calomel. Give every morning and noon in half ai alomel. Give every morning and noer of the fol-
int of water, as a drench, four ounces hixture :-Sulphate of quinine, two ounces yrup, one pint, water, one quart. Put the anima in a confortabie box, stall, and keep its body wel
ind anketed.
W. A. DUNBAR, V.S., Winnipeg.) chorea in doc
A SUbscribrR :-" Will you please answer
hrough your Veterinary column the following enquiry:-My little cocker hitch is trom continual
an affection of the lower $j a w$; it is a coll opening and closing of the mouth. She had dis temper some time agoi her eyes were very watery
and had spuffles a very good I attribute the nresent trouble heing caused from her stomach. She seems in pretty goo spirits, and is running round the same as usual Creatmen tell me wu put her under? Do you thin it is a kind of paralysis? Kindly let me hear from you as early as convenient.
|From the very accurate description you have
given of the symptons, there is no difficulty in given or the sympons, her tog, as being chorea
recognizing the disease in your and not paralysis. The treatment is not aiway.
satisfactory, but with patience and good nursing. you may relieve the urgent symptoms. Procure
from the chemist the following medicine:

 at the same time keeping the animal warm and comfort thle.

## , M. R. C. V.S.

Miscellaneous.
G. W. Grant, Ballinafad:-" Can you inform me, through your valuable paper, whether ventil-
ators in a hog pen should tart from the ceiling or a short distance above a constant circulation of fresh air, it should be admitted at the bottom, arranged so as not to strike upon any of the pigs directly. It is important to keep the walls of a hog pen dry,
which can only be done by ventilation through the ceiling to allow the eecacape of steam and over-heated
con
ir wich rise. All ventilators should be arranged to air which rise. All ventilators should be arranged to
close when desired, which will he most of the time
We would refer Mr. in a good many hog pens. We would refer Mr.
irant to Mr. E. D. Tilson's method of ventilation of
 ato his stable through pipes, that of the earth
in frosty weather.
mantoba regulations re blanderb.
Exqurke:-" Would you kindly advise me
and what the slaughter of horses effected with glanders and if any compensation
|The Provincial Veterinarian. in any district, has The Provingher any horse effected with glanders and to quarantine any horse in a doubre on

ent tagion | tagion is past. |
| :--- |
| but the municipalities have power to pass a by-law |

 no such by-law, the owne.]
glanders has no recourse.)
"The vast deposit of black mud" on the farm of
your New Brunswick reader is evidently a bed of swamp muck. This mater ol, conshy plants, is com-
less decomposed remains of marshy posed of combustible matter, ash and water. much as 50$)(t)$ ( 10 per cent. The combustible matte of muck contains considerable nitrogen in combin
ation, some as ammonia, but the greater part in
active. The ash of muck is similar to that of ordin
ary vegetable matter，containing the usual ash
materials，such as the carbonateo of lime，magnesia materials，such as the carbonates of lime，magnesia
and potash，sulphates and phosphates of lime， axides of iron，et
PowDERY MUCK．－This usually occurs on the
surface of muck beds；；it has a deep brown color ； is not sticky，and contains no acid．
CHEESY MUCK．－This is a black，sticky mass much water．This variety of muct，upon drying， shrinks and cracks，forming，in this dry lumpy con－
dition，what might be called coaly humus．Cheesy muck，should neverer bee used on land or．in com－
most．It should first be converted into powdery
dit post． t should first be converted into powdery
muck，which may be used with great advantage posts．Cheesy muck thrown up into long windrows posts．Cheesy muck thrown up intin the winter，to the action of frosts，is converted into powdery
muck．In this form it may be used profitably upon muck deficient in vegetable matter，as stated above． But a much more proftable way of using this
powdery muck is in composts with fresh stable powdery muck is in composts with fresh stable manure．Use elqual parts lime in composting the muck and stable manure，on account of the action
of the lime in liberating ammonia．At the time of or wood ashes may be used．The quantity should or wood ashes mayshels per ton of muck．The ashes or the lime may be spread over the land either
before or after the application of the composts，and the whole then worked into the surface soil．A
compost of powdery muck and stable manure，in compost of po fiver months，would decompose into an excellent top－dressing for a meadow or
A．E．SHUTTLEWORTH B．S．A．

Agricultural College，Guelph．
Nineteen Reasons Why Every Farmer Should Read THE FARMER＇S ADVOCATE，and Recommend it to Others．
1．Because it is devoted to the business of farm inowadays every wide－awake man reads a liv̂e paper dealing especially with his own employment or business．In no occupation is it more essentia than in farming，and never so much so as in thesed
days of keen competition，when men are compelled days of keen competition，when men are of farming． The Advocate gives seasonable，up－to－date infor－ mation in every issue．The lo

2．Because those who write in its columns are the foremost，most successful and practical agri culturists，stock－ra America and Europe
3．Because it is non－political and entirely inde－
endent，and deals with every issue from the practi－ pendent，and deals carmer＇s stand point
4．Because it treats fully on every department of the fa．

5．Because its columns are always open for the
年 discussion of any subject in a manner beneficial free discussion of any subject
to the farmer and his family
6．Because we have a household department
we brimful of useful and instructive reading for the family－young and old
7．Because money is not spared in securing the
very best articles and illustrations，for the benefit of our readers，that are to be obtained．Our live stock illustrations are admittedly the finest．
ing in any agricultural paper in the world．
ing in any agricultural paper ialty of giving report 8．Because it makes a specialty of giving reports
from farmers on different varieties of grains，fodders and roots．
9．Because we make a specialty of introducing new varieties of grain and vegetables，and stimu－
late the improving of live stock in every possible late the
way．
10．Because we are in direct communication with the great European，American and Canadian Ex－ perimental Stations，and report the results of
experiments which will be of benefit to our experime
readers．
11．Because we have no favorities，but give each breed its just share of attention．
12．Because we publish a reliable＂Questions and
Answers＂Department，in which Legal，Veterinary Answers＂Department，in which answered free．
13．Because we publish reports of our great ex－
hibitions，together with the name and address of hibitions，together with the name
the prize－winner，free of charge．
14．Because we publish the doings of various
Associations－Horticultural，Stock Breeders＇，Dairy－ Associations－Horticultural，Stock Breeders，
men＇s，Poultry Raisers＇，Farmers＇Institutes，and all others． 15．Because we expose all manner of swindlers 16．Because its contents are clean and outspoken 16．Because its
upon all subjects．
17．Because it contains advertisements describing 17．Because it contains advertisements
18．Because it is published twice a month，and
contains trom 20 to 24 pages in each issue，hand－ contains trom 20 to 24 pages in each issue，hand－
somely printed on good paper．Hundreds of
farmers have files of the ADvocate preserved for somely printed on good paper．
farmers have files of the ADvocate preserved for years past．
years past．
19．Because it is only $\$ 1$ per year，and is，there－
fore，the cheapest journal in America，considering

## DAIRY

## A Disturbing Bulletin．

In a bulletin issued a couple of months ago，by the Dairy Department of the Ontario Agricultural College，Prof．Dean favored the plan of adding one， or even two per cent．to the fat readings，in appor－
tioning dividends by the butterfat method of pay－ ing for milk at cheese factories．He based this opinion upon the results of some experiments car－ ried on at the college in making cheese from milk containing different percentages of fat，during periods extending from April 30th to May 7th，and from June 4th to June 9th－in all， 26 experiments． By arranging the average results of these experi－ ments with the addition of some further resuts
cured in July，the following table was obtained ：－

|  | $\frac{0}{2}$ |  |
| :---: | :---: | :---: |
|  | 影 |  |
|  |  |  |
|  | 「管管 |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | 8 ¢ |  |
|  |  |  |

In this table $H$ and $L$ are assumed to he patrons furnishing milk with the percentages of fat given． ods，as shown in the last five columns．According to these figures，by adding two per cent．to the fat
readings，the results are nearer the actual value at readings，the results are nearer the
ten cents per lb．of the cheese made．
The results．of Prof．Dean＇s work seem to vary
considerably from those obtained by Dr．Van Slyke， considerably rom those obtal Station，N．Y．who
of the Geneva Experimental carried on a large number ot orips，covering 100 days， from April 12 th to October 31st．The results of Dr． Van Slyke＇s long series of experiments go to show ndicator of the value of the milk for cheese－mak ing，and that if milk containing four per cent．of butterfat is worth $\$ 1$ per 100 lbs. ；milk containing tree per cent．of fat is worth seventy－ive cents
100 lbs．
From recent information，we learn that Dr．Van Srom has pursued his investigations still
urther in 1894，and the results obtained corroborate previous ones．
In Prof．Robertson＇s investigation，the quantity with the fat percentage，but the differences were re ported so small as notaced a higher value on the cheese from the richer milk．The general rule，both in theory and practice，is，however，in favor o the richer milk，both for quantity and quahty finest quality of cheese is made in September and October，when the milk contains a larger percent age of fat than previously；but dinite．
It was chiefly due to the evidence furnished by Dr．Van Slyke，in addition to that furnished by the experiments carried on under Prof．Robertson，at
the Perth Dairy Station，and by Mr．A．T．Bell，at the Tavistock Dairy School，that so many of our cheese factories have been induced to adopt the
butterfat system of paying for milk．The result butterfat system of paying for milk．The result
of the work carried on by these gentlemen have in－ spired confidence in the minds of patrons that the
system was correct．In nearly all the Western Ontario factories，where used，this plan has been re
ported to be giving good satisfaction ；but from re ports recently received，Prof．Dean＇s bulletin seems to have produced a very disturbing effect among
patrons，and it is feared that in many factories the system will be discontinued another year．Though he bulletin in no way condems the system of pay－
ing by quality，yet too many are always ready to
juinp at conclusions，and the very fact f thion jump at conclusions，and the very fact，of this
official bulletin advocating so great a modification of the present method their minds，and led them
system，has the the to conclude that the system is unreliable．
A great many patrons fail to comprehe．
A great many patrons fail to comprehend clearly
the import of adding one or two per cent．to the fat readings，and，unless it can he satisfactorily ex－
pained，it will be difficult to convince them that

Prof．Dean＇s results differ materially from those
of Dr．Van Slyke．It has been claimed that this is due to different conditions under which cheese made in New York State and in Ontario．The Americans are softer cheese than Canadians，but it is difficult to see how this would vary the comparative results， for the richer and poorer milks would be similarily treated on each side of the line．There should of no material York State and in Ontario．The only other condition which might effect the results would be the proportion of taints or bad flavors in
the milk，but from what we can learn，there is little or no difference in this respect．
The inadequateness of adding two per cent．to the fat readings will be seen if applied to skim milk．If，for example，separator milk，which usually
shows about .1 of one per cent．of fat，were com－ pared with four per cent．milk，and two per cent． were added to each，the separator milk would be worth one－third as much as the four per cent．milk，
while the cheese made from it would only be a
＂skim＂of the poorest description，barely worth the white＂of the $p$
cost of making
cost of making． A strong point in favor of the original plan is that it puts a premium upon sending unadulterated or whole milk to the factory．
A few issues ago，we took occasion to point
out that experimentalists make a grave mistake in out that experimentinsts the basis of limited data， merely to get something before the public．Once facts have been ascertained beyond peradventure， through long－continued and repeated investiga－
tions，then，by all means，give them publicity，but tions，then，hy all means，give them publicity，but
not before，otherwise harm will be done，both to the community and to the institution or experi－
menter．An official bulletin coming from an insti－ menter．An official indetin coming from an insti－
tution with the standing of the O．A．C．Dairy De－ partment，should have in it the essential element of panality．It would have been better to have de－
ferred the issue of this bulletin till the end of the ferred the issue of if repeated experiments seemed to verify the original conclusions，it could have heen brought out in time for the winter gatherings
of d dirymen，and been fully explained，discussed and approved．

## POULTRY

Preparing Fowls for Exhibition．
In view of the approaching Ontario Poultry
Show，ia few words on getting the birds into con－ dition will not be amiss．Henry Hales has evi－ dently had some experience in showing，by the tone
of his article in the Poultry Monthily．He says in substance：－＂To make sure of fowls being in a proper condition，it is necessary to carefully look White birds require more care than any others，as he least tinge shows to the disadvantage of the owl．Washing in warm water may be resorted to， when great care is exercised，ar shipping to the fairs
too cold．It is a good plan before to place pens or pairs in handy coops，to give them an opportunity of getting acquainted．Although this it is very annoying and costly to an exhibitor when an exception occurs Nothing is more provoking than to go into the show－room and see any of your chances of a premium．Besides this，cooping for a day or two tames the birds，if they are inclined to tage．White birds may be prepared by careful ponging with the water．Wash the surface of the feathers，hold ng one hand under them to keep the water from
penetrating to the skin，rinse off with pure water， and rub down dry with a soft cloth；keep them in a warm place till dry，but not before a hot fire． Wash the legs and combs，and slightly oil them
with sweet oil，and see that all the birds are in good，healthy condition．Shutting up white birds in a dark place will bleack them，but the risk of injuring the health is too great to resort to such
a plan．A little hemp seed or sunflower seed is all he extra feed exhibition stock requires；these will add lustre to the plumage．A supply of grit and The confinement in small show coops，and the mo－ notony of their fare，both have their meal．Chopper
feed should be varied from meal to ment cabbages and meat fed every day，or every other
day，to each bird，dnes very well，and much betted

## New Premiums．

Additional attractions appear on our premium page in this issue． his man who keeps live stock will appreciate this opportunity to secure a copy of the Canadian
edition of that standard work，Law＇s Veterinary
Adviser（price $\$ 2)^{2}$ ，by sending us two new sub－ scribers，at $\$ 1$ each． Annual，＂＂Child＇s Oown Magazine＂and＂Young The announcement tells how to get them． Publishers Farmer＇s Advocate，＂I have
rereived the watch，which came to hand in good order．Am very much pleased with it，and am



THE COMEDY OF THE JEWELLED LINKS.




I had no doubt of that, but I kept my face while hele him a bracelt
on to mutter and to chortle; and I showed hare
rubies, which he desired instantly to purchase. I had put

when you're as poor as a parson. I am quite a poor man, you
know, Sutton."
$\square$
$\square$
$\square$
$\qquad$
$\square$
$\qquad$
$\qquad$
$\square$

$\square$
his manner, I thought, and hummed and hawed ciat last.
ably before he would expain his mission. 1 .'s about those links 1 gave my nephew," he said at last.
ind
 IMan, you're wrong, 'le eot them in my pocket."
I must have expressed my astonishment in my look, for he
 d'ye see?"
"rthought that you had already handed them over." I
"rupted, quite disregarding his last request.
"So I did to I did: but a man can take his own back "So I did. © I did, but a man can take his own back
again, can't he Well, when I saw them at the house, I con-
cuded it was ridiculous to give a boy like that such treasures, nd so - You spoke to him ?"
". Hem-that is, of course, man. Pshaw! You're too in.
uisitive for a jeweller: you ought to have been a lady's











evident to me that here was the boy's opportunity and that in
the interest of his pretty wife I thould make the beer of it.
With this intent, I played my flrst card with necessary bold
ness.
": Undoubtedly the case is very serious for you," paid I.




| what it will cost: stairn to a cab, w communicate with stone a letter, the worded as follows as follows |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |


ering only from an enervating fear, and white
the breakfast table before him.
said, "what is it, what does he say? Will he




 But thisis.
the ho e ret
we


 honeshmoon mant con coe
with he


 Watus and 1 talked freely, quite itgoring the old mant; and it
Wais not antil we were in the private room that the negotia-
tions began. tions began.
There $i$.

 never opened his lipes, but hit hissed the bridg at the door or
the hotel and color came apain to his cheer at the warmth of




 the looked at me ai



 ou paid my bill thav






 subsideda and came wit
ne duielty to
my room Where he trotomy obouma
oreight thousand pound






The Passing Years

 one bat one theer go
Into the beatitiful past.
As light as the breath of the thistledown


bheantifuli and as fair.
There are only a fee years left to love

13y hed husty ways of f ife.



## Three Things.

The following lines are from the atbum of a literary gentle
Three things to admire - Intellectual power, dignity and
kracefulunes.s.

 ful spiritit. things to avoid-Ideness, loquacity and flippant
 Thires thins to govern Temper tongue and conduct.

## Three Prisoners.

 rom the original painting by g. b. quadrone or companionship with man as the dog. This mplies a sensitiveness of nature and a social instinct which would tend to make the separation of a dog rom his master almost as painful as the separation of attached human friends. In rare instances it is nown that emotional suffering in a dog at the los of a master has been so great that the animal ha refused food, and so languished unto death. The ogs in our picture are not in so sad a case as stal from human society is, let us hope, but temporary Moreover, although in durance, they are not in solitary confinement. There is an old saying, that "misery loves company," and certainly companionship of any kind does ordinarily mitigate the pains of imprisonment ; yet, in the case of these dogs, it may be that each is so occupied with yearning for his master that he fails to enliven the gloom of his comrades. In any case, we can imagine how their ight, fiful slumbers are roused by every passingfootfall ; how their ears prick up to catch some sound hopeful of release and restoration. Just at present their attention is engaged by a visit from some sympathetic or curious youth, who is exciting them by a doubtful prospect of a repast. Each of

three Prisoners pathetic. It is interesting, by way of contrast, to come here direct from the old sod, they woul form a mental picture of them as they will doubt- at once imagine that they had discovered a seconc less appear when the master returns to set them of the great vitality of our grasses, we hav free; then their sorrow will be at once forgotten, as famous cows, lots of golden cream and gilt-edge they leap in wild excess of joy, covering him with kisses, and baking ina effort at speech.
Signor Quadrone evidently is a sympathetic in terpreter of canine nature, apriate sentiment.

## The Jolly Man.

Long life to the jolly man! Wherever he goes there flits a breeze or sparkles a sunbeam, or, behold, the refreshment of a shower that turns the withered commonplace of life green as an April meadow. I havo a ringing laugh. I have no that frowns ape with the inane giggling fools: shut downright, glorious humor, with quick following peal of laughter, is music to the soul. Give Ds pienty ever hear of a villian who was full of harmless fun' and enjoyed a good laugh ? Bad men may show their teeth like Cerker in a hateful smile or control their face like Quilp, but their merriment laughter of men as the call of a night owl is different from a bobolink's sunlit spray of morning melody.

THE SOCIAL CORNER


Dear Minnie May,-My little boy sprained his wrist last month, and having found the following
hints of great assistance in treating it, I send them or the Social Corner :-
When a person sprains himself, it is well, i ossible, to examine the injured part before it begins to swell, to see whether any bone is broken or displaced. Compare the joint with the corres
ponding one and see if it looks natural, or if an bone seems loose or out of place. If this is the case ake the patient to a doctor at once. If you are sure it is only a sprain, wring some flannel out o
water, as hot as can be borne, and wrap it round he part, covering with oiled silk or a dry bandage f there is much pain, wet a rag with laudanum nd put it next to the ski, belore putting on th has gone, then hold the joint twice a day under tream of cold water till it begins to be painful, bind it up with a common bandage, and do not us
it too soon. Do not allow either a sprained wrist or ankle to hang down, as that position increase the pain and swelling. If the ankle is hurt, th person ; and if it be the wrist, a sling should b aised. an SUSAN M. Dear Minnie May,--Life on a farm on St
Joseph Island will compare favorably with farm life elsewhere, for
believe we can enjoy ourselves herejo this snugl little Island as well as any other
farmers' wives and daughters in th world. But after all contentment is th mainstay of happi we not be content for we have rich
fertile lands, and fertile lands, and a will convince the most skeptical of th ment. Where will you see such smiling yeusd of grain, suck
beautiful field suc clover, filling the ai with its fragrant per
fume? And where can you find such as those on St. Joseph Island? Why, ou boys have been bus hauling and carrying props from the wood to prop up the heavil keepthem from breaking to pieces
from the immense from the immens Again, what othe Agace in the world
can produce such verdure of the sunn dales of England, an beautiful green Ol a Bridget shoul , and the farmers' wives and daughters o this Island know how to make it, too. Is it an wonder, then, that farm life should be so pleas
ant with all these natural advantages with which a bountiful Providence has blessed us. Ou
city friends suppose that our life is city friends suppose that our life is dull an
monotonous; perhaps it is to those who are dul monotonous; perhaps it is to those who are du calf or a grunting pig; but to those who know any thing of the care, comfort and beauty of a well-kep The very air we breathe is more pure and exhilar ating than that which our city friends are oblige what difference io we have make as long we can d it with ease, comfort and pleasure. Lock at the beautiful forests with which we are surrounded; there anything in worla more beautifur than maples assume every autumn. Tourists may spea of the sunny skies of Italy and the scenery Switzerland, but give me the grand old map tion of natural advantages and beautiful scenery our children are apt to love their homes Love home inspires loyalty to country, and with such
sentiments as these within the breast of our youth life on the farm will be both pleasant and profitable and the safety of our country will be doubly assured

## THE QUIET HOUR

"The Voice in the Twilight."
I was sitinin aioneni.ithe, tililish. With thoughts that were morbid and gloomy.







 Just then, ass thened the the grment,
That no rent should be left behind, My eve cauish an odd ilitle bungle
 That sometimes make



 Then straiphtway so tiow His neaning,
 To see what rentst must be mended,







 Which Woull tenderly guide and hold me
So my thoughts were nevermore gloomy,
My faith no longer is dim
,

"By the simple intention of doing all things, whether little or greati, the things become important to Him, even the smantost gold."
". The will, and not the feelings, is the real test of fatitrue humility lies in seeing one's own unworthiness and giving one's self up to God, never doubting that
for and in us.'

> What hoo shatt today provide
> $\begin{aligned} & \text { Let me as a anilid receive bevide. } \\ & \text { Whato } \\ & \text { Calmy to To Thy wisdom leav }\end{aligned}$

UNCLE TOMS DEPARTMENT
My De.ir Mephews asd Nieces,
$\sim$ Wrapped in resplendent robes of white,

Mhesenger of good cheer toearth

As this is the menth of December. we all look forward to the coming of the Yule-tide, and what a
thrill of pleasurableanticipation we experience even at the thought! Yes, dear old Christmas is coming again-coming with bands wered and cold, indeed,
wishers. He must be very aged wishers. He must be very
whose heart does not feel somewhat warmer, and
and beat a little faster, during this beautiful festive season ; for although Christmas may not bring to
all tangible gifts, yet it is in everyone's power to all tangible gifts, yet it is in everyones power to
add somewhat to the general happiness that should prevail at such a time, and this power of giving
pleasure to others is one of our greatest blessings. pleasure to others is one of our greatest blessings.
We may say of it what Shakespeare does of Meryy: "It blesseth him who gives and him who takes"; and those who have tried the experiment, say it
reall is "more blessed to give than to receive." really is "more blessed to give than to receive."
When ones's heart is brimming over with loving thoughts and kind wishes for dear ones, each one
striving to find utterance in words, it is hard to choose among so many. And thus it is that your
old Uncle (who thankfully possesses a heart, unold Uncle e who ithank age, by Timeses frosty touch),
chilled, even in its old and fiinds himself in a quandary to know what to say to his dear family. In fancy he sees you all, at differ
ent employments; but, peering beneath the surface ent employments; but, peering beneath che surface,
he finds one thought pervading all the busy minds and among the schoolboys and girls this thought finds expression during recreation, in these words
watted jubilantly on the air, by happy childish watted
voices
"Our teacher is tirod our lessons are done, And he hears, too, the lusty "hurrahs" of the boys and the hand-clapping of the little tots as the wants i X mas without frost and snow ? I otten feel sorry for children who live in countries where
there is no winter. What a lot of fun they wiss !
"The time of frost is the time for me.
when the vicie eeaps our with a chical ground:

And every brath is a new deenght the earth now don
And with reason, too. does her festal robes, for is is it not meet that $t$ whorese
should be spotlessly arrayed Shoulh we now celebrate? And should not all heart be purer and kindlier when angels are erthing the
air with the sweet strains, "Peace on earth, to men air with the
good will?
good-wat quaint, fairy-like fancies about the snow do wefind interwoven in both prose and poetry
Wee is an extract from one:
"Whenever wee on formy night,
The sururring sonow fakes





Do you wonder that I sooften use poet ical extracts
Dy in my letters to you poems as the flowers of language, and being a lover of flowers, I cull here and ghace, some of the pretty blossoms that spring up
thlong my pathway. It would he very selfish to
ald along my pathway. It would be very sh thate share
keep all their sweetess when could i more appropri-
with you all.
ately offer ou a little bouquet, than now, just in

preceding "blossoms," I will give this, which is quite apropos:
tery and whispering: and the popping out of The rolining ap of bundles and the tying of them tight,
 Dear, it sends: Jour heart a thumping just to think about
 So ring aloft, o jolly bells, upon the frosty air! And the following rhyme, which the children of taffordshire, England, repeat when hanging up

Christmas fay of Christmas day.
Iot me wish what wish 1 may ;

And with my litlle bouquet. Iomer to each of my
older readers this wish : M ay all your fondest hopes e rearized and and ma y ou have a merry, merry
hman and arosperous Now Year"; and to the ittle ones one bud more


Yes, filleovery stocking that liangs on the wall."

## Puzzles. <br>  

 - And now for aby ob of rish deasent. Lent.
${ }^{5}$ - - Sack to Manitoba, oder the C. P. R. R.

If you read aright my primals down,
You will have a aityo
renown
And if have herity or ronown go boating.


1 know of two Adas, wh' 've been abaent some tim


3-haly Square.

Answers to Nov. ist Puzzles.


HORACE N. CROSSLEY, Shorthorus, Shrophhires ano Benrshires SANDY BAY STOCK FARM, Importer and breeder of


 Muskota. IMPORTED CLYDESSALE STALLIONS. All four years of. Frein poes frice according to and the best brecing.
the times. NEIL SMITH,
 riverview farm,
 We now have for sale four superior Shorthorn Bulls of different ages, sired by such noted bulls as ifpond Cavalier, also and imported Reporter and Cavaifer
some extra good Cows and Heifers. some extra good Cows and Hile
J. \& A. SOMMERVILE.
 SHORTHORNS.
I have for gale tw
shorthorn



DEEP MILKING SHORTHORNS

 herd. Address
desboro, Ont.

JERSEY CATTLE, COTSWOLD SHEEP


 THE CANADIAN FRUIT GROWERS' JOURII dian horticulturist
 growing: a beanutiful colorea plate in eact Adressh, L. Woonverton,
GMIMSBY, on IT PAYSTO ADVERTIȘE

FARMER'S ADVOCATE
HOME MAGAZINE.

## 

Our Rings and Watch Premiums sent out last year have given such universal satisfaction that we have placed another large order with one of the leading Canadian ring manufacturers, and intend giving those who will secure us new subscribers the benefit of our close cash purchase. We guarantee the rings to be ten and fourteen karat gold, as represented. To ascertain the size of ring required, take a narrow piece of paper, draw it ging arly two years, and is well same to us, and we will guarantee a perfect fit. The Triumph Watch is an excellent pleased with it. We positively decline to give shoddy premiums, and ask as a favor those who secure any ors, prese prepaid, with the exception of Live Stock neighbors. We will sell any of these premiums at prices quoted. All articles will be sent by mail or express, charges prepaid, whers.

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1 Dozen Dessert-spoons. 7 new subscribers
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member they are all pure St. Iamberta, and member they are all pure St. Lamberta, an
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be don ?
 and paid for by a good harge tol, or shate, the
doneat lome In ine cases out of ten,
lome crushing wil prove the most satisac-


 horse power, at the rate of 85 buithels per hour
See Colemains advertivement in this issue. Refore attempting to put in another winter
with he ord crose-cut an it it well wo consider
the loss of time such a conres would involve the loss of time esuch a course would involve.
There are probably a lot of large trees blown
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econonize these hard times. We invite you



STOCK GOSSIP.
Re In writing to ad
 A correspondent of the Country Gentleman,
writing of the New York Horse Show, makes the following reference: Horse Show, Subilee Chief, the property or thr Riobert Beith, of Canada, an
Fainner in Chine highest honors at the World'

 is worth more by far than prize ribbons."
Mr. Frank Row, A von, in writingusunder dat

 won first for sow and four of her progene she ande
gix months has han fiel itter of pigs now
to wean.
He sead to wean. He still has a few young boars of eac
breed to spare that are fit for service als
quite a number of young Tamworths jus
ready to ship. Pairs can be supplied that ar quite a number or young Tamworths jus
ready to ship. Pairs can be suphlied that ar
not atin tit wil be notied that Mr Row
swcess sot aecs at the fall shows was most creditabl
which fact guarantees the quality of his stock In this issue will be found a new advertise.
ment from Ma. J. C. Snell. of
which he is offering riohly bred Jerseton in
wrom mehich he is offering riohly -bred Jerseys from
one to acar load With regard to swine Mr.
Snell writes us as follow $3:-$ The demand for Sell writes us as followi: -cine demand
Berkshire pigs has been and and
every month in the year, and especially so every month in the year, and especially so
the last two month. Our hipments in th
the have been to five of the Provinces a time have been to five of the Provinces an
seven of the States raning from Mass
Miss. and erery mail brings numerous lette
 rom all parts of canada and the in the. States,
shiresare rapidy gaining ground in the
and are more than holding their own in Can-
ada." W. H. Odell. Belmont, writes:-"My Tam-
worth pigs are doing well. My last week's worth pire are pigs to the following persons
Sales werr
Sow and boarto Johnathan Manning, Belmont Sow and boartoJohnathan Manning, Belmon
gow and boar too Heary Harknes, Belmont
Bow to W. Abot. Harrietsville sow toA.


 sows will farrow atoun first prize boar
ot the same litter as the form
two years at the last Toronto Exhibition." R. H. Harding, Thorndale, Ont.:-" Notwith
standing the fact that times are very dull with
der the farmer at te presentediye increasing, which
ter White hogs are steadily
zooes to show that the beed is adverising
Oseef as capable of producing good bacon hogs,
 and also greatly improving the common stock
when uned for crossing purposes. Saleo ot
DDorsets have oalso been very satisfoctory.
also wish to say that the buik of my inquiris

 Herron \& Dafoe, Avon:-" We are pleased to state through the columns of te se tate with us.
that business is in fairly active
and We make our prices w. We have over thirty
keep thing moving. Wry
Tamworth and Poland-China fall pigs now ready for shipping.
fine Tam worth boars nearly large enough for

 herd at either Putamam or Springfield Stations.
Only first-class stock shipped to order.". "،
 demand for werk in better condition. We have
herd neer wai in are now in
remodeled our pig build ind, and ane pigs to supply our numerous costerners. N , have sold our celebratin, Mo. Enterprise di
H. Gentr, of Sedal
Mo




 farmer, the son od ine Clyydesdale circles as ar importer and breeder riising much more profit able than that or horses His present stock have
ites are Poond-Chinas. His
proved their excellence in the late exhition
 the several young promise well for the future o this herd. There are at present a few youn advertisement in this issue. ${ }^{\text {an }}$, attention to $W$ B. Cockburn's change of advertisement in thot
sue. He writes:- I have secured whoul
He outht, one of the best strains ountry or ind, se verat onder
either in thit
hem imported. Ten cows and a few heifer were secured from David Morton \& Sons' fan ranging from one to five month' oid. My sales
of sheep lately have been quite encouraing
hate for the one imported shearling ram and two
 and one pure-bred Oxford ram lamb to Geor
 one ram thambe the head sold at the fairs, is
These, wist the toral left
very satisactory, and I still have several le very satisfactor
to dispose of."

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