

## EDITORIAL

Do not allow the potato vines to lie around afte the crop is dug. They should be burned off, and the fungus spores
your harve ting machinery under shelter y m ichine that is worth buying is worth taking care of. It is a needless waste to allow it to stand out in th

Farmers, and especially the younger members, who are not already able to detect the age of a horse by his mouth, should M.
series of articles by Dr. Mole, M. on dentition, which commenced in the September lst issue.

That was a very high compliment indeed paid Mr. Arthur Johnson, of Greenwood, Ont., in to award the $\$ 1,000$ premium or purse, put up by to award the $\$ 1,000$ premium or the breders, for the best ten animals of the beefing breels at the World's Fair bred and owned by the exhibitor.
Keep your harness in good repair. It is well to have a supply of rivets and buckles of assorted sizas, and some leather constantly on hand, ready for use at a moment's notice. A few and annoyinvested will save much time, money and for trifling repairs.
The Society for the Prevention of Cruelty $t$ Animals of New England are making strenuous efforts to suppress the practice of dehorning cows, on the grounds of inhumanity. well for them to study the report of the commission appointed by the Ontario Government, and to take warning by the mistakes of the sister society in this province?

The Scottish Farmer, in giving an account of ecent, bulletin issued in America, pays this com pliment: "When our agricultural experiment stations succeed in turning out work like this they is no reason why the United States and Canada should lead the Old Country in

In speaking of the Abundance plum, which is illustrated in the August issue of the Horticulturist, the Rural New Yorker has the following: "IT
Horticulturist considers it 'quite too early for any Horticulturist considers it 'quite too early for any
truitworthy statements to be made concerning its adaptability to the Canadian climate.' But it adaptability well in New York and Mich gan that succeeds so reason why it should not succeed in there is no reason. What we keep thinking of in connection with the Abundance is that, thoug every plum bears injury the pest has inflicted."
dropped from any injury the pand infallible rule It is impossible thich young stock should be bred size and a good thrifty condition being more important thau age. So that the amimals owned at an a progressive farmer will oftenger who does not earlier age than those of but in all cases it is best give them the samed of reasonably mature develop-
to await the period to await the pere breeding, if the best results are to be secured. Breeding at too young an age is such a drain upon the vitality that in many cases the animal never fully recovers from the breding Generally the dam suffers from too early breeding
more than the sire.
The farmers who are feeding steers for the
British market will do well to note the following British market will do well to note the following a vice given by the scottishormer farmer. This is
" Big bullocks do not now pay the far the doctime belickey have good grounds for the fat Brechin. and they have goon the heaviest and bingest, bullocks we were remember hating scht were placed second to a pair of com-
pith, closely coupled, well-fleshed crosses, and there is no doubt that the fathion is wholly in davor of this class. Ao gent he honors of his table for several days. The farmer who feeds big for several days.
bullocks loses on both ides. They consmme mor
food that the smatler ones, and in the second place food ther the smatre onfecit to dispose of to the
they are far mope diftece farmer is the medium
hut her. What pays the

## Clonmore, Record 2:21

 The magnificent standard-bredstallion Clonmore, No. 5288, record 2:21, whose cut appears on our front page, stands at the head of the stud of sta, Rock Farm, Danville, P.Mr. Foster, who devotes his whole time and energy to promoting the breeding of standard-bred horses, is noted in his neighborhood for doing anywonderfully sound judgment when he placed Clonmore at the head of his stud, for, recognizing the need of something else besides mere pedigree, he secured in Clonmore a horse who combines wht the most fashionable breeding grand individuatlywhile his record of $2: 21$, made during a hoty contested race, proves himaught, $2: 24$, a son of the famous Wedgewood, 2:19, having several other sons in the .20 list, while his dam, Hopeless, is by the famous Hềrmes, $2: 27 \frac{1}{2}$, sire of so many fast and game performers. In appearance Clonmore is a mahogany bay, standing almost sixteen hauly pro weighing 1,100 poums, shang a one does not meet with every day, and set off by a one does not meesular neck, set well into a pair o gracend sloping shoulders, and surmounted by an exquisitely moulded head, with an expressir countenance. In short, in our opinion Mr. Foste has secured in Clonmore a horse who, whe superb breeding and fast record proclaim himtion and command the admiration of all horsemen by his graceful carriage and exquisite proportions Besides Clonmore, Mr. Foster also owns the bay ta'lion Petruchio 17427, a very handsome thre ear-old, by Patron, 2:14, and out of a daughter o Shelby Chief. This colt is very spee
xpected next year to enter the 20 list.
xpected next year corm F are
The mares at Rock Farm are eight in number, too long to describe them separately, we may do so uccinctly by giving Mr. Foster's motto, which is First, Individuality ; Second, Breeding: Third, Mor individuality. The wisdom of this motto is show hy the success of the youngsters from Rock Far the Xermont Breeders's colts, a yearling and wo-year-old, carried off all the a wards in thei classes, repeating their trimph a few days later at Stanstead, P. Q., where they
money on the track in their classes.
The demand for Clommore's colts has been so The demand or great lately that Mr. Foster finds if almost possible to keep them till ven head of foals, yearling and present consists of elever-olds. And to one and any who ar interested in light horses, we would say: Be sure to pay a visit to Mr. Foster's establishment, which is easy of access, being within the limits of Danvile village, and barely ten mimererictor is only T. R. station, and where the proprictor is only too
glad to receive visitors and show then his favorites

This is a good time tolook after the farm fences They probably have had little attention since spring work hegan. it is much less tronble to make before they have once gone through them.
Intending visitors to the Worlds Fair should Without fail time their departure fiom Canada as to reach Chicago in the morning. Trains a the night will entail untold discomfort, amnovance and probably a good deal of extra expence
According to official reports of the world's whea
 ten years. This seems wer little when the whol pean countries have a lage deficit, which is mad up in other parts of the wordi. The estimater
 somewhat brisk competition and rise in price It is a fact that sheep past ming on the sea coat mioy companative immminy fom patantes. This with the foobl comered to the hernage by the ocea
 filled several dimes with foed oh wholh here is be a reme take of

## Agricultural Summer School for Teachers

 The Farmer's Advocate quite agrees with the President of the Ontario Agricultural College in saying that there are two things which the people ing is the main industry in Ontario. (2.) That whatever improves the condition of farmers and makes them more successful workers, benefits all classes of people. These are facts which no one will question, and our educational authorities, from the Minister of Education down, will do well to keep then in mind while making out our programme guidance of trustees and teachers in our Public Schools.The Hon. John Dryden, Minister of Agriculture, always anxious to advance the interests of the farmers, made up his mind a few months ago that the Ontario Agricultural College might possibly contribute in some measure
of our Public School teachers for a work which, it is thought, they could do with very great benefit in the rural schools of this province-a work which would tend to make agriculture a more profitable occupation, and do something towards inspiring rarmers' sons with a love for the simplicity, inde rendence and hear's lecision was a short sumpe cosult of Mr. in agriculture for teachers.
The course began on 3:d July, and continued till the 1st August. The number of teachers in attendance was thirty-four, seventeen male and seventeen female. It was certainly encouraging to find that ladies constituted one-half of the number, is hits sometmes the subject. Such is not the ake no interest the subjects embraced in the course were as flows: (1.) The typical animal for the production of tlesh. (2.) The form and kind of cow likely to be profitable dairy animal. (3.) The quality and elative values of the different cuts in a side of beef. 4.) The testing and handling of milk and cream, the making and mural chemistry. (6.) Geology ral and agricultural chemistry. (6.) Geomogy, principles of political economy.
The lectures were fully illustrated by practical xamples in the dairy, yards, fields and laboratories, and in two instances by excursions into the the country (to Elora and Rockwood) in charge of
Prof. Panton. The cost for the whole course, including board and lodging, was only twelve dollars. The work was done by President Mills, Prof. Panton, Jro. hhuttleworth, Profs. Shaw and Dean,
Villar. Esq., and William Houston, M. A.
The teachers were delighted with the course. They found the professors very courteous and attentive, their surroundings at te conently practical ingly pleasant, and beyond their expectations. The Minister of Agriculture and the staff of the ollege may be congratulated on the marked success of their venture on this new line. We have no doubt their work will ultimately be a great benefit to the country, and we are pleased to know hat similar
next.

Hints on Horse Feeding
Thé manner of feeding horses is a very impor rant matter, but one which is often sadly neglected. If a horse is reytured to do more work than has more food. This is a great mistake. Owing to the fatigue consequent to the increased exertion, the animal is less able to digest a large feed, are therefore shouid be fed less rather than morse large feed just before undergoing any severe strain; for, if a large feed be given immediately hefore active exercise, the bood to carry on thei by the digestive organs in order to carry on the digest ion is impaired and colic is the probable re sult. If a large feed be given immediately after artion prolonged exercise, the animal is weak and the blood is drawn upon largely for the re building of the muscular waste, and change of foo
organs suffer accordingly. A chat Organs suffer accordingly.
chould be made with caution hermate mate with caution. If a changer guantity of the new foodshould
he wiven for several days, and the amount grad
her he iven for several days, and the ammont grad
nilly increased. In no case should a change of
fondi Toul ind work be made at the same time. A goo
rulc is: Nower give a horse a full feed on a chang of


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The Ontario Agricultural College, Its Work and Prospects.
Owing to the disturbance and changes caused
y the "Findings" of the Royal Commission, some have been mora or less anxious about the effect pleased to learn that the prospects for a full attend ance on the 2nd October are all that could
desired. The province has confidence in the management; and, although there may be trouble occasionally, as in other colleges, the work of the institution goes on increasing in efficiency fron year to year. There is no doubt that the Ontari Agricultural College at this hour is one of the tinent. There is not another purely agricultural college anywhere to compare with it. The equipment in every department has been vastly improved within the last few years: and the opportunitie now offerenly broad and thoroughly practical educa tion are all that can be desired.
Some are apt to forget th
this institution is doing for the farmers, and ind rectly for other classes of people, throughout the province. It is not only educating young men for farm life and preparing some of them for prominen positions in connection with the agricuteral in of special work which is of great importance and should not be overlooked.
The large number of experiments conducted annually throughout the province by ex-student. and other farmers are under the controt and dire tion of Mr. Zavita, he college Experimentald he Farmers' Institutes all over Ontario have bee heretofore systematically mapped out by President Mills, and the college staff has done yeoman service in association with local talent at those gather ings. The travelling dairies are sent out from the college, and the duty of arranging for their meetpresident of the college. The dairy school, begun last winter, is now one of the most popular and useful departments of the institution. Already, we understand, as many as 120 have applied for the next session of this special course, to commence on the 15th January and cantinue till the 15th March. Contracts for the new bummer school for teachers, which began last summer, and was in every sense a marked success. The bulletins sent out from the college are useful through the practical information which they contain, and in stimulating mon systematic habits of inservation and work.
As we understand it, the design of the Government and the Provincial Minister of Agriculture is to make this school and farm serve the furmers of has been stated indicates that it is being kept abreast of the times.
For the coming term every department will be ane mane amount of training in this is only a secondary part of the business of the institution in our judgment. For the future the purpose of the Minister is,to make a more special feature of practical instruction in the stables and on the farm, making this go hand

## The Ontario Fat Stock Show

Theabove exhibition, tobeheld inguelphon Wel nesday and Thursday, December bth and ore nex promises to be the best winter show everconkuied
on this continent. It will be under the combined auspices of the Dommion Sheep A sriculture and Arts Association, and the Guelph Fat stock Club, All the foremost breeders of tha cattle classes are
to attend. The prizes for the to attend. The prizes for the catthe $\$ 1,750$ cathered in prizes in the sheep and swine department alone,
hesides valuable "specials." There is ample time after the Columbian and Canadian Exhibitions to mepare for the show at (iuelph, and our oreetler For prize lists and entry blanks. apply to Henry Jas. Russell, President Sheep Breeders' Isocociation,
Richnond Hill, Ont. J. S. Snell. President Swine 1reeders' Association, Edmonton, ont.. or F. W
Hodson, Secretary, Sheep and Swine BreederThe annual agricultural and live stock returns
sued by the Board of Igriculture indicate that III Great Britain farming is becoming less and lea

## The Montreal Exhibition

 The Third Annual Provincial Exhibition at Mon and continued during the whole of that week, was ardly up to its predecessors; a great many adrers In the first place, a mistake was made in placing the wet weather the harvest was not over, and nofarmer will leave his crop in the field to attend an exhibition, however good. The competition from Sherbrooke, Toronto and several local shows wa:
also very strong. Many of the best breeders of also very strong. May of the best bre in Mon treal, would not forsake their own show, and thei
asence weakened the stock exhibit considerably absence weakened the stock exhibit consideraby
Vany of our best known breeders were not to b seen at all, while others had sent their best stock ion week also lessened the attendance. Still, in spite of all drawbacks, the townspeople turned
in full force, and it is to be hoped that the Exhibition Company will
the balance sheet
Whe bance sheet.
We wuld heartily commend the firm stand which the directors have taken in not allowing any gambling concerns to operate on their grounds,
and hope that exhibitions further west will foland hope that exhibitions further west wed by any
low this good example and not be tempted low however large, to license such persons.
fee, hrear
A very interesting object lesson was the prac ical filling of a silo. Here the whele process cond tread-power ensilage cutter and elevating it into
the silo. the silo. The exhibit of butter, cheese and dairy utensils was good, and was made doubly interesting from
the fact that there was a regular working dairy where the separation of the cream from the mill and the manufacture of butter
performed hy different machines
The exlibibit in the Horticultural Hall was under the management of the Montreal Horticultural
Society and the Quebec Fruit Growers' Association, Sho deserve much credit for the tastefully arranged
exhibit of fruit, flowers, plants, etc. exhibit of fruit, flowers, plans
HORSES
The entries of horses w
ous as they were last year
In Hunters and Sacldle Horses, T. D. Buzzell \& ©o., Montreal, R. J. Coglin, Montreal, and Osborn carried off the largest number of prizes.
In Roadsters, Jas. McVey had a fine lot, among them the three-year-old Barnum, who carried off areminher of capital roadsters. W. H. Trainer, Rockburn, Que., won a medal with his two-yea
old filly Amy B., besides a number of firsts and seconds. The well-known firm of Graham Bros., of Claremont, expibited representatives from their
stud and ohained most of the honors in Hackneys, stud, and obtained most of the honors in feagull.
winning first in the stallion class with Seager Clydesidales.- In this class Graham Bros. also obtained the pick of the prizes, including the thre mare and two of her progeny. Other successful mare and wh this class were W. H.
exhibitors in
Dawes, Thos. Irving and Thos. Cairns.
There were not as many cattle ofn exhibition as
last year, though some of the breeds were out in larger numbers than ever before. The falling-of was in the beefing breeds.
Ayrshires. Some of the most noted Ayr--
shire herds being located in the vicinity of Montreal, they were out in larger numbers than any other breed. In an, there the largest e hibitors being : Jas. Drummond Mclachlan, Petite
showed a herd of 19 head; D.
 itors were: Jas. Cottinghan, Ormston; Tho
Irving Irving. Logan Farm: Je, Aad others. I). Mclachlan
McFallane, Petite Cote, and received medal for herd, and first tor bull two years
old. Jas. Drumnond received medal for bulf any alde, and first for bull three years old, bull calf, and
atow of any age. I. Johnston obtained first for bull one year old.
Cinernscys.-This breed was more mumerous
than at any previous exhibition. The two laryest hards were those owned by J. N. (ireenshields.
Danville, (Que., and W. H. \& ©. HCNish, Lyn.
 (ireenshields received medal for herdolf cow any
bull any age, and first prizes fer bull calt hate, and yearling
airst or heifer, first
several other prizes

new firm should be very encouraging to them
Sinith Bros. secured medal for best femate, first on year-old heifer and cow, and second on herd. J Fletcher obtained first on yearling bull and
year-old heifer, and a number of other prizes. There was a large increase in the number of registered "Canadian cattle" at this exhibition,
which indicates that they are growing in favor in Quebec, to which they seem peculiarly adapted. Shorthorns. This favorite breed was not up to
the usual standard in numbers. J. B. Watt secured the greater number of firsts, obtaining medal fo
herd and first for bull of any age. H. I. Elliot secured first for his two-year-old heifer and second for herd. R. R. Sangster, Lancaster, or oke \& Sons, Gilloways. In this class all the first and second prizes were taken by the veteran Galloway breeder万. Mccrae, Guelph. No Polled-Angus were shown. Herctorls. - F. A. Fleming secured the lion's
share of the prizes. Dawes © Co. were also suc hare of the prizes. Dawter.
Fat Cattle. A. Armstrong, Fergus, and Messrs.
Oke d Sons showed a number of good animals A. Armstrong

In sheep the exhibit was well up to the mark in
nost of the classes Gotsicolds. In this class the bulk of the prizes wned in Quebec, D. Turenne, LEErmite, Que., wa Leith A. Dennis second. John Kelly, Shak spare, won all the firsts. Quebec exhibitors wer M. Baxter Georgetown. For pen M. Baxter, Georgetown. For pen owned in Que-
bec, Robert Allen secured first, and J. $\&$ D. Pringle second.
Lincolns.-In Lincolns W. Wiver, Avonbank,
 prizes.
Merinos.-In
only exhibitors
nly exhibitors. Shropshires.-In Shrops the western breeders
met opposition from J. N. Greenshields. Danville met opposition from J. N. Greenshields, Danvile,
Que., who was very successful with his flock, winning, among other prizes, first on two-shear ram
hearling ram and ram lamb. Alf. Brown, shearling ram and fam lamb. Aif. Brown, Bethe
Ont., secured tirst for pen, and a number of other prizes.
O.rfords.-R. Gilmore \& Co., Huntington, Que. Humpshires.-John Kelly,
sole exhibitor in this breed.
Dorset Horns.-In this class the bulk of the R. H. Harding came in for a share of the honors.

There was a splendid show of swine, and though number were away at the Wordds Fair the exhibit
was larger than usual. H. George \& Sons, Crampton,
 Yorkshires and 10 Suffolks. As with the sheep, the Ontario breeders carried off the cream of the
prizes. The exception to this was in Improved Yorkshires, where nearly all the prizes went to
Quebec, J. N. Greenshields, Danville winning the larger number of prizes, including the herd prize.
J. G. Mair won first for boar under twelve months, and also for sow under one year. A. Tate, Mont-
real, secured first on sow under six months, and rea, secure herd.
second on her
Berkshires.-In this class, though there were
lat
large number shown from Quebec. $S$. Coxwort $h$, capturing all the pwes
sumfiolks. Here R. Horsey, Burnhamthorpe,
Ont.. and Jos. Featherstone, divided most of the eqizes bet ween them
 Ont. (u) Whate the prizel were principally taken by If. (ieorge, Cramptom, and R. H. Harding, A. Bell, of Amber, Ont., had a fine herd of
t welve Tamworths, which were the first that have


Canada's Horticultural Exhibit
Prof. L. H. Bailey, the well-known horticultural authority of Cornell University, and other American writers of note, have paid high tributes of praise to the display of Canadian vegetables at
the World's Fair. A general' idea of our exhibit may be ohtained from the accompanying illustration from the Canadian Horticulturist. It has certainly attracted a great deal of attention, as also have our fruits. People from all parts of the world have been astonished at the evidences of Canada's fertile soil and its adaptability in produc ing such an immense variety of foods for human supply and the support of animals. A particularly from the Dominion Experimental Stations. That from the Dominion Experimental Stations. That
immediate practical good is to be the result of the immediate practical good is to beethe result of the dicated by such letters as the following from the "other side of the world":-

Malvern College, Victoria, Australia
July 27, 1893.
. Awrfy, M. P. P., Commissioner for the Province of Ontario
Dear Sir:-I have read some reports of the

## Why is Wheat Cheap?

There is, perhaps, no one fact of more serious financial import in Canada to-day than that wheat but economize as he may the wheat grower finds that the cost of production is not to be reduced at will. Platform orators, with a flourish of the hand,
tell the farmer that he cannot control prices, and tell the farmer that he cannot control prices, and
that he must cut down the cost. This is all very fine, but it affords poor satisfaction to the farmer who sees the price per bushel being squeezed lower and lower, to keep pace with which his most desperate efforts at "reducing the cost of production" are entirely futile. Inevitably, there comes a day when the farmer on high-priced lands, or with ot her high-priced conditions, finds that he cannot sell Having realized this, he will then stop growing wheat, except as a stock food, and devote his attention to other lines of husbandry.
To satisfactorily answer the question "Why is Wheat Cheap?" is not easy, and to forecast prices is just as difficult, because of the many unknown factors that enter into the problem. A few years ago a Kansas statistician made an elathorate and
exhaustive study of this subject, by which he con-
matizes thesespeculators(gamblers) as no better than highway robbers. Millions of bushels are sold daily for future delivery by men who do not own a pound of wheat, nor do they expect to deliver, but to settle for the margin at a future date. This class of dealers simply gain or lose, according to the Such sales and purchases are fictitious, but they Such sales and purchases are
The United States crop of 1893 is probably all sold for future delvery already, he options being largely should put forth superhuman efforts to still batter down prices is a natural sequence. In the face of what is conceded to be a short crop the world over the patient American farmer is thus being robbed of some $\$ 150,000,000$, prices being some thirty pe cent. under the values of previous years. That he should resignedly sit down and submit without a murmur is in effect what he is told to do by those who say "grow wheat cheaper," the other end of will yet a waken and make it manifest that it is a vital part of "his business."


CANADA'S VEGETABLE EXHIBIT AT THE WORLD'S FAIR
excellent display of fruit shown at the exhibition by your province, and am anxious to obtain the names of the choicest kinds of plams, staw corthe with the addresses of reliable growers from whom I can purchase the plants, and who can be depended upon to pack carefully. Any information you can furnish me with on the mos ack fruit, together with the preserving and packing fruit, together with the part iculars of improved machinery fores and crates, ing strawberry andeatly appreciated by me. If the firms exhibiting would send me their printed pamphlets, giving varieties and prices, it would greatly assist me. Please excuse my troubling you so much, but my great desire is to obtain the latest and best information on the above subjects, in which your province appears to occupy such an honorable position an of a reply,
anxiously the faver of a reply,
I have the home toman, sir,

Kindly addres reply, care of $\because$ T. Alexamder Esy.. Centre Ram, Last Brightom, Vietmia, Au-
finced himself and many other people that consumption had overtaken production. high prices (over $\$ 1$ per bushel for wheat) was about oo set in, with good times for the farmer! Instead of going up prices have steaddy tumbled down, despite all his optomistic calculations. His. figures lied, even though he lad faith enough in them to
hold his own immense crop of wheat and corn over hold his own immense crop of wheat and corn over Ontario and other parts of Eastern Camada has lately been dismayed at ". sixty-cent wheat,"" and at buyer the other day cheered the Northwestern farmer by announcing that No. 1 Hard would open in Brandon, Man., at forty-five cents. For the general (rop that would make the outlook ruinous. A good many shrewd men have come to the conclusion that the natural law of "supply and
demand" has not all to do with this business. The cmand has not all to do with thisbusmess. The modest return that the wheat grower should get is whittled down smaller and smaller by endless commissionsexombitant freight rates and the like. Grain gambling, for that is what it is and nothing else
on the so-called Boards of Thalle in (hicago and Nen the so-called Boards of trate in fromge and


Shrinkage of Stored Grain.
In these days of cheap wheat farmers are at a oss to decide whether to sell or hold their stock for a raise. While the present prices canhot be expected to fall much lower, we need not look for what is considered a remunerative figure for this cereal for some time. Before deciding to hold wheat
for a chance of a raise, it would be well to consider the certain loss by so doing.
According to reliable experiments which have heen conducted, we learn the following facts:-In August, of a previous year, twenty varieties of wheat were stored in small boxes, the two sides and end of which were made of half-inch pine, thoroughly seatsoned, the bottom of window-screen wire, and
the top of glass. The full boxes were numbered, the top of glass. The full boxes were numbered,
weighed, and buried for a year in a bin of wheat, after which they were left in one corner of the bin without any covering until the end of the third year, when it was found that six, or nearly one third of the twenty boxes, were badly injured by insects. The other fourteen boxes were weighed
in lurusit and showed a loss in weight from three in Angust. and showed a loss in weight from three
 one-third per cent. The
int the Hungarian whei
some other variet ies.

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PRIZE ESSAYS
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## STOCK.

The Live Stock Show at Chicago The live stock show at Chicago is over. It was
ne of the best in all departments ever seen on this one of the best in all departments ever seen onthis continent. In the horse department the animals of unusual merit were on the grounds. The Shire class was small, but some fine animals were shown. The Coachers were a very numerous class. French, German and English breeds were well represented The Hackneys were not so plentiful, but the quality of many of those shown was, excellent. The Percherons were out in large numbers. The Suffol Punch breeders showed a number ored. The Kentucky saddle horses were the attraction of the horse ing to many visitors. Amony them were superbly trained animals, many of which were of good quality-possessing useful qualities, and were of handsome appearance. the show of Norgam horse was disappointing. This once useful, handsome has been almost ruined as a class, if we are to judge by those shown at Chicago. The Russian Government made a display of horses, among which were some fine animals; all were light, some tiotters, others used for saddle purposes or the race course.
The ponies were a large class, but few really fine The ponies were a large class, but ferv really fine animals were shown; many were rery sman, In type not larger than yearling Cotswold sheep. others were Welsh in appearance. The decisions of the judge in this class was often astray, several very bad blunders were made.
Cattle were out in large numbers. The quality of the animals was very even. Shorthorns were a fair class. An absence of real y prime females in the aged sections was noticeable. There the heifers and heifer calves-the latter particularly were a good class. In bulls the breed appeared at its best. Herefords were a fine class, thick-fleshed and finely finished. The white faces never appeared to hetter advantage. The Dodies (Angus) were likewise very good. The best aged females on the ground were to be found here. The heifers a bull calf of unusual merit was also shown. The dairy breeds were out in ${ }^{\text {f }}$ full force. The Holsteins were a good class; some remarkable cows were shown. The Ayrshires were very good; by far the finest animals came irom Canada. The American Ayrshires are very much inferior to those shown by Canadians. Jerseys were a wonderfully good class, certainly
the best ever seen in America, if not in the world. the best ever seen in America, in the dairy barn was The appearance oven to the initiated. Large, handsome, smooth beasts, hearty and vigorous, they were a sight to be remembered and appreciated. The Guernseys were not a good class. The Brown
Swiss cows were a novelty to many : they some what resemble the Jerseys in color, but are very strong in the bone, short in the legs, and thicker
fleshed. feshed. They are a peccurers claim much. The Belted Dutch are also a novelty, with nothing to recommend them over
the Holsteins, which they resemble somewhat in form and color. but are not as vigorous looking.

Canadian Stock at the Worlds

> Ten or twelve thousand people had ia chance on Wednesday, September fith, to form an idea of the Wed resources of the Province of Ontario as a horse and
cattle breeding-country, when our stables were emptied, and all the prize-winners and those which emptied, and prizes though that was no disgrace in
did not get
the distinguished company in which they have found thenselves for the past three weeks paraded
in the live stock pavilion. There were the massive In the live stock parefords, with yreat promise of
Shorthorns and Herefore
steaks and roasts in the future: the curly Galloway steaks and roasts in the future the that hides glistening in
and Polled-Angus, thir black and Polled-Angus, their tack hides, ghisteming in
the sunlight: the rich redl Devons, he. pie-lall
Holsteins, and the sleek litle Dyrshires decked out Woistems, many colored hadges of victory. And the horses the proud hightert in dery movement:
showing their pride of bith
the trim, neat Hackneys, ass winners anong the the trim, neat Hackneys, easy winners anmong her
pick of the continent and contrasted with them
 of streength and endurance. How theypranced and
of arveted in the ring, and how they were cheered curveted in the ring, anmirers, It was a sight long
each clask having its admiter
to he remembered, and no gntario man but folt his



tury ago-the Royal Cattle Show in England in
such a year, the acting of the Elder Booth. or the singing of Jenny Lind, it may be, but individuals of such a kidney had no solid ground to stand upon days. Col. J. H. Pickrell, of Chicago, one of the best known old-time Shorthorn men on the contijudge in that class, is authority for the statement that never in any country has such an assemblage of horses and cattle been gotten together, nor was
it ever attempted on the same scale. Those who were there say that the present exhibition of Shorthorns is fully equal, if it does not surpass, that at
the Royal Agricultural at Warwick, England, last The hero of this show was undoubtedly Young Abbottsburn, , 11,06, 3,000 lls. in weight, and the American prize ring. Three years ago he was purchased by Col. Noberley, of Kentucky, from he has downed everything in sight, rounding off his career by being declared the best on the con-
inen linent. It was hardly expected that he would so
ong remain the victor, but that he has proves how grand an animal he is. by Arthur Johnston, (ireenwood, Ontario, a son of old Indian Chief, and also owned yy Col. Moberley. He was awarded third prize. while
fourth hoors went to Earl Fane VIII., 107, i65,
bred by John Hope, of Bow Park. Ontario, and owned by col. H. 'F. Brown, of Minnesota. To follow than I can afford, but after a careful scrutiny space the herd book, 1 find that Ontario blood is strong
of the in many of the other prize-winners now in American
herds. When we came to the younger cattle, our herds. When we came to the younger cattle, our established heyond a doubt that Ontario is still the nursery for sho beef bree Leaving the beef breeds, we find first the black-
and-white Hollanders, Holstein-Friesians, as they are generally known. Though not large in numhers, the contingent was select and of high class.
Ontario was represented by one herd only-that of J. C. McNiven \& Son, Winona, who had no reason to feel ashamed of the position taken among their
competitors. Their aged bull was a picture, with competitors. Their aged bull was a picture, with
his soft hide, silky hair and rich quality and color, his sont ranked a good second. Who that has read Blackmore and Kingsley
does not have ever present before him the green does not have ever present in his heart for the rich dark-red cattle which take their name rom the loveliest comnty in all England
large of frame, sleek of hide, soft of eve, and just large of frame, sleek of hide, sot of eye, and just
the picture of an honest cow that can fill a big pail with milk while she lives, and is a good mark for
the butcher when his time comes. the butcher when his time comes. Cniform in
color and size, the Devon ring was particularly color and size, the honor of our province was kept aup by W.J. Rudd, of Eden Mills, who was a freqent prize it is hard to not a kind word for the Ayrshires. Neat, clean lindly disposed, grand pail fillest and fair beefers,
especially with a Shorthorn cross. it is no wonder espec have so many admirers. And in this class was where we distanced all comers, leaving but two or three money prizes to breeders outside of
Canada-grander herds than those of Stewart, of Canada - grander herleton Place, Guy, of Oshawa Menie, Yimill, of Carleton Pace, Gity, of Oshawa,
and Smith, of Fairfield Plains, have never been led into the arena, and right well did they fulfil the
expectations of their friends, The Quebec Ayrexpectations or well up in the competition Ay In the Jersey class Ontario was represented only
by one bull, which, however, did not rank high among ning now to horses. The largest which Ontario breeders were interested was the Clydes, in which some twenty exhibitors came for
ward, and most of them were prize takers, though wardly so fop in the list as their friends ex pected. But it was a grand show altogether, in number and quality, and one which is not likely som to be repeated. In Shires lut one Ontary
man, Mr. John Carr, of Trout River, came to the front, with a well-shaped stallion, War Boy's thown, by Joseph Beck, Thorndale, and Boyd Mos The high-stepping Hackneys gentemen of th norse $h$ in y.ata mand included some animals of high rank. Not so large in size, but of grand fashion of hody, strong in rib, coupling and quarter, with neck, a good Hackney is the kind of horse every-
boody admires, and they showed it very plainly when Mr. Ruhert Beish show (Bowanville) Suhilee
(hicf was pout through his paces at the Chicf was pot hrough his paces at the end of a
halter. How his hack hide did shine and his four Whit "fert did twinkle, and he seemed toappreciat
the sal of of applanse from fair hands which grected himon overy appearance. Anotherof Mr. $=4=x^{2}={ }^{2}$ -2":





 stood in in ring, that needs only ${ }^{\text {and }}$ olitie mor
 in wiming five prizes with his thiree. American



 second best prize of the show sobo in iolod cash
Right tat the head stood $J . ~$
$W$


 herd from their position To the hundreas of




 ompentition
Witht this week close the cattle and horse ex

 well represestrted.
Among the visitior of of not during the presen
 It Lake Superion Theireurn from the region north show as as whole, and expressed bimpelf sish tore

 barns and the etsock pavilion.
dian stock, and and as manoon of the the ouneren of of the Canants as onal get away, were astertayinod oth at atconants as ocould
 hour or two very pleasantly, fighting the bathans
over again, and congratulating each other on their

Chatty Stock Letter from the States Tithen live stock trade is is in much healthiter con-

 recover. "The poople must, eats," they may do,
without finery and bric.abrac in"
thard
times. but they must have meat, and the meat trade
being ona $a$ cosh basis, is one of the best. $P$ rofts










 maturite is the aim of progressive breeders and There is increased activity among the Chicags
patking houses.
They are mate making good mones,




 is quite $a$ demand for cattle to put on slop reed.
 wants over 1,000 to send to TIdiana to put ons olop,



The range cattle are still poor in quality, as
they were thin in the spring. Winter prospects
for for range are bright; Maj. W. A. Towers, the wellknown range cattle man, reports the range from
New Mexico north as being generally good, with
the exception of the exception of Wyoming.
The World's Fair live
one, though many thought not as good as a it ough to have been. There is good reason to believe that a Christmas fat stock show will be held in the new
pavilion at the stock yards in December. The sheep market yards in Decembe condition. A lot of 67-1b. sheep sold to an Illinoi feeder at $\$ 1.00$ per 100 lbs It looks as if the
feeder would not be taking many chances of loss a 67 cts. apiece. Western range sheep are selling at
$\$ 2.0003 .30$ per 100 lbs., and native muttons at $\$ 2.50$ @4.00, with lambs at $\$ 3.00 @ 5.50$. The sheep men "clean up." The result ought to be satisfactor to those who remain in the business.
Some eight cars of cattle, all the way from the
avere of Wathington, were lately marketed at $\$ 3$,

## Jerseys for the Dairy.

With the continual decline in the prices of al
ereals, more farmers are gradually awakening the fact that some other field of industry must be opened if they would lift the mortgage from their
homes, or enjoy any of the comforts and luxuries which, wealth alone can buy.
Many of these
with their of thain-raising, dabbled in dars have, along with their grain-raising, dabbled in dairying; but
from lack of care and an understanding of the laws
of inbreeding, their stock has degenerated until the of inbreeding, their stock has degenerated until the
profits, if profits they may be called, when the cost profits, if profits they may be called, when the cos
of keeping is considered, amount to the few neces sities of the table.
The fact that good butter always commands paper, has led many people to enquire more clocely
nto the nature and possibilities of this particula branch of dairying. That there must be a change in the grade of their stock most farmers are con-
vinced, and to those beginners who cannot afford hhe time or means to prove which breed of cattle is
best adapted to their needs the experience of open eyed, truthful men is invaluable. Antong the many breeds whose merits have been discussed and
advocated by leading dairymen are the Jerseys These cattle, natives of the Channel Island of tha the progressive American, who saw in them the
possibilities of a grander sphere of usefulness than possibinties of a grander sphere of usefulness than
that of mere ornamentation. That they are parti-
cularly well fitted for dairy purposes is shown by he quality of their milk and the readiness with
which they convert their food into butterfat It has long been conceded by experienced dairymen-
and this is indeed the Jerseys' strong point-that and this is indeed the Jerseys' strong point-that
they produce more butter from a given amount of they produce more butter from a given amount of
proper food than any other breed and since economy is one of the roads to wealth, the man who
feeds a dollar's worth of food to a Jersey cow and receives in return two dollars for his labor is nearer
his goal than the ofttimes is not repaid for the food they eat, to say
nothing of his labor. Then to change these nothing of his labor. Then to change these unpro-
fitable animals, which yield three or four pounds of
butter a week, for those requirg butter a week, for those requiring no more food or
care, and which produce eight or nine pounds a week, is a question
immediate attention
Throughout the United States proves Jersey cattle not restricted to any particular climate the their rapid increase proves that they are not more sus-
ceptible to disease than any other breed. apponsumers of milk in cities are more quick to and ordinary milk than we would suppose, and they
would be willing to pay a better price if they bould be willing to pay a better price if they could of Jersey products could readily (reate a demand
for his articles is unguestionable. Why, then should he not? Now that the patrons of many
cheese-factories are being paid according to amount of fat found in their milk, there is an added
reason why he should reason why he should not hesitate to improve h
stock. Many people will tell yout that the high r
cords made by some Jersey cows are exceptions cords made by some Jersey cows are exceptions
but it is not these special cases, which you, from
lack of means, perhaps lack of means, perhaps cannot afford to initate bot
to the record of the general Jersey we would have you turn for convincing ${ }^{\text {prof that she might be }}$ your home's salvation. $1 t$ is a mistake among
your amateur dairymen that they seek to combine thi
qualities of a beef and butier producer. This in-
variably variably resultsin a beef producer: but if he persin
in his object, let him not tanper with the Jersey
whose mission is strictly that of butter-making There is much for the beginner to learn concern-
ing the proper food and care of the Jersey, and
there is no better means than through the colyens of some good dairy paper. rich with the experience
and counsel of men who have made these cattle a Their beauty, their gentlenses. and. above all,
the superiorquality of theirmulk, jus ify them in the
 plative buyer. To possess a Jersey is to be inspired
to nobleness. and to cars for one is to be educated
ongentleness and an appreciation of berats.

## Isaleigh Grange Farm

In our present number we give a full-page illus theproperty of the well-kñown Q.C., Mr.J. N. P. Q. shields, of Montreal. This farm, which was placed under the management of Mr. J. Y. Ormsby just welve months ago, is already making rapid strides tock sent out from the farm, from what, and the is becoming more popular every what we learn, breeders of the province, and, indted, not only in the Province of Quebec, for in a recent letter Mr Ormsby writes us that their sales in the past six nonths have extended from Nova Scotia to the far The home farm, which comprises a
is devoted to dairy cattle, principally Guernsers, Shropshire sheep, and Improved Large Yorkshire hogs, while on the two outlying farms, which conflock of mutton sheep are kept, in addition us
which a number of cattle are fed off the grass Which a number of cattle are fed off the grass. gree sook, and as we write this we learn, by the last reports from Montreal and Sherbrooke, that
the Isaleigh Grange herd of Guernseys have added the silver medal at Montreal, and the diploma at Sherbrooke, for the best Guernsey herd, Adven are winning the silver medal for the bontreal herd, age. This grand young bull, whose cut appears in ur engraving, has just come out of quarantine, having left a record of no less than fourteen first and second prizes behind him in England and shows the characteristic dairy points of the bred in a very marked degree, being pronounced by the
well-known expert, Mr. F. S. Peer, of New York State, the judge at Montreal, one of the best Guernseys he has ever seen. Besides Adventurer,
the welli-known bull Ontario's Pride 1929, whose cut also appears in our engraving, is in use at
Isaleigh Grange, and is the sire of the 3rd prize calf at the Columbian Exposition, which was bred at Isaleigh Grange, his dam, Eliza C. 2nd, by Sir
George, being still in the herd. Ontario's Pride ear at Montreal On ltawa prize andsweepstak Sherbrooke. The herd of Improved Large Yorkshires, of which breed and breeder, is hecaded by the two imported boars
Holywell Miner 2687 and Holywell Prince 2689 the former being the champion boar last year at the the herd that has just won the sweepstakes in Montreal, both boars winning 1st place in their five, are a beautifully even lot. Among them we especially noticed a beautiful young sow from the England ; this sow, we were told, won lst at the Royal, and 1st in her elass and sweepstakes against spring she raised her first litter of twelve pigs, by are being Prince, and the three young sows that tainly a most beautiful lot. Owing to an unwill not be exhibited at Chicago, but will compert at Toronto, London and Ottawa, where large
exhibits will be made, and orders will be taken for young pigs, of which a good supply is expected Last, but far from least, come the Shropshires a greater treat than a stroll through the pastures, where the bonny black faces are feeding, up to
their bodies in clover aftermath. The sires in use last fall were from the flocks of Messrs. R. Brow
and Geo. Thompson, the two principally used hav ing won, respectively, 1st at the Royal as a lamb,
and R. No. at the S. \& W. M. as a shearling, while this year there has been imported a capital shear-
ling ram from the flock of Mr. Wm. Thomas ; thi ram won 1st at Montreal, and is sired by that
famous old sheep "Blue Blood" famous old sheep " Blue Blood.
The ewes, which are a very
old-fashioned kind, are from such breeders a Messrs. Brown, R. Thomas, Wm. Thomas, Meares as may be expected from such strains of bood, the
lamls are exceptionally well wooled and of the ruest Shropshire type.
It would take too long here to give a detailed
description of the buildings, which are very extensive. We might mention, however, that all the
machinery is run by a twenty-five horse-power engine, the engine house being placed at the end ground some distance from the boiler, which is placed in one end of the pige pen, the surplus
steam being carried round the pen in two pipes chus rendering it almost entirely frost-proof. Ad
joining the engine house is the dairy milk is separated daily with a De Laval separator,
the skim milk being carried by a pipe underground O the piggery it being the intention to develop
his hranch of the farm until at least fifty or sixty hrs hanch of the farm until at least fifty or sixty
lreeding sows are kept, as the demand for pigs
rome Isaleigh Grange herd is every day in-
creasing


## Studs, Herds and Flocks

riverview farm.
This farm, owned by Mr. H. I. Elliott, is beauti fully situated about a mile and a-half from the
villageo on Danvile, on the banks of the Niocolet River
which also furnishes power for which also furnishes power for Mr. Elliott's saw
mills. This gentleman is a comparatively new breeder, but has started on right lines, having known breeder as Mr. Atrthur Johno stoch, of Gereen
wood. These animals are all of the Cruickshank and Campbell breeding, and a number belong $t$ to visit any of the larger exhibitions, but has been very successful at all the shows in the Eastern
Townships, such as Richmond and Sherbrooke Townships such as Richmond and Sherbrooke.
The animals in the herd are either imported or
from imported sires and dams. It is headed by the from imported sires and dares. It it is headeded by the
fimported bull King James, bred by representative of the late Mr. S. Compbell, Kinellar, Scotland This bull won first prize as calf at the Royal North animaw is Mimosa, by Sotocland, Another bood bred by Geo.
Bruce, Heatherwick, Scotland, This cow is a Bruce, Heatherwick, Scotland, This cow is a
beautiful roan, and is a capitall milker. She won
the second prize at the the second prize at the Ropyal Norkhern She won
Scotland. She has a heifer calf got by Sittytof Scotland. She has a heifer calf got by Sittyton
Yet. Another good show animal is an imported Yearling hetifer, Roosella, also bred by Geo. Bruce,
Heathe wite Others of Gloncester, got by Indian Chief, now at the head of the Greenwood herd, one of the best breeding buloucester, imported, she by Dunblane. Clara is a
Gity roan of the celebrated DClaret tribe; she is also by
Indian Chief, and from imported Clara. Lovely
Inia Belle is a very promising heifer, got by Lowland
Chief, son of Indian Ohief; ; dam imported Lovely, bred by A. Cruicksshanks. We also onticed a a pair
of bull calves, one by Indian Chief out of Nompareil Countess, the ther by Shimcoe Chief, son of
Indian Chief. Mr. Elliott has also added to his pure-bred stock business the breeding of Yorkshire
swine, having obtained his first animals from the Isaleigh Grange herd.
with a herd of Shorthorns, having bought hanm ber from S. Pearson, of Meadow vale, and Arthur Johnston, of Green wood, among others Wimple
of Trafalgar, whose illustration appeared in a issue of this paper.
About two miles above Sherbrooke, further up
the valley of the St. Francis, is the farm of $W$. H . Hale, who is already well-known ta our readers. R bbertson said any man is a fool to do-"selling hay," but in this case Mr. Hale thinks he is parsu-
ing w wise course, as much of his land is hilly and
hard to work ing a wise course, as much of his land is hilly and
hard to worke can sell his hay the year round
for a mood price and get all the manure he wants for a good price, and get all the manure he wants
in the town. Ho believes that to be successful a farmer must specialize in in same department, one asparagus bed older than himself, it having
oneen hanter in
heen been planted in 1832, and is still giving good crops.
He ships the asparagus to Montreal. some American citios. He sets the plants three by
four feet apart. He is trying to weed out the female plants, as they exhaust themselves bearing
seed, and will not give either as early vo seal seed, and will not give either as early or as strong
shoots as the male plant. Judging from the plots examined, this experiment will be very successful.
Besides this, he grows a considerable quantity of Besides this, ee grows a considerabele quantity of
small fruits and garden truek and flowers which small fruits and garden truck and flowers, which
he ships to Montreal. He has also been carrying ho extensive experiments with strawberries, grasses and cloverp, an account of which our readers will shortly have the pleasure of reading, as he
has promised to sen un a full report of this work.
While in Sherbrooke we visisted the training While in Sherbrooke, we visited the trawining arge number of horses in training, among which
are Boston Globe, chestnut stallion, rec.
 brother to Bessie P.), rec. 2.29., by Lumps, 2.21.
They als ${ }^{\text {have }}$ have number of colts, two and three They also have a number of colts, , wo and three
years old, in training, by Boosto Globe: can ell
show from a three-minute to 240 gait one a threeyears oro, a three-minnte to 2 to gait one, a three
show from a
year-old pacer, can show halves at a 2.25 clip. Boston Globe is now being trained, and is showing
fast; should trot in 2.20 this fall. Lord Fd Ferton is fast; should trot in 2.20 this fall. Lord Edgerton is
is also being trained, and should trot in 2.30 this fall. elmwood stock parm.
At Lennoxville, few miles farther east of
Sherbrome, we find the breeding establishment rotting horses, gentleman's roadsters and Clydes dales. Lemnoxville is prettily situated at the
junction of the Missawippi and the St. Francis
ainer the town, and comprises one hundred and fifty acres on the west bank of the Missawippi. At the
head of the stud stands Dodger, record 2.24 over h half-mile track, sire Arminius, he by Ravellar.
dam City Girl. He began as at sreen horse si years old, started in fifteen races and won ten firsts,
three seconds, and and third, and a fourthen and for
the first time in history brought the Vermont the first time in history robught the Yermont


$\left\lvert\, \begin{aligned} & \text { Dodger. He is a bay stallion with black points, } \\ & \text { foaled June 1891, sired by Boston Globe he by Red }\end{aligned}\right.$ Wilkes ; dam City Girl. He is well broken, a sure trotter, and very speedy. Otthers ane Dolly
Varden, a bay mare, a full sister. There are Yarden, a bay mare, a full sister. There are
ifteen others, all standard-bred in fashionable lines, and from such sires as Boston Globe, Arminius and Red Mac. Sir Heector heads the Clydes-
dale stud. He was bred by John Shuter; sire
dape Fairwin, dam Jessie, late Reggie. Others are
Dolly Bee, by Balmoral Margrette, A four-year-
old bay filly by Prince of Hallin, Sally Dawson, old bay filly by Prince of Hallin, Sally Dawson,
and a number of others. Breeders from the west
who are in search of well-bred horse tosh shost who are in search of well-bred horse flesh should
take a trip through the eastern
and wert feol tanada, sure they wiil be well repaid for their and we f
trouble.
glenburn stock farm.
About four and a-half miles srom Lennoxville Berkshires. The foundation of his herd of Shorthorns, was obtained from such breeders as Green
Bros., Innerkip, J. C. Sneli, Edmonton, and John Miller. His stock buil strathroy, out of a Strathallan cow, was a prize-winner at Toronto in the calf class, and has proved himself an excellent
stock getter. Duchess of Halton 5 th, got by Redpath Prince, he by the Scottish imported bul
Prin Mrice Cannyman, of noted prize-winning stock.
M. Race does not believe in over-feeding his animals for the sake of show, but rather in keeping
them in good breeding condition. In swine Mr Racey in good breeding condition. In swine Mr .
Raiming to produce a pig suitable for the bacon market, and thinks the bibst results can be obtained from breeding Berkshires. He finds the
demand for his Berkshires so great that he can
with difficult kew emand for his Berkshires
with difficulty keep up to it.
About a mile from Cookshire is the farm of Col.
J. H. Taylor, where is kept a small but select herd J. H. Taylor, w
J. F. Learned, of the same place, is breeding Cleveland Bays and Shorthorns. The Shorthorn foundation stock came from Gren Bros., Innerkip.
The Cookshire agricuttural buildings and grounds The cookshire agricultura.
The stud is owned by Senator M. H. Cochrane, located on Hillhurst Farm, two miles from Hill',
hurst Station and four from Compton. This stud is believed to be the oldest in Canada or the
United States. He has lately made a fresh importation of eight animals, comprising the yearlin filly Camie, by Danegelt, out of Lady Millington, by Star of the East, bred by Mr. Robert Pringle,
of Rillington, which woon second as a foal at Melbourne, and first at Shipworth. Vina, a brown
mare, half-sister to the above, got by Wildfire, was
first first at Melbourne in the three- year old class, win-
ner of ner of first at Poclington, and highly commended ing, oot by Canningman, dam by Lord Derby yead
Another is Miss Baker a four-year-old brown in color, by Ruby, son of Confessor.' She was highly commended at London last year. She is in foal to Agility. Thus it will be seen that this
importation includes the best that could be tained in the Old Land, and will add fresh laurels to the crown of the already celebrated Hillhurs
ompton kennels
Mr. F. S. Wetherald, proprietor of the Orienta stock, and has a small but select herd of Jerseys been quite successful atered Shropshires, and has shows. He also is a great lover of dogs, and has a
number of pure-bred Scotch and Irish terriers and number of pure-hred
His first werer, Capelton, is breeding Shropshires, of tirst were obtained principally from the flock
of John Dryden and Robert Miller.

This fine funcom stock farm
by W. P. McClary, ond is is situated in the rich valley It Coaticooke, about a mile from Compton village
about two hecially good grazing and hay farm about two hundred and fifty acres being in pasture Mr. Mcclary does a large amount of grazing, and
shins direct to the Old Gountry. Part of the best
land is overflowed amnually by the river gives enormous crops of hay, and though he has ouly lately taken up the breeding of pure-bred
stock he has been very successful at the different local shows. The stock; which was obtained principally from Messsis. Green Bros. Thinerkip, is headed
pal the stock buli Duke of Hilton, got by Prince
Hazelwool bred by W. S. Camphell, Brant forde In thy the field
were Venetia zud, got hy Earl of Mar , dam (ild





He has splendid accommodation for his stock, and
one stable, which is called the school stable space one hundred and fifty-two feet thas feet, which is used as a riding school and place fo exercising horses. In this stable were his pair of
Coach horses, one of which is a half-sister to the noted jumper. He has four teleph fara, so that while werking in his ophce hes on the
in direct communication with every departument of in direct co
the farm.
At the time of our visit the cattle were all outa pasture, with the exception of the sevent that outa were
destined for Chicago, headed by Mr. Smith reuowned medal bull of Canada, Young Tushing
ham 2nd ( 32302 , ever shown in Canada He was sot by Tushias whe dam, Formosa. Lady Tushinghay 3 Ird, got by
Lord Tushingham, and out of Lady Lord Tushingham, and out of Lady Wintercoti
took first at Montreal and second at Ton Ottawa, is a three year-old, and has just received fourth premium at Chicago, spot srd is ist recoevear
old, sired by Anxiety, out of Sylv t old, sired by Anxiety, out of Sylva. This heyear
was also a prize winner last fall, and obtained premium at Chicago. The others which were to Chicago were two yearling heifers, Cherry 2 sent and Josephine, and a cow, Amy 3rd., These were alw successiul in winning premiums. This herd o
twenty-nine pure-bred Herefords are all from prize winners, and the most desirable blood of Horace Anxiety, The Grove and Bred wardine. He also
has a herd of choice Jerseys, which has a herd of choice Jerseys, which he intend
enlarging and going more largely into dairying Of horses, there were twenty-six horres and seven
colts. The clydes are all of the Prince of Wales colts. The Clydes are
and Darnley strains.
maple ridge southdowns.
Stais farm, the property of Guy Carr, Complin numbering $z_{\text {about t twenty five thonsand. }} \mathrm{He}$ is
ne tered Canadian cattle, and Plymouth Rock, regis Wyandotte fowls. He considers the Canadian (Quebec Jersey) cattle a superior dairy breed, and
at the same time very cheap in price at the same time very cheap in price. One cow,
Elly Dance 191, took the prize in competition in the Dominion dairy test forhighest percentageof hutter
fat. He is one of the first to introduce the South fat. He is one of the first to introduce the South-
downs in the section, thinking that they were particularly adapted to the hills of this country The foundation was principally drawn from the
flocks of Robert Shaw, of Glanford. His South flocks of Robert Shaw, of Glanford. His South-
downs are very uniform in tye, and are headed by the ram Sir John 5352 , in American Southdown
Record. All but a few are registered in this Record and the remaindêr are registered in the Quebec
Register Register.
Mr. Ca
has just set is out five ene enterporisising of Russian apples, which. He in spite of the predictios on of hissian apples, whith,
done exceedingly well, and hers, have done exceedingly well, and are just coming into
bearing; and a number of farmers are changin bearing; and a number of farmers are changing
their minds, and are following his example and setting out trees. He stadies convenience in every form. Hisside-hill sugar-house is aspecienen of this,
and is very convenient no handling of sap required. At this place we saw the most complete workshop sen anywhere during the trip: in fact, very few
blacksmiths have a more complete kit. He .also puts them to practical use, as he has done all his are the owners of WELL \& M'CALLUM
are Martintown post joftice five fros about a mile from. Martintown post office, five from Apple Hill,
C. P. R., and eleven from Lancaster, G. T. R. This farm is situated in the valley of the Aux Basin and in the midst of a splendid dairy section, where as he waurnier for a granary. On these farms the
as milk is sent to a cheese factory in the summer, and
in the winter is made into butter at home. The cows are principally Durham grades, and for some good results. On the one farm Mr. Blackwell is building a new barru $44 \times 80$ feet. He has what is a
rather new feature-a driveway down the side of ather new feature-a driveway down the side on This gives the advantage of an end drive without the waste of room or trouble with scaffolding.
They have about thirty Shropshires, a number being imported. The ram being used, at present is
from the flock of the have found sales exceedingly good, and have shipped a number lately to Mr. Cummings, Carmon,
Mass.
Though these are comparatively new hreeders, they cleared all the local shows in that distriet. They are also breeding Yorkshires, hav-
ing secured their stock from Smith Bros., Church-

Mr. R. R. SANGStER's shorthorss.
About half way between the last farm and Lan-
aster is the silver medal farm of the eastern district of twelve counties, named Springburn horns of the Cruickshank and Campbell breeding and a flock of Shropshires. The foundation of tho
herd cane from the stock of Mr. Thompson, of
Whithe has hee. He is using an imported bull enhis hen and natso st Ottawa, while a number of animats are
beinn fitteer for Montreal. At present his herd is
small . having heent small, having leen reduced by a large draft whicl
Was mint onanitola, though he still has a counl
of


Mr. Sangster takes a great interest in his garden,
and has done considerable in experimenting with
ardin and has done considerable in experimenting with
grain. He has taken a number of prizes for his
grain at the leading exhibitions, and the govern. grain at the leading exhibitions, and the govern-
ment has sent a number of his specimens to the kingston road stock farm. About two and a-half miles from the city of
Belleville we find the Kingston Road Stock Farm of J. M. Hurley \& Son, breeders of imported Large Yorkshire swine and carriage horses. This farm
is situated on the beautiful shores of the Bay of is situated on the beautiful shores of the Bay of Quinte. They haviding additions to them, with the intention of going more extensively into dairying. Each animal's milk is weighed and the cows were alltested with the Babcock, so in this way they will keep only such awimals as are paying for their feed. This irm ing hogs for years, but it was not until 1887 that they decided to go into the pure stock business, and purchased a pair of pure-bred Yorkshires
from Ormshy \& Chapman, from the first litter from Ormshy \& Chapman, from the first litter Hurley is the second man who registered in the Yorkshire herd book. Beginning in a small way, pigs from his stock have been distributed all over
the country. Since last November, pigs have been shipped to nearly every county in Ontario, and to Quebec, Manitoba, Michigan and Kansas. The first lot of ten were shipped to Kansas, and were the means of obtaining a large number of orders from
the same section.
Out in the yard we saw two especially good sows of their own breeding. The
older sow, Madam 2, is deep, wide and well let let down, was farrowed in 1889 , sire Sir Edwin, dam
Madame, by Holywell Wonder. farrowed 1891, sire Patsey, dam Madame. The herd is headed by the grand young boarl Duke of Oxford, bred
by J. E. Brethour, Burford; Sir Dauphin 3 rd dim dam. Duchess 3 (imp. in December), by Magistrate.
 / Jannary, i893, sired by General Gordon, dam Lady Ethel. They have never had have ben suchenssful
Our large exhibitions, but hat
wherever they have shown. Last year they sold fifty at the exhibitions they attended, beside sweeping everything at the local exhibitions.
PINE GROVE HERD OF POLAND-CHINAS.

Pise grove herd of poland-chinas.
an farm on which this herd has heen establishe is about two miles from Tupperville on the Erie \& Chatham. For and about sixteen miles notors the proprietor, Capt. Young, has made a practice of feeding pigs for the block, and as he lives in a part of the country where corn is extensively grown, and where the farmer generally market this crop on foot through their ment in the kind of pigs that they were raising and feeding. it was, therefore, with a view to find a suitahle hog to fill the bill in this particular that he while visiting Michigan, secured some PolandChinas, which already show their impress on the
road to improvement in many of the pigs being road to improven
fed in this vicinity
During last year Capt. Young made two selec-
tions from two of the leading herds of the United States, and was enabled to secure specimens which iare not only likely to do credit to his judgment, but
will be of inestimable benefit to those who avail themselves of this opportunity he has offered them tor improving their sho. Selected at different
the foundation stock was sel per iods, and of two selections made in 1892, the the
first comprised the boar Wise Reubin 2sz29, and the sow Retecca, 1 st 7 T0996, both purchased from Mr.
Levi
Arnold, Plainville, Michigan, who has the reputation of being a skillful breeder. Again,
another !ot was brought over later in the year, When the very excellent young boar, Canada
Wilkes. was purchased from Mr J. J. Heebont, Thushivile, Ind. and the sow Cora from
mentioned herd of Mr. Levi Arnold. Inglyt. Young has contected, as his selections have hicen made witha view of supplying pairs not tikin,
we predict that he will be enabled to transact ad large share of thot the pleasure of hisaçuaintance
those who have not mase the assured of fair dealing at his hands.

World's Fair Butter Contest.
The following table gives a summary of the Mupleted ninety days butter contest at the
Worlds Fair, twenty-five cows of each of the three



## FARM.

## Broaden the Wagon Tires.

 force a refo inadvisable to attempt by legislative and that ought to conot be acco personal intell gence and self-interest. At the same time it is aseless to hope for permanent road improvementsas long as the ordinary wagon tire is nsed. How this came to be generally adopted is a mystery, for the saving in weight of metal is easily offset by the depth to which the wheel so encircled will sink into
the mire and the greater force required to dra the mire and the greater force required to drag them through it.
In all European countries where smooth, hard oads have been constructed, people would no more
hink of permitting them to be cut to pieces by nar riw tires than they would of allowing a man to set at work digging them up with a pick-axe. There is n indirect way of getting at a change in the conmon custom of farmers that would be very effec tive. To prohibit and punish the use of the narrow hires is hardly practicable, but a tax levied on all frm wagons having tires not exceeding a cetain width would soon hanish them from the publ iectly justified, as the receipts from it would not suffice to repair the damage which such tires cause Asan accompaniment of road reform, the adoptionenforced, if necessary of standard wagon tires is a necessity.
A recent enactment of the New York legislature provides that to every person using a two-horse or arger wagon with wheels, the tires of whlich high ways, a rebate of half his highway taxes shall be granted. This law was made in the interest of good roads. Dealers in wagons who have been interviewed in Albany say that since the law went into effect, on June 1st last, the demand for
with wide tires has shown a marked increase
The professor of agriculture of the Missouri Experiment Station, who has conducted experiments or the purpose of ascertaining the difference on wagons with tires of different widths, gives his results as follows

The wheel tires were respectively one and $a$-half inches and three inches wide, and the trial was on a partially dried mud road. The load was in each case tires was 371 pounds, and for the narrow 41 pounds, and the broad tires cut the roads less deeply than he narrow ones.
oads, has the following
"The width of tires on vehicles has a great deal to do with the destruction of our roads. The great narrow. It has been proved by repeated and care ful experiments that wheels with tires 2$\rfloor$ inches wide cause double the wear of wheels which hav is nes $\frac{1}{2}$ inches wide. The surface of the roadway is not abbe to bear the heavy load put upon in the
narrow tires, the tire therefore cuts through the surface and forms deep ruts.
The width of tires
The width of tires on wheels should be properly
proportioned to the weights thev are designed to rarportioned Wide tires weate a thendency to roll the
cord and keep it smooth at the same time ; usually
roal and it does not require the same amount of force to hau a vehicle with wide tires, as it ios to haul
one with narrow ones. Muncipalities should con sider the regulating of t traffic in this regard.
Most of the European contsies.
Most of the European countries have laws
regulating the width of tires on vehicles France the market wagons have tires from 3 to 10 France in width, usually from t to 6 inches. Not only have they wid tres, the rear axle is 14 inches
wheeled freight wagous the wheeled than the fore axle, so that the rear wheels
long
ond run on a line about an inch outside of the line of
the fore wheels ; instead of heing a road destroyer they are a veritable road maker.
In order to encourage the use of wide tires in the state of Michigan, hhey have a law granting,
certain reduction in taxes to those who use wide certain reduction
tires.
Vehicles on springs are much easier on roads
 Mr. John Brodie of the Mapleton, Ont. Cheese
factory. who uses a Babcock to test the milk, fur factory who nses a Babocok to test the milk, fur-
nished by his patrons, though he toen ot pay
the basis of fat percentage), reports that he has



Clover Ensilage. In reply to your request for a report from any
ne who had filled a small silo with clover, I will relate my experience. Making ensilage of clover
has been long practised in Europe. We would naturally wonder why it has not become more common in America, but after giving it a moments'
thought, we would conclude that: 1st. The shortness of our season has something to do with it.
nd. Not enough clover grown. 3rd. The silos are 2nd. Not enough clover grown. 3rd. The silos are
too large. 4 th. Hands and machinery are too oo large. Th. Hands and machmery are to do
scarce. Thize of the sio has a grat deal to
with it, because after it is once opened it should be fed immediately, as it so soon rots and drys out on the top after the air gets to it. The size of the silo which 1 filled was 10 x 12 and 20 high , which will
hold about 54 tons of ensilage. The silo is built of wood, which I do not
recoume brick would be preferable. A silo this size will answer the purpose very well hor about thirty-five
head of stock. Care should be taken not to to mach outside surface in proportion to the amount it holds. A round or square silo would be
ane best shape. The more there is exposed to the air the more will waste.
large. The nearer the field to the barn the less will be needed. Six men are all that will be engine, horse or tread-power to run a cutter with
carrier, are sufficient.
The time required to fill a silo of the size men-
tioned with the number of hands stated will be rbout two days. The silo may be filled without in terfering with securing the other hay; indeed, the
time spent in filling this year was never missed. time spent in filling this year was never missed.
After a shower, or in the morning when the ther
and After a shower, os a good time, although, after once
hay drying is
commencing to fill, the sooner it is done the better yIELD OF CROP.
A heavy crop of chover will yield as much per
re as from to of an acre of corn. Four acres acre as from $\dot{\text { t }}$ to of an acre of corn. Four acres
filled a silbo of 2 , 400 square feet, this being a little above an average crop. The, kind used was the
anmon red clover, rifolium Pratense but common redrown especially for the silo $I \mathrm{w}$ would
clover was recommend Lucerne, being better for producing
rect milik and muscle. Alsike is good, but will only pro
duce one crop and no aftermath duce one crop and no aftermath. Lucerne is a
more sure crop, and will produce more in bulk and two or three cuttings in one season. Dry weather
will not affect Lucerne as much as it does other clover, on account of it being a deeper
primere principal obbection raised against Lucerrese
farmers is the amount of care which has to be exercised in harvesting it, on account of it getting
woody so quickly. This would be obviated is woond so
utilizing it tor the silo. I have no doubt if rye or other green fodder was mixed and cut at the same
time it would give good satisfaction. This would be time it would give good satisfaction. This w.
better done if the clover had got a little old.

Filling should commence when the clover is green, especially if the silo is made of wood. The
rrener the clover the better it will pack, and the greener the clover thi be from air-rotting. Drying or wilting does not improve the quality of the en-
sila ei the fresher it is when fed the more it will silage; the fresher it is when fed the more it will bo
relished by the stock Tramping in the silo should be thorourh- better still if done with a horse, which should be used most around the outside. About
three feet in the silo that we filled this year didn three reet in the silo that we filed this year out ensilage was good almost to the wall where it was tramped, but where it wasn't tramped it had covering can abe mine ine of thes to one frings. We. Ae com
covering
menced filling this year on the third of July and mished on the eleventh.

Feeding may commence in a couple of weeks
after being filled. It is better to let it settlie eown perfectly yefore opening, to prevent the air workremain good, quickivl whente be beter to delay opening little longer. Commencing feeding on the 30th of up to August 24 th. The amount of stock fed on this was 5 horses, fed all they would eat, and 30 cows twice ad dy think it preferatho et ohay ;at least
hay now, and teat
they hey. are doing better on the colover than when fed
haye ensilage is principally used for feed ing horses in England. I cannot say how pigs will thrive on ensilage, but I think wheat at ©5 cts. per nushel would be cheaper and give better returns.
I would than pea chop to be fed with the clover.
The cost of filling was about \$820. Being hard
to figure on the profits, I wiil leave that with the readier to judge for himsel.i. Had it not been for the ty pest coming on about the same time as the
pastures failed, , think my cows would have held their own in milk
of making ensilage of clover
are as follows:
Ist. It saves a great amount of lator in curing
cover, esperially so if the season is wet and the rob theary.
end . There is less loss in feeding.
3rd. No loss of leaves.

4th. Prevents the escape of ammonia and loss of tarch and ash constituents due to exposure. 5th. The crop can be cut and haves rine.
weeds. It meadow are of the best substitutes for pasture green fodder in a dry season.

## Agricultural Libraries.

As winter approaches and the evenings lengthen out, it is well to prepare a profitable means of spending thery operations of the farm. "We know of no better employment than reading and seeking fuller knowledge of our own business-farming.
Several of the institutes have wisely invested in some of the standard agricultural works, forming
small circulating libraries open to all members of small circulating libraries open to all members of
the institute. Wherever adopted, this plan has proved satisfactory, and the example might be followed with advantage by others. Many who are not fortunate enough to have an institute in works on their own shelves. The following list of works will be found helpful in making selections for this purpose :
Practical Poultry Keeper How Crops Grow How Grops Feed. Chemistry in the Farm Feeding Animals Cattle Breeding Horse Breeding Practical Shepherd. The Hog in Americ Swine Husbandry
Harris on the Pig Veterinary Adviser Cattle and Thei
Barn Building...
Insects Injurious to Fruit
Farm Drainage.
Grasses of North America
Gruit Gardening..
ruit Gardening of Apiar
Practical Farm Chemistry
First Principles of Agricultu
Johnson ; latest edition.

First Principles of Agricultur
How to Make the Garden Pay
Johnson ; latest edition.
Johnson ; latest edition.

How to Nake the Garden Pay
M, Breeds, Management and Diseases... Younat suffice for the present All or any can be obtained

Notable Implements at Chester.
There was a large and more than usually varied
display of implements at the Royal Agricultural display of implear, the entries numbering about on hundred over those of Warwick, says the Farmers zzette.
The special competitions for 1893 were trials of
self-binding harvesters andsheep shearing machines or power and hand. The first must be deferred th the harvest; the latter were pums entered for this
show ground. Only two firms and the Newall-Cunningham Syndicate, of London Sheep were shorn but the work did not seem to give complete satisfaction to the onlookers, although in Australia they are said to be very successful, The judges eventually gave their award of $£ 20$ prize
to Messrs. Burgon \& Ball for the power machine, to Messrs. Burgon seemed hard to work, and to shear the sheep roughly, did not possess sufficient merit to secure a
prize. No doubt much better work would have prize. No apart from the hurry and excitement of
been done-a
the show-yard. Certainly the prize machine did the show-yard. Certainly the prize machine did
better after the competition was over than when the judges were watching it. It is expected that
there will be a very keen competition for the there will be a very keen competitiont makers, English and American, are entered. If the weather ontinus as the respective merits of the elevating system against the non-ele vating, as represented
by the Adriance, about the patents of which the
boccupied. patent courts of America are so much, exhibited a
Messrs. Hicks \& Co., of London, Messrs. of butter pat machine, which is said to
ne capable of turning out as many as 2.500 pats in
be capared an hour, stamped with any required impression.
The price, howerer, 1.515 s ., renders it only suitable
for large concerns. for large concerns. "Era" dise churn was a constant
The new "Erat
source of interest to the farmers, who watched insource of interest to the farmers, who watched in-
tently the manat work, and checked off the time tently the mand
of churning, which is senerally about five or six
minutes. The construction is simple enough a
disc of hard wood, revolving at a rather high speed disc of hard wood, revolving at a rather high speed
in an oblong, narrow chamber. The cream is
carried up, and driven up against the cover untit it carried up, to butter. When this is effected the
is turned the ne nothat the inventor
butter will non the dise, so that
claims that over-churning is not posibible. We butter will not rise on the disc, so that the materner
claims that orer-churning is not posible. We.
fancy that this article could only be made in small
sizes, as the chanber in which the disc work must

## Plowing Matches.

by w. A. hale, sherbrooke, que.
Where the association is formed in a county having one or more large towns and villages, a very large portion articles of various kinds, by giving the
and useful
donors in return the benefit of the advertising donors in return the benefit of the advertising
resulting from the publication of their names and resulting from the publication of their names and
prizes in the local papers, and on the poster prizes in the local papers, and onches. At the
announcing the prize lists and match a large central fairs held each autumn prior to the
dates of the matches, useful farm implements can dates of the matches, useful farm inplements a
often be secured and introduced in this way ; horse rake, hay tedder, plough, harrow, or cultiva-
tor, etc., will often be given by an exhibitor upon ine association paying, say \$oon a from, the manufacturer, and the association advertises it as
prize, the winner either to pay the $\$ 5$ or not, as the association sees fit. In some cases, too, manufac
turers of agricultural implements, or large agencies turers of agriculturat implements, or large agencis
of the same, will give silver cups, in some cases to
be won twice before final ownership. County be won twice before final ownership.
members of parliament, too, are often willing to mentribute annually in this way, and millers, storekeepers, fertilizer manufacturerz and tradesme generally, breeders of up a useful and creditable prize list, Whie few are the friends of so important an
organization who would refuse to subscribe from $\$ 1$ to \$2 a year. In the association in which I have
held various. offices for thirteen years, we have held various offices for thirteen years, we have
lately made a very important addition to the prize
and list. Certificates for services by the best stallions inst. Certinict are secured and given as prizes for
in the distreat
the "best team and neatest harness," the first prize the "best take first choice, and so on. In preparing the prize list, which is done by the committee appointed for, this purpose, assisted by the secre-
tary we have found it best, in order to keep our tary, we have found it best, in ord example to the cup-winning pen, to make No. 1 match open to the
younger men younger men, to prize in this match being an
district, the first pred
annual medal. Any plow allowed, including wheels annual medal. Any plow anowed, The cup winner in and gauges, etc., into this he has finally won his cup,
No. 2 match, so soon as must enter there to compete, if he so wish, for ald time. This No. 2 match is practically but imitation Slows, no wheers mor compete if so desired; first prize always a cup, to be twice ownership. No, , wheels nor gauges allowed ; first prize always a cup, and the final cup winner to be sent up to match No. ${ }^{2 .}$ During the "ast ead years,
we have left out match for "broad points" we have eften or heavy cast-iron beam plow),
(the old wooden (the old watch No. 4 is for boys under eighteen years of age, any plow, wheels assible, and the winner to prize an up to match No. 3 , no matter what his age,
be sent und or in case the cup has to be won twice and iven one more chance before being sent up. Whenever a
cup is won the association gives $\$ 2$ or more with it, to enable the winner to have his photograph taken with his cup, and in case he photograph as proof of he has the satisfaction on ane year. Cups in this way serve as prizes for at least two years, and should be
really good and suitable ones, and the name and date of each winner shoudiation. In this way an anual prize list of the value of from $\$ 150$ to $\$ 300$ ought easily to from twenty-tive to fifty or more competitors each year, every one of whom should
receive a prize in the order of his merit, thus grading each one s work, Proper judging, of course, is of vital importance, and here I would like to lay particular stress upon the necessity of getting the to pay liberally for it. The land committee should lay out the he day before the match, eight acres
possible the dat
heing enough for forty competitors, besides head being enough for forty, competitors, besides head
land, etc. : and by ten oclock all should be in place
, hand bell rung, and the plows started, the order
theing for each mam to first form his crown-ridge six furrows wide and then by plowing out to hi
neighbour's crown-ridge as well as his own, finishing his work with an open furrow. At noon a rest
of an hour will delay the work sufficiently to allow people to arrive in time in the aternowe the judge
last of the competitions, and vet give
time to complete his work: supposing he begins at time to complete may requite some one appointed
two oclock, he mat of the directors to assist him, as
or approved of by well as the secretary, who should be in attendance
to place the prize tickets as soon as the awards are to place the prize tickets as soon acord of the same.
Made, and to keep an accurate rect
Separate judges should be at this time awarding Separate judges should be at this time awarding
the prizes for the best teams, and where time and
the resources of the association will allow of it, and particularly if there are a number of people who
havecome too late to see the teams at work, a wery interesting compeetition for some nom nal prize can
be nade be tween a few of the first prize-wine
for the best fasing and forming of a crown-ridg
The proprietor of the land usually. furnishes th The proprietor of the land usally furnishes the
phownen with bread and cheese and coffee in the
fichat noon, and wises a more substant ial meal to
the directow mhl ind fied at nown, and wives a more substant ial meal to
the directors and mulges in the house, the plow
the finishing of the match and the meeting in the evening, the secretary should write up his minutes and prepare all certificates of prizes, etc., and, if
possible, submit a balance sheet of accounts. Of possible, submit a dispensed with the plowmen's dinner in the evening, to the satisfaction of every one; it was an unnecessary expense, At this meeting the first business should be the distributing of the prizes, either in kind, in cash, or in certificates; after this the election of the new hoard of officers
for the ensuing year should be proceeded with hy open votes of the whole meeting, during which, open the subscription committee would quietly send
if und a subscription list headed by the president, round a subscription list headed by the president, could be obtained at any other time. Appropriate addresses, songs, and even music by a band, will be in order, and tend much to enliven the meeting ending to a most useful and important year's work. The books of the secretary cannot well be audited till fter the meeting, inasmey up to the time when he ang and distributing mond go out of office : this audit can be made and submitted at an adjourned meeting, or published in the local papers. Our own county
association was established thirteen years ago; the first match brought out twelve competitors, three of whom were really good men ; now we average
thirty-five competitors, thirty of whom might be thirty-five compeetiars, cood workmen, and with a strongly marked degree of improvement year by year. In addition to this, the noticeable change throughout the only in the plowing and general cultivation itself, only in the plowing and general cut of farm work, together with the better style of tools employed and the greater interest everywhere manifested wood work that a well conducted plowmen's association can do; and the conducted pitance of having one of these pleasan
vital importable associations established in ever
and protita county in the country must be my excuse for thu county in the country must be my excuse for which
giving in such detail the easy method by
they giving in such daintained.
Drainage Insures Certainty of Crops. The cultivator of level undrained lands is contin-
nally harassed in mind about the uncertainty of his business. He must wait until the season is well advanced to plow his land. Then if he plants he
uncertain whether the weather will be favorable It may "turn out wet," and the constant evapora tion, keeping the favorable for the germination o
If the season be fater the seed, and the young and tender plants appear then it may "turn out showrey," and the land be come so wet as to place it out of his power to cult
vate it, and the crop turn out badly; or, if the season be dry in the after part, the land, which i seaturally wet, will dry out and become hard, and the crop damaged. scratch, wet or dry, and depend on plod along and accept his fate, and blame Providence. But the farmer who cultivates land which is thoroughly underdrained, can break it earlier
the spring; the soil is loose and friable; and he can the spring; the soil is loose and certainty that the plant, if good, will germinate; he can cultivate sooner, with a third less labor to both man and
beast: can be stirring the soil in twenty-four hours beast; can be stirring the soil soil is warmer, and promotes the more rapid growth of the crop and is less liable to damage from late frosts ingthening the early frosts in autumn, pratuicaly fully thirty days,
season for growth and maturity futhen or if the weather should be dry, the roots, decend ing deep into the earth, bring up the moisture below, producing be wet or dry, the farmer on drained land has a certainty of an abundant yield which enables him to mature his pe of habsility ex failures. The experience of past seasons omen-
treme drouth in some localities has fully demonstrated the fact that drainage protects agai Sir Walter Gilbey Honoured in His Birth. place, Bishop Storford, Essex, England Sir Walter Gilbey has been entertained by the banquet to celebrate the honor of a baronetcy recently conferred upon him by the Queen. About two hundred and fifty persons sat down to dinner Miller. The toast of the evening was "The 'Squire of Elsenham,"and the chairman in proposing itspoke of the genuine sympathe wrosperity of the farmers had an ways shown in the prospere of his neighbors.
of the district and with the welfare enthusiastically cheered, replied with much emotion, remarking that sixty years had passed since he first saw
light at Bishop Storford, and his heart has retained an unwavering allegance to his native place. been realized when he was able to come back. after an absence of some years, and make his hom spent. He
scenes where his childhood had been she appreciated highly the good wishes of his neigh
hors and his friends across the seas, particularly himself of their kind invitation to visit them. en-
In the afternoon Sir Walter gave a tea and In the afternoon Sir Walter gave a teal and en-

The Russian Thistle.
In many parts of Dakota and Minnesota, the above-named weed seems to be causing considerable
trouble; we do not know of its existence on thi side of the line, although its near relative, the tumbleweed, is very bad in some parts of the West. We recommend a careful perusal of the following quotations from Bulletin No. 10., U.S. Department of Agriculture : all should be on the lookout for i in their fields or
"The Russian thistle or Russian cactus is really neither a thistle nor a cactus. It is a saltwort
closely related to the tumbleweed, goosefoot closely related to the tumbleweed, goosefoot,
lamb's-quarters, and pigweed. Under any name, lamb's-quarters, and pigweed.
however, it is one of the worst weeds ever introduced into the wheat-fields of America. To the botanist it is known as Scolsolu Kuli L. var. Trugues
D. C. In some parts of Russia it is known as Tar D. C. In some parts of Russia it is known as Tar-
tar weed and Hector weed. Saltwort is its true English name, but to the farmers of the North west, who are best acquainted with the troublesom
plant, it will probably continue to be known as the Russian thistle until finally exterminated."


RUSSIAN THISTLE BEFORE FLOWERING
description.
The Russian thistle is an annual, coming each year from the seed. It grows from a single smet and 6 to 12 inches long to a height of 6 inches to : feet, branching profusely, and when en in diameter forms a dense bush-like pirds as high. When young it is a very innocent-looking plant, tender and juicy leaves. When the dry weather comes in Augus

guise disappears
the tender downy
leaves wither and reaves wither and
fall, and the plant
increases rapidly increases rapidy
in size, sending
out hatd. stiff branches. Instead
of leaves thees
of -
ugliness. The spines are one-fourth to one-half inch long. At the base of each cluster of spines
is a papery flower about one-eighth of an inch
in diameth If this be taken out and carefull in diameter. If this be taken out and careflily
pulled to piees a small. pulpy, rreen hody, coilei
 hard and of a rather dull gray color. At the earies
frosts the plants change in color from dark yree
 more exposed parts. When the ground become
frozen and the Xovember winds blow across th
pulled out. The dense yet light growth and circular
or hemispherical form of the plant fits it most per-
fectly to be carried by the wind It fectly to be carried by the wind. It goes rolling at every bound, and stopping only when the wind goes down or when torn to pieces, for there are few
The saltwort or Russian thistle appears more Le the common "tumbleweed" Amarantus albus e readily distinguished from the tumbleweed by The sharp spines in clusters of three each, the and by the red color in the fall.


A weed is only a plant out of place or a useless hlant taking ethe place of somether pretty when reddened in the fall, and useful for forage when young, is always a weed. It will take possessind draws from the land a large amount of nourishment that might otherwise go to make useful plants. In these weeds, except that it spreads and multiplies more weeds, and hence takes more space and more

$\underset{\text { Chameof its special }}{\text { Soristics }}$ characteristics ren-
der this thistle much
more troublesome than other weeds. It is armed with spine
quite as sharp and much stronger than thistles. Because of a field where the plants are abundant. In some sections the
farmers find it necesfarmers find it neces
sary to bind leather sary the horses'legs
about the at work.
while while at work
Horses running in the pasture are often
injured by having the skin on their legs
badly lacerated. The badly lacerated. The
spines breaking off
under the skin under the skin cause
festering sores Thesengois Hunters find difficult $y$ in getting their dogs to work well for praire chickens in the the sharp spines Threshers find it almost impossible to get gloves Thick enough tokeep the spines out of their fingers, et thin enough to work with.
weed on the prairis, and in time of praing tumbleeasily hlown across a fire-break of any width, is
rving fire to stacks and buildings. The weeds bank
up against wire fences, causing them to be blown
over by the force of the wind, and are sometimes over by the force of the wind, and are sometimes
carried into the groves on tree claims, making it impossible to cultivate. In this way, by forming a mood. often several feet deep, they may do some bulky and stiff, making it very difficult to run harvesting machinery or even a plow. On railroad plants they prevent the growth of grass and oth

The it $\cdot$ therigis
The Russian thistle originated in eastern Europe
western Asia. It has been known in Russia many years, and has quite as bad a reputation in the wheat regions there as it has in the Dakotas.
It was introduced in Bonhomme County, S. Dak., it was introduced in bonkore fifteen years ago. Reports differ as to the method of its introduction. There is little doubt, however, that it was first brought there in very
small quantities in flaxseed which was imported from Europe. There is evidently no foundaoften related as a fact, that it was first sown in to inflict an injury on an enemy. The few plants grown from the foreign seed grew, produced seed,
and incteased slowly and alnost unnoticed until about seven years ago (1886). They were then
thoroughly acclimated and naturalized, and seem to have partaken of the conquering spirit of the West.
conditions fayorable or unfayorable to
Russian thistles grow best on high and dry land, where they are not too much crowded by other
plants. They are seldom seen in sloughs or low land, and make no progress in the native prairie, except where the sod has been broken by badger on some of the ranges. They are less numerous and robust in wet seasons thet stand wet weather, but because they are more crowded by other plants. Some Russian thistles growing on the bank of
an irrigating ditch, with their roots almost in the an irrigating ditch, w and more vigorous growth in
water, made a larger
the dry season of 1891 than others about them in the dry season of 1891 than others about them in
dry soil. At Minneapolis, in 1892, the rainfall was dry soil. At Minneapolis, in 1s82, the rainfall was
15 inches before the end of September, yet the few thistles there were growing well.
The thistles appear to grow equally well in alkaline soil and in soil that is not alkaline at all.
So far as the amount of rainfall or alkaline quality So far as the amount of rainfall or alkaline quality
of the soil is concerned the Russian thistle may grow anywhere in the temperate zone. winds, and the methods of farming are particularly favorable to its distribution and growth in the Northwest. Wheat after wheat, with an occasion-
al barren (or weedy) fallow, but no cultivated or al barren (or weedy) fallow, but no cuitated or
hoed crops, gives but little opportunity to clear the hoed crops, crops have induced the farmers to break up more
land than they can work well. Wheat is sown land than over a large number of acres, sometimes merely over in in on the furrow, or even in unplowed
drilled in
stubble sufficient cultivation of the soil. Where whole sections or even townships are one continuous wheat field, an acre here and there grown up to
weeds, so as to be not worth the harvesting, doe not seem to cut much figure in the total amount and the weeds are allowed to grow and ripen seed begin to a arger area the next year. to ripen thisted soon after the harvest; but at this time, when they most need attention, the farmer finds it diffiand the weeds are left to take care of themselves. which they in the spring or early summer is especially favorable to the growth of the Russian thistles, since they can get a good tart in thy, and,
being able to stand dry weather better than other plants, they take complete possession of the soil. Land broken up in spring or early summer, for the seed is everywhere in the prairie grass, and only waits for the sod to be broken that may grow. A hard frost early in the fall kills many Russian educes the number of plants the following season. during the present season is doubtless due to an less vigorous growth is due to the excessive rains early in the season.
wild not rubsian thistlee die out of
This question is frequently asked, and there rally seems to be some groun less troublesome in warr than it was the year before. Causes for this have just been given. In many instances it has ground has become thoroughly seeded with the pests, they come up too thick to grow in their and spindling, are guite unfit to roll about as tumbleweeds. There is no record, however, of their becoming so thick over any large area vary good tumbleweeds. What is true of small patches

There are a few examples known where foreign
weeds have been introduced into this country and have spread so rapidly as to cause counsiderable alarm for a few years, and afterwards have died out or themselves, or at least have ceased to cause weeds have been troublesome for many years and
are still causing trouble in all infested regions, are still causing trouble in all infested regions, determined effort, have exterminated them. There is indeed a possibility that the Russian thistle may die out of itself, but there is a greater probability that it will to cause much domage in its present area, but that it will spread elsewhere. There is a certainty that if thorough measures be taken to
stamp it out of existence, it may be killed and will stamp it out of existence, it may be killed and will
cease to be troublesome anywhere.

Plow in August or early September, before the
Russian thistles have grown large and stiff and Refore they have gone grown lo seed, using and care that and
weeds are well turned under. If the season be weeds are well turned under. If the season be long and weeds come through the furrow it may be over stubble fields as soon as possible after har-
vest. Cut the stubble with a mowin gmachine, if vest. Cut the stubble with a mowin gmachine, if
the fire does not burn everything clean without cutting. Cutting the stubble and thistles before the latter have gone to seed will help, but is not thoroughly effective without fire, as the thistles will send out
branches below where the mowing machine cuts
them. Ife weeds have been neglected and have Srown lare especially on neglected barren fallow or spring-plowed breaking, they may be raked into windrows and burned. The old-fashioned revolving hayrake or any rake made especialy at at clar-
as to pull the weeds, and especially good at
ing itself in dumping, will answer the purpose. An ing itself in dumping, will answer the purpose. An
ordinary wheel hayrake with a set of strong teeth has been used successfully. This method is to be of September some of the weeds will be ripe enough to shell out and will escape being burned with the plants. If left until octuber, when many of the
plants are certain to be fully ripe and dry, the land plants are certain thewing will be well seeded anyway; but raking together and burning the weeds
will prevent their being blown across neighboring fields during the winter. Of course care should be taken to do this work when there is little wind, for a burning Russian thistle before the wind will Barren fallowing does very well if kept barren by thorough cultivation. It gives but little benefit
to the land, however. A much better method is t to the land, however. A much better method is to sow clover, millet, or rye, pasture it and plow it
under green. This will be beneficial to the land, under green. This will be beneficial to the land,
especially if a comparatively lare proportion of
clover is used, and the weeds will be choked out. clover is used, and the weeds will be choked out.
Miltet and oats combined may be grown and cut for hay. This crop will choke out nearly all the weeds,
and the few that do grow will be too slender to cut any figure as tumbleweeds.
Corn, potatoes, beets, or any cultivated crop well taken care of, will in two years rid the land of
not only the Russian thistles, but nearly all other weeds.
Sheep are very fond of the Russian thistle until
it becomes too coarse and woody. By pasturing it becomes too coarse and woody. By pasturing
the sheep on the young plants they may be kept
down, and the only valuable quality the plant has down, and the on
may be utilized.
In fields where the weeds are thick drag with an As soon as the harrow is full of weeds set fire to them and keep dragging and burning. This scheme, actually been tried with success.
If the Russia thistle is to be kept out of the cultivated fields it must be exterminated along road-
sides, railroad grades, fire-breaks, waste land where the sod has been broken, and, in fact, in all accidental places where it may have obtained a foot-
hold. hold. ordinary road machines may be used to advantage along the roadsides, the scraper being set
so as to take as thin a layer of earth as possible and throw weeds and all to the middlle of the track. A single trip each way with the road machine
would be sufficient in nearly all places to take the weeds between the beaten track and the prairie
grass, so that 1.5 to 20 miles a day could be easily cleaned. If this work be done in August, hefore
the Russian thistles become too large and stiff, the work of the road scraper will be sufficient. Going
worer with a heavy roller, however, would not only
ove improve the road mature plant would be blown away. If the work is put off until September th weeds should be raked together and burned.
On firebreaks, railroad grades, and odd places
red judicious use of the mowing machine, scythe, hoe rake, and fire.

> Place a Russial thistle in each school-honse, so
that the pupils may become familiar with it, and hat the pupils may become familiar with it, and would kill a rattlesnake.
Pernit no Russian thistle to go to seed. The
lived; hence if no plants are permitted to go to
seed for two years the weed will in all probability be exterminated. Let no one break up more land than he can take
care of, or more than he can properly cultivate. care of, or more than he can properly cultivate.
Let each farmer first keep down all the weeds on his own farm, and then insist that his neighbor do likewise.
A little
careless farmer, the non-resident landowner, and the railroad companies, would aid considerably in the solution of the question.
Be careful that all seed sow as the modern fanning-mill can make it. Use especial care in regard to flaxseed and millet, o any of the smaller and lighter seeds. reached the East, but as seed grain, especially wheat and oats, is yearly imported from the North
west into west into Ontario and Quebec, we advise th
farmers of these provinces to be watchful so as no farmers of these provinces to be
to let this pest obtain a foothold.

## Experiments with Winter Wheats.

 According to the report of C. A. Zavitz, of the Ontario Experimental Farm at Guelph, we learn that the work which begins at the Guelph Farm agency of the Experimental Union, and is growingager parts of Ontario, through year by year.
The eleven
The eleven most productive varieties of winter wheat, which have been grown by sixty experi-
menters in different parts of the Province, have made average yields as follows: Dawson's Golden Chaf
Golden Drop
Farly
Early Red Clawson
Bulgarian. ironze
American Arone
Mediterranean.
Surprise
Jones' Winter Fyfe
Fulcaster....
Feltz Wonder
Red
34.9
.34 .4
32.6
31.4
31.3
31.3
30.8
30.7
30.0
27.4
26.4
24.9

The following facts have been obtained from the 1.-The Fultz, Dawson's Golden Chaff, Golden Drop and Early Red Clawson proved to be the
earliest maturing varieties, and Jones' Winter Fyfe earliest maturing varieties, and
and American Bronze the latest.
were the least affected by rust, and the American Bronze and Jones' Winter Fyfe the most. 3.-The Dawson's Golden Chaff, American possessed the greatest strength of straw. 4.-The Mediterranean, Bulgarian and Fultz
possessed the longest straw, and the Surprise and he Golden Drop the shortest
5. -The Dawson's Golden Chaff, American Bronze most in fy Red Clawson varieties seemed to be the and Red Wonder the least in favor. path around each one.

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

| As, | Place of Fair. | Dates. |
| :---: | :---: | :---: |
| ince Edward Counts |  | Sept. 12 and 13 |
| Lenark Horticultural Societ | Lonark |  |
| Wellesley \& North East Hope. | Welle | ،. 19and 20 |
| South Renfrew. |  | ،. 199and 20 |
| Ontario and Durham Ex. Ass $n$ | W | " 19 to 21 |
| South Lanark Fair | Perth | 19 to 21 |
| Bay of Quinte Distric | Rellesili | 19 |
| Qrthwest | Goderich |  |
| roy A cric |  |  |
| Central Canada Exhibition. | Ottawa | 22 to 30 |
| Contral Exhibition | crbo | ${ }^{25}$ to 27 |
| Li, | ${ }_{\text {Ste }}^{\text {Singeth }}$ |  |
| North Riding of Oxf | Woodstock | 26 and 27 |
| Mornington Agric | Ni |  |
| South Grey Exhi | ${ }_{\text {den }}$ | 䢒 |
| S. Slierbrooke Agr. Sociely | Maberil | $\cdots 26$ and 27 |
| Southern Fair | Brant | $\therefore \quad 26$ to 28 |
|  | Co |  |
| Great Northe | Lindsay | - ${ }^{271029}$ |
| Ross and Bromler | Coblen | - 28 |
| The Cannington C | Camming | " 2*and 29 |
|  | Til |  |
| Noretham Rgrichini | Strat |  |
| Dalhousie Agl | M. ${ }^{\text {d }}$ |  |
| Malahice Agr |  | Oc. $0^{2}$ 2 to 4 |
| Horth Brant | Pari |  |
| Arihur Tp. Union Exhibitio | Arth | 3and 4 |
| Stephenson Agr: | Itterison | " 3and 4 |
| North Simeoe ${ }^{\text {F }}$ |  | -. 3 to 5 |
| 隹 |  |  |
| Penismar mur ${ }^{\text {ast }}$ | Markh |  |
| antre Wellington. |  | $\cdots$ \% Sand 6 |
| rth Renfrew Fair | Reachbury | jand is |
| Kint Skrivult | Thames | ${ }_{\substack{\text { ban } \\ \text { bito } \\ \text { do }}}$ |
| ward Branch Agr sinc. | Ridyeto | - 9 to 11 |
|  |  | loand |
| Norfolk Cnion Eai | con | 171019 |

GARDEN AND ORCHARD

## Autumn Bulbs

The culture of bulbs, both for winter blooming in the house of bulbs, foth for early sprinter dispoming
the garden, is greatly increased in this
 increased in this country,
showing that this most eleshowing that this most eleis an established fact that those who once try them
will never again be without will never again be without
them, and will increase their collection as rapidly as pos-
sible. No class of flowers are so sure to succeed and please beyond expecta-
tions as hardy bulbs. Cultivated in pots, they bloom
profusely in any window, profusely in ay window,
and brighten the most
dreary mid dreary mid-winter days.
Planted in the garden, they us in the early spring, and us in the early spring, and
with their masses of bright
colors they make colors they make gay and
fragrant our garden and fragrant our garden and
yards, which would other wise be dreary enough. Any garden soil will
grow bulbs well, but it
must be drained so that must be drained so that
water will not lie on the
surface for any len surface for any length of
time, or the bulbs will be time, or the
likely to rot.
After plan
After planting, and be-
fore winter sets in, cove he bed with prevent blowing off. If the leaves cannot beobtained readily, coarse manure will answer. In the spring, rake off the covering, bait a week beforeremoving the remainder Nothing moreisrequired except todestroy the weeds. The following varieties will all give the greatest
satisfaction with the least care and attention satisfaction with the least care and attention
Hyacinths.- Perhaps it is not too much to asser Hyacinth.- Perhaps it
that the Hyacinth is at once the most useful and popular bulb at the present day. It affords support to thousands, pleasure and delight to millions
of the human race. From its eastern home it has spread west, south and north until its beauty and fragrance delight all civilized people.
Tulips.- The culip is so perfectly hardy, flourishes
so well under the most ordinary care, and is so varied so well brilliant, that it never fails to give the greatest satisfaction. It is adapted to garden culture in
nearly every country. Nothing in the floral world nearly every country. Nothing in the foral world
can equal the dazzling brilliancy of a bed of tulips. Crocus.-A bed or border of crocus is very gay
in the very early spring just as the snow melts, and in the very early spring just as the snow melts, and
is a gracious reminder of the coming season of
bin is a gracious remm
buds and blossoms.
Narcissus. or Daffodils. -Their season of bloom continues about two months, from the earliest to the latest varieties. Theyare varied and beautiful inform
and color, and their delicious fragrance isunexcelled. Snowdrops. The first flower of spring is the delicate snowdrop, white as snow. Its appearance
about the first of March is a joyful surprise. a queen of thowers, and only the rose can dispute a queen of fowers, and only the rose can disput
its claim to queenly honors. The lily abound every where in the truly noearthly monarch waseve mountain-top, and
arraved as one of simple, yet beautiful flowers. following, which should have a place inevery garde The Colchicum or Autumn Crocus, which throws
up its flower in the fall-a very interesting and beautiful flower. ment has been made in these from the old-fashioned
flag flag.

Crown Imperials. Very curious and interesting.
The Scilla.-The brightest and prettiest and hardiest of our early spring flowering bulbs.
We might go on and name a host of other early flowering bulbs, but space will not permit. For list of other carieties, write or call on some respons
ble seedsman who will gladly furnish you with a ble seedsman, who will gladly furnish complete in-
catalogue which will give full and
struction as regards varieties and their treatment. An Orchard Ladder.
An as and A cheap orchard ladder is descril
Sampson in the New England Farmer, He says: "Last year I took a cedar tree, fifteen feet long and five inches through at the but, down-
to the factory in the town, and had it sawed length-
wise in the middle about twelve feet from the butt wise in the middlle about twelve feet from the butt
upwards. I took it home and stretched it three feet apart at the butt end, and sawed notches eleven
inches anart, in which I nailed flat stens, leaving
the top held close together ly an iron hub band. the top held close together ly an iron hub band.
It is the best apple ladder I have ever used. The
swall end proes into the heart of a crotch, and the smad end goes into the heart of a crotch, and the
hroad foundation prevents a turnover of the picker.
I made it in in hour and a-lalf after I got home, and paid fifteen cents for sawing at the facthery for
IFarners who depend on their neighors for
ladders in the apple picking season wonld do well

QUESTIONS AND ANSWERS.




## Veterinary.

answered by w. A. dunbar, v.s., winnipeg. A.H. R., Gladstone, Man.:-"I had colt castrated last spring; about a week afte something like a cord appeared hanging from the
wound ; it was about an inch long and remained wound; it was about an inch long, and remained back part of the sheath just in front of the wounds, it continued swelling until now it is as large as one's fist; swelling is quite hard, one of the wounds is
not yet healed, colt seems healthy and is thriving well. Please advise.
Your colt was probably castrated by the clamp-
ing method, which, by prolonged tension of the cords, is frequently productive of the trouble the have mentioned. The ends of the cords, having to remain so long in contact with the tissues of the
scrotum, become attached thereto, causing extra scrotum, become attached thereto, causting extra tion. The proper remedy is to remove the tumor by surgical means, but the operation
undertaken only by a qualified person.

Harry Delf, Indian Ford, Man.- "I have a
seven-year-old horse that is run down in flesh and seems weak; when walking he crosses one leg over the other : he is full of worms, both long and short.
I gave a physic of one pint linseed oil, and one I gave a physic of one pint linseed oil, and one
ounce of aloes, which brought away a good many worms. He feeds well now and has a sleek coat. What can I give to strengthen him.
Give, morning and evening, in mash, for one
week: Nux vomica and sulphate of iron, of each one drachm ; areca nut pulv., four drachms. Give a moderate ration of dry grain (oats) at noon.

Mare suffering from general debllity.
"Veritas Vincit," Reaburn, Man:-" I have mare which foaled about two months ago all right. She was allowed to run with her foal on the
prairie. but gradually fell off in flesh until she beprairie. but gradually fell off in flesh until she be-
came very thin, and not coming home at night, was found, next day, lying unable to get up. it better to keep her in the hay jard instead of in the stable. Have had her only since 1st June; learned that she was poorly fed and hard worked to within two days of foaling. Since I got her she
has been regularly fed oats, and, since finding her lying on the prairie, her feed has been chiefty hran-
mash, with boiled barley or oats scalded mixed in t. There is a discharge from her nostrils, which may have resulted from getting cold, being kept
out, as when she lies down she is yet unable to raise herself, and seems powerless to do so, and we
were afraid she might injure herself in the stable. whe an on her legs she seems all right, and walks around, although rather timidly. Of course we
took the foal off her. Aged 13. Seems to want power in the hind legs, or weakness ove hing care Has improved in flesh somewhat since taking care
of her and feeds well. What is the best treatment in this case?
The symptoms you have mentioned are indica-
tive of general debility, arising, probably, from an tive of general debility, arising, probably, from an
insufficient supply of nutritive food. It is also quite possible that the animal, being in a weak
condition, may have, in attempting to rise, injured box stall (one with an earthen floor preferred), where she will be protected from the hot rays of
the sun and the cold atmosphere of night. Keep the sun and the cold atmosphere of pight. Keep
the stall clean, well ventilated, and give plenty of
dry bedding. Carefully examine the teeth and see dry beding.
that there is nothing to prevent the proper masti-
cation of food. Give, every morning for two cation of food. Give, every morning for two
weeks, in boiled grain: Bi-carbonateof potassium,
two drachms : and, for the same period, give at
 quarts of bran, powiere neach half a drachm1;
iron and capsum, of en
powdered cinchona, two drachms. Rub over the powdered cinchona, two drachms. Rub over the
loine once a day, nutil the shin becomes quite sore,
the following liniment: Sweet oil, four ounces;
turpentine and strong ammonia, of each two the fentine and strong ammonia, of each two
ounces.
ANSWERED BY DR. Mole, m.R.c.s.s., TORONTO.

schirrus cord, the result of castration. "Quack," Turtle Lake.:-"I had a colt cas
trated last spring. Since that time I have noticed a lump grow as big as a man's int, it breaks every Wo weeks, runs matter do for him? Soereral ot my
healg. What cans' colts are in the same way; one had the
neighbor This cut away, but it almost killed the horse. astration, is a very troublesome and unlooked-for complication, and due in most cases to rough hand ling or dragging upon the cord during, the opera
tion. These tumors give rise to a stiff, straddling gait and the constant discharge of matter; often
grow to an excessive size, one that has been brought grow to an excessive size, one that has been brough
under our notice exceeding ten pounds in weight the spermatic cord will be found in a hardened condition, from which the word "schirrus" is properly attended, when no doubt a good recovery properly attended, wo no great difficulty in the oper-
will ensue. There is
ation to anyone who understands the anatomy of the parts. The details cannot be described, as so many conditions may be present that could not be ecastrate, when all the above conditions as de scribed in sour letter will disappear

## Legal.

arm railway crossings.
James Jounson, Marden :-"A railway company having constructed a farm crossing and placed
guards leading from the gates to the track, for the purpose olong the railway lands by the side of their track, and for the purpose of preventing wagons, etc., from going over the bank, the guards being and useless, is the company bound to repair the guards, etc., and what notice
that the repairs are required?"
When the railway company constructs a farm for the purpose of passing ordriving over the same; and if the guards were necessary in the first place
(as the company must have considered them to be) as the company suppose, just as necessary now. The company must keep the crossings, culverts, as well as all fastenings to the gates, etc., in repair;
and it is the company's own business to ascertain when repairs are required, and consequently you are not required to give them notice.
RIGHTS UNDER LEASE.

George Cousins, Guelph :-" I have rented a farm for seven years, and am oll farm to his wife to take it at his death, and after her death to his children. How would the will affect me? Would I still be entitled to occupy the farm for the unex
pired portion of the seven years?"
Theiwill could not take away any of your rights
under the lease, provided it is properly drawn and under the lease, provided
signed by your landlord.
My mother died, and by her will bequeathed cerThe payments made for the land were from time to time, as they became due, paid to the executo
named in the will, and the moneys were by the executor appropriated to his own use, I being under twenty-one years of age. The executor was
my mother's husband, and he has since married again. What would be my rights, in case of th executor's death, children of the executor, and as against a mortgage of the executor's own property Any moneys received by the executor belonging
to you should be paid to you as directed by your mother's will, and the executor must account for
and pay over these moneys to the parties entitled and pay over these moneys to the parties entitled,
and a judgment may be recovered against the executor; and to satisfy the judgment, of course he has a wife or children or not. As against the
holder of a mortgage on the executor's estate, he rortgagee is to the extent of his mortgage a purchaser or owner of the property, and, conse
quently, if the mortgage is bona fide and the money was actually advanced upon
would be entitled to priority.|

## Miscellaneous.

G. M. : Cow stable constrection.
be allotted to a cow in a properly ventilated winter
.2." "What is the best method of ventilating cow sta "How to huild a cow stable that the walls
may be dry in the coldest weather?" 1
 other for ingress of cool fresh air : the former from a point immedate the latter from a point just
the cross. Thence
above the floor of the barn above, should reach the feed passages. Thus a pherfect current will he
created. As the cold air is heaviest it will all come down the latter, while the hotter and lighter
air will all ascend through the former.
3. Moisture on the inside of walls of any kind in
very cold weather is often due to lack of proper ventilation, in order to keep the stable warm good effect. Proper drainage and eavestroughing has a marked effect in keeping the stable walls and surroundings dry. If stone is used in building,
care should be taken not to have single stones to reach through the entire thickness, as in such a case frost would have a good conductor. If brieks
are used, and built into a hollow wali, moisture will give very little trouble at any time when properly ventilated. Wooden walls having air
spaces seldom become damp. The outside of studs should be boarded and battened; the inside
boarded, then a layer of tar paper, fastened on by boarded, then a lhs in perpendicular lines from top to
nailing on
bottom; then a lining of boards, which will give an bottom; then a lining of board
air space from top to bottom.
C. E. Picket, Andover:- "If young grass and clover seeds are covered lightly with buckwheat spring without injury to the plants?" We would not recommend burning off the ifted in places, and would be damaged by the fire. Recome too full, would be a much safer plan.
feeding frozen turnipg.
M. Lesser, Dog Creek, asks if frozen turinps
re injurious to cattle. Frozen food of any kind is very unsafe to feed to any animal. It it almost certain to produce
scours, and is liable to induce colic and inflam to any animal it is almost certain to produce
scours, and is iable to induce colic and inflam-
mation of the bowels.] mation of the bowels.]
ANSWERED BY J. w. Wheaton, secretary of western ontario dairymen's association. milk ferments.
A patron of a cheese factory asks for the cause
of the "alkaline ferments," or ferments producing the bad flavors in milk. very minute forms of life or micro-organisms, gener ally known by thegeneral name of "Bacteria." They
are now considered to be forms of plant life, and are now considered to be forms of plant ire, an
can only be seen by means of a powerfulmicroscope.
These minute forms of life are in the atmosphere These minute forms of life are in the atmosphere carrion, dirty whey thanks, baddy centilated stables,
etc. They do not trive so well when exposed to pure atmosphere, and consequently thorough aeration of the milk will put it in a condition to with
stand the growth of these germs to a rreat extent stand the growth of nese germs to a gieat exposed
If the atmosphereis not pure where milk is expor
germs will find their way into it. If milking could germs will find their way into it. If milking could
be done so as to exclude the air from the mak, the be done so as to exclude the air from the muk, the
difficulty would, at least, be partially overcome.
Sterilizing has also a marked effect in diminishing Siffuculty would, at least, be partially overishing
Sterilizing has also a marked effect in diminish
the effects of these microbes. Comparatively little the effects of these microbes. Oomparatively littte
is known of hacteria in milk. We only know some-
thing of theireffects and a few counteracting agents as given above.

## DAIRY.

How To Get a Babcock Tester.
Farmers engaged in dairying are finding it absolutely necessary to test their cows for quality of milk as well as quantity. For this purpose nothing equals a four-bottle Babcock Tester, . $\$$. with phette, measuring glass and acid, as a with phette, wery one sending us eighteen new yearly subscribers (accompanied by the cash) to the Farmer's Advocate. One dollar pays from now till the end of 1894. Canvass your neighborhood, and at the fairs, and you can easily secure a "Babcock." No dairyman should be without it.

Quick Churning.
by prof. h. h. dean, o. A. C., guelph. A great many people are anxious to have the
churning done in a few minutes. From ten to fifteen ininutes exhausts the patience of the average
man or woman. I saw an exception to this while man or woman. I saw an exception to this while
mut with the Travelling Dairy in the eastern part out with the Travelling Dairy in the eastern part
of the province in the month of June. As wedrove along over the hills and through almost impassable roads, it being the time to do "road work"" we passed a log house, and on the shady side was a
man and two women. The man was exercising the muscles of his arms in a perpendicular manner, his hands tightly clutching the top end of a dash-
churn. From appearance I should judge that when the man grew tired churning, first one woman and then the other took a turn at it. They had evidently made up their minds to a half-day job, and
did not seem to be at all put out at it. Possibly one was the man's best girl, and in that case he would not object to the churning lasting for a long
time. As a rule, however, the churner wants it to "come quick" and have done with it. Some appar, but our experience goes against this, especially
in hot Queather. The trouble we have had with rapid churning in summer is that the butter is
usually soft, and the churning is not so effectually
done as when a longer time is taken. At present
we take from forty to fifty minutes to churn, and ve a result the butter nearly always comes out o the churn nice and firm and in granular form This, we think, pays us for the extra time taken, ready for market at once, which cannot te done if cause of soft butter is allowing the cream to be ome too warm while it is being collected fo weather. The time required to churn ${ }^{\circ}$ depend
 the cream to about 7ill he the butter. The lower the temperature at which the butter will come in from forty to sixty minutes (or less time) the firme
will the butter be. The right temperature fo churning each churner must find out for himself. From $56^{6}$ to $60^{\circ}$ in summer will be a fair range for most crea
2. The Temperature of the Churn and Room.-
These have quite a marked influence on the time required to churn. The warmer the room (other
thing being equal) the more quickly will the cream hings being equal, may be said of the temperature of the churn. If it is wished to churn at $58^{\circ}$ the churn should. be about that temperature when the
cream is put in. In nearly every case the temperacream is put in. In nearly every case the tempera-
ture rises after churning for some time, due to ture
friction.
rise
3. The Relation Between the Size of the Churn
and the Amount of Creain to be Churned. -The larger the churn, 0 ". the smaller the amount of cream to be churned, the more quickly will the
charning be finished. A box or barrel churn, with out dashers of any
4. The Ripeness of the Cream.-In reference to temperature a few degrees sweet cream may be churned in about the same time as ripe or sour
cream. The loss of butter, however, will be concream. The loss of hater, be effectually churned requires a temperature of from
to one and $a$-half hours to churn.
The Character of the Cream. - Cream from 5. The, Character of the Cream.-Cream from
strippers' milk usually takes a longer time to churn strippers mik msresh cows.
The lesson to be learned is, that it will pay to
take a little more tine at the churning and have it completely churned, and the butter firm and granular when lifted from the churn. Quick
and soft butter nearly always go together.

## Practical Buttermaking

coonald, superintendent experi-
have had occasion to notice many mistakes in buttermaking in the province on duty weil and feel not bring my observations along this line hefore the buttermakers and would-be buttermakers of Manitoba.
Having the equipm
Having the equipment proper for buttermaking,
the first matter to be considered is cleanliness, ever keeping in mind that cleanliness is next to godiliness, and without cleaninesss there can be nothing wholesome nor healthy. If feel that cannot say He is a worthless being who says "anything will
do we don't have to eat it anyway." The buttermaker should exercise woman's pride in being neat aislike for anything greasy-a greasy dishcloth, a yellow strainer. My remarks as I proceed will bring out the terrible mistakes that I have actually seen
and smelled during my tour through the province. setting milk for creaming.
Where a separator is not in use, great care must
be exercised in handling the milk in order to recover all the butterfat. The milk should be properly strained, and set delay of fifteen or twenty
from the cows. A dind Hrom the between milking and setting will cause a
minutes
loss of one per cent., and often one and a-half per cent. of butterfat that will not be recovered, and
will be retained in the skim milk. I have had
 cal ves and pigs butterfat worth 2 cents per pound,
if they are making butter for profit, when there if they are making thater for pront then where there
are cheaper fools that will answer the purpose of
raising a calf, after it has had a start of three weeks in springtime, just as well as butterfat. setting-can the milk must be set at a temperature
of fromin 94 to 93 , the temperature surrounding the





he cream is often censidered by some dairymen as deal of the richness and flavor have gone out of it, caused by a dry atmosphere in the room
The skimming should be done with The skimming should be done with a conical
shaped diper, which is far superior to a perforated
亩 skimmer. The cream when removed from the milk should be placed in a pure, sweet, clean vat or
can to mature before churning. Where the churnang in done everry day, the cream should be set for
inelve hours at a temperature of $68^{\circ}$ to $70^{\circ}$ for
iwer twelve hours at a temperature of 68 to $70^{\circ}$ for
summer buttermaking. When the churning is
and summer buttermaking. a hen the crearn should
done twice or three times a week, the cre be thoroughly mixed for twelve hours before churnnethoroughter that the cream from the different
nays' milk will all be matured alike. If sweet cream days' milk will all be matured alike. If sweet cream be added to the sour just before churning, there what the sweet cream contained. It takes longer to churn sweet cream than it does to churn sour cream, and
when the sour cream butter has broken and when the sour cream far of the sweet cream is till held in suspension in the buttermilk. The temperature of the churning should be 58 or summer and 60 to 6 for winter. The cream straining will do away with white streaks in the butter to a very great extent. The churning hould not last more than fifteen minutes, i.e., the
cream should be in such a condition at such a stage of maturity that the butter will come in fifteen minutes. When the butter appears in the churn as granules about the size of clover seed, the con
tents of the churn should be cooled about $22^{\text {b }}$ by adding ice water, then the churning continued utii the grains of butter are as large as plump
wheat, then the churning is done. I wish to wheat, then the churning is done the winutar
emphasize this: Never churnbutter past thegranhla as stage; keep this alvays in mind as thoroughly as your duty to Heaven.
When the churning is carried so far that the butter is in one solid mass in the churn, the grain,
the texture of the butter, is ruined, and the article is inferior
or. the same quantity of water at a thperaure or dozen rapid turns, and then draw the water off usually one washing is sufficient, but should the
first water appear milky, add ar seond washing.
fit from the churn.
After the butter is thoroughly drained, it ma be taken out ard salted -use
of the best brand. In salting butter just put the salt on and work the ebtiter enough to mix the salt
through it this will take but one or two workings. through it; this will take but one or two workings.
Salt at the rate of three-quarters to one ounce to Salt at the rate orter hee-quarters salt on by guess
the pound of butter. Never put or pou may get "pound for pound", and 1 have often tested butter that had nearly that indication Salt is heavy stuff, but large quantities do not
taste good. Weigh every thing, and test all temperatures with a correct thermometer. (The finger
is is not nearly so sen
is not a safe guide.
is ntter the salt is mixed through the butter, the butter should be placed in a tub or something of that sort, and set aside for four or five hours
nllow the salt to work through it. Never try allow the salt to work through it. Never try the
force the salt into the butter, for in so doing the force the salt inte the butter,
grain of the butter in injured. Now the butter may be again placed epon the worker for the last time.
it should not be worked very much - the best butter It should not be worked very nuch - the best butt is made by teast wot work itby pressure until the color
ruib the but all is uniform and then stop. Perfect butter when
and
hoken down on the trier will break like steel, hav broken down on tearance, and when it is cut throug
ing a grainy apper ing a grainy appearancel and the same color. There
it will be smooth and all on are thousands of pounds
year ly harsh treatment.
acking butter.
When packing butter, learn what sort of a as they desire it. A square brick of butter is always suitable, and neat and tidy in appgianance. These bricks are made by the use of a square printer; they assachy weigh one pound
parchment paper, which can be obtained from anyone dealing in dairy supplies. This paper can be
printed in in printed in nice letters, with the name of the evar
or dairy on it. It preserves the butter in every respect, the air is excluded, and I have seen butter
kept in this paper fully as good as it was in tubs. The pound package is just the size that a family
in a city would want to buy at a time in order to have fresh butter on the tatle every time, and any
one would pay more for butter put un in that wh than they would for butter that has been dragged out of a tuh and has a mangle a appearance.
Avoid putting butter up in fancy, funny little packages: they do not please the eye of the con-
sumer any too well, and besiles it takes too much Working and will make the butter greass. Whic article that they will thake it eannestly and mend the ir ways, if there is bad butter made in
Nanitola it is wholly the faut of the buttermaker. anirying ate "oqual to any in the Dominion of


## Points in Dairy Practice.

Two of the most important items of a cow's diet are an abundance of good, elear, whoresome water ave full access to both.

These alleged dairy experts who are taking such painsto the with the quality of milk, are incul oting eor dorine that will work serious mishgief if acted updn. Said a milkman to the
mriter recently :-"Within a day or so after 1 begio writer recently :-". Within a day or so after 1 begin
of feed my cows certain watery foods, my customers fee to complain about the quality of the milk, eegin to complain about charged me with watering
and some have actually
in it." No greater nonsense was ever talked th
food does not influence the quality of milk.

Robert McAdam, of Rome, N. Y., Writes:Three years ago an old friend of mine, Mr. Hugh me that he had learned of an almost certain cure for milk fever, if taken in time, viz. : Haif pound very two hours, as soon as milk secretion is seen o fall, and continued nenc in is restred.',
the most implicit contidence in Mr. Taylor's statement. He supplies several thousand (late calving) cows annualiy to cow-keepers io large eities, and hhat was once a dread and heavy loss to him, is now only trifling from the use of carbonate of soda.
The Dairymen's Association of Western Ontario in their territory, to inspect the milk, and give instructions in making inst-classer of factories have eeen visited, and reported to be gradually improving in the quality of the milk, due, no doubt, to the never-failing detective-the Babcock Tester. A
number of patrons who ventured a step beyond comberousness, by skimming, stripping, or adding water, when questioned about their crookedness, acknowledged their faults and paid the penalties of in the quality of cheese made. The dairy school work and the system of travelling instructors are tending to bring about uniformity in the different
There are some makers who are loth to docalt new ideas that would have a tendency to de tain their work a little later in the day. We regret to see this slackness, as the quality of their
cheese would, in spme instances, be raised a grade or two.
can be bullut up.
There is one decided advantage in dairying,
whether in the form of making butter on the farm or of selling the milk or cream to a creamery, and that is, the business can be commenced on a very small scale at first, and then be gradually built up as the profits and experiences warrant. farmer to
exceptional case when it will warrant the fatm make a radical change in his plan of work. With nake asias as with fruit growing, the better plan is
dairying into it rather than go into it. There i
o o grow int can be learned from others-the feed and care of the cows, milk and cream-but only
what may be considered in a general way. The details as best suited to your condition can best be earned by experience, and in nearry yan cases
be more economical to get this experience on small scale at first and thus profit by it whe branching out, No matter how went, either with
derstand the theory of management, ters cows, milk or butter, there are many little
details of management that must be learned that can only be learned by experience, and in a majorit are the ones that commenced in a small way and
are gradually worked up as their business warranted Understand thoroughly how to manage a few cow then it will be much easier to succeed with a larger number. In many localities, one of the chief cause
of failures with creameries is commencing the business tharge a scale before the farmer know or understand what is required. Be sure of your position, and the
|Creanery and Dairy.

Branding American Cheese
It has in the past been a practice to ship Amer can cheese to Britain by way tr Ganada, antan which Canadian cheese has won by its excellence. The Customs department have now under
supervision the branding of United States chees passing through Canada in bond. So far, we hav heryh at first there was a little grumbling an irritation on the part of some of the shippers.

Dairy Exhibits for Chicago.
The exhibits of cheese and butter from Canada
the Worlds Fair, in October, are likely to be very large and we trust excellent. The magnificent sticess which attended then and private dairy-
has stirred
up factorymem inion to take a more active interest in the closing competition. Appli-
aitions ations for address labels and entry fornus are-
conning in to the Diry Commissioner and his repcoming in to the largry
resentatives in large numbers every day.

THE FARMER'S ADVOCATE


The World's Fair.
by mary m. reid, middemarch, ont. In writing about the World's Fair. the chief
rouble will be to sufficiently condense, and yet leare interesting an account of what was seen in
the six days spent there. When there is os much that seems worthy of note it is hard to determine
what will be of most interest to the public, but as it is those who have not yet visited the "Fair" shall try to mention briefly such exhibits as we shall try to mention briefy such
think will ive a oood dea of the
of the contents of each building.
The buildings themselves and their surroundings charms of the whole. Their coloring, their architecture, the frescoes and sculpture with which they,
are adorned, make them each " a thing of beauty, are adorned, make them each "a thing of beauty,"
while their grouping, combined with their surroundings, greatly enhances the effect II cannot take time to describe all the buildings, but must be allowed to say a few words regarding
the Administration building, which is pre-eminently the Administration building, which ex pre-eminenty
the most beautiful. Viewed externally it in an
it ideal of strength and symmedryy. with its massive
hase, its graceful dome, and its rich and varied hase, its graceful dome, and its, rich and varied
ornamentation of pillar and sculpture. Its interior is equally impressive. As the eye travels upward some two hundred and fifty feet to the centre of
the great dome, we notice in large medallions the great dome, we notice in large
encircling the rotunda the names or all the countries represented at this
exposition. Above them is a series of panels, on which is recorded the date of important inventions and discov-
eries, such as the invention of the eries, such as the invention of the
steam engine, the discovery of the laws
sof of gravitation, the invention of the
electric telegraph, etc. Beyond these electric telegraph, etc. Beyond these
again are given the names of great discoverers and inventors, while thepainting on the dome surmounting all is science. The view from the eastern passed on the grounds. Directly in
iont is the statue of Columbus; befront is the statue of Columbus; be-
yond it lies the great basin, at the entrance of which is the famous MacMonnies fountain, one hundred and fifty feet in diameter, flanked on either night throw up to a great height hundreds of jets of many colored waters. At the eastern extremity of the basin figure sixty-five feet high, and beyond tigure sixty-five feet high, and beyond
it the lofty columns of the Peristle,
surmounted by the "Columbus Quadriga," a group of statuary representing
(olumbus being honored by his countrymen on his return from his first The first building visited was that of the Ma the largest and most varied on the grounds. Here are collected, from the different countries of the world, articles manufactured from an aimos variety of objects. In the very centre of the building stands the "Columbian Clock Tower," rising to a height of one hundred ander, facing each of the four main entrances, and it shows the day of the month, the hour, minute and second. In this
building each country's exhibit is in a separate pavilion, and as a medal was offered to the country pavilion, and as ast attractive display, all of these
making the most making the fine, some of them very imposing. In
pavilions are fine
Great Britain's section were shown very old tapestry, and beautiful carpets and rugs, also old substantial but rather gloomy-looking. In pleas ing contrast were the modern brass beds, biticed a and gracefully draped. Nere, too, we some of it
great display of china and porcelain,
said to belong to Her Majesty, a reproduction of gread to belong to Her Majesty, a reproduction of
the noted Jubilee vase, and a clock showing the the noted Jubilee vase, Madrid and Chicago. time in London, Paris, Madrid
Germany shows some handsomely furnished rooms, tapestries (including the famous Gobelin
tapestry), stained glass (said to be the finest in the world,, statues, etc. One group of statuary, "Gerings, was loaned hy the Emperor.
France, too, shows beatifully furnished rooms, tapestries, costumes designed by Worth, vases and
statuary. Russia shows court costumes that rival statuary. Russia shows court costumes that rival
those of Paris, costly furs and tapestries. A parlo suite in this pavilion is unique. The the fur of the
rests are horns, and the covering is the rests are horns, and the covering is the farts and
seal. A pattern is produced by dying part
leaving the rest uncolored. Austria exhibits rich brocades, beautiful porcelain and Bohemian glass
ware. Belgium displays lamps and fancy stands, in

## 'china and gold, that sur the kind in the building.

Japan has a very large exhibit of chine saw of vases of all sizes, of wood and ivory carvings, silks,
muslins and embroidered scr eens and robes that are marvels of beauty and skill. A large iron eagle, each feather of which is said to be made separately,
also attracts considerable attention. Ceylon has a also attracts considerable atcention. ceylontifus
pavilion built of their choicest woods beautily
carved. Their exhibit also contains fine specimens carved. Their exhibit also contains ffine specimens
of carving in wood and iron. They show a large of carving in wood and iron. They show a large
collection of native curiosities, and, of course,
tea and coffee. The former is served in their collection of native curio
tea and coffee. The form
pavilion by native waiters.
pavilion by native waiters.
Cape Colony has a characteristic display of
ostrich feathers and ivory. One tusk is said to be ostrich feathers
valued at $\$ 1,30$.
The United States makes an extensive display in this building, their exhibit including specimens
of all the many classes of manufacture carried on of all the many
in that country
Among the most interesting of Canada's ex-
hibits is a large collection of Indian curiosities. Her display of manufactured articles is gooial mention, comprising, as it does, photograph of buildings, and specimens of work from her
public and high schools, collegiate institutes unipublic and high schools, collegiate institutes uni schools and mechanics' institutes. There is, too, a very interesting exhibit of the work of the pupils
in the school for the blind, Brantford, and also a ine display of work done by pupils of Indian schools The Singer Sewing Machine Company have an exhibit worth seeing. They show two rooms,
dining-room and bed-room, all the furnishings of dining-room and bed-room, all the furnishings o
which, including the tapestries, were"made on their machine.
Machinery Hall is another very interesting building. Here can be seen the different processes
employed in manufacturing many articles. It is

the administration building. excepting that in
open to the public.
interesting to watch the weaving of silk in pat-
terns of carpets, of cotton and woollen goods. terns of carpets, of cotton and woollen goods.
Here, too, we see paper manfactured and the printing press doing its work, even to the folding
of the papers. Near the modern press stands the oldest printing press of America-151 years old. Of course, we carry away and carefuly preserve the
advertisement that is handed to us, because we saw
them printing it with this old hand press. We look them printing it with this old hand press. We look
with interest at a sewing machine which can be wound up to run for some time, thus leaving the operator nothing to do but guide the seam. Quite
as interesting is a carpet sewing machine. The as interesting is a carpet sewing machine. The
two pieces to be sewed together are placed on the two pieces to be sewed together are placed on the
top of each other on a long table, their edges even
with the edge of the table. with the edge of the table. The operator is on a
bicycle that has fastened to it an attachment that is to do the sewing, and he operates this as he rides is to do the sewing, and he operates this as he rides
along. He says he can sew thirty yards in four
minutes. What woman will not be willing to let him do it ? From Machinery Hall we pass to the Agricul-
tural Building one of the most interesting of the buildings. Here Canada makes a particularly fine
display; without being considered partial, we display; without being considered partial, we
think we may say that her pavilion is one of the think we may say that her pavilion is one of the
most striking in the building. The grains and grasses of which it is composed are most artistic-
ally arranged, and Canadians may well be proud to see their national emblems surmounting it. Of
course, the cheese is the biggest thing shown, but there is besides an exhibit of agricultural products
that must dispel the illusion that Canada produces that must dispel the illusion that Canada produces
little but cheese, or that it is, as others believe, a land of almost perpetual frost and snow. One
thing that makes this building so attractive is that in many cases the pavilions themselves show the staple products orn palace ; New South Wales is
Iowa shows a corn palt Ilinois of corn and other grains.
made of wool, Cape of Good Hope shows wool, ostrich-feathers
and elephant tusks. One tusk is said to be seven
and one-half feet long and to weigh 190 pounds.

Washington shows, in minature, a western farm,
farm house, barn, fields, with plows, self-binder farm hose, thareshing machine at work. Pennsylvania has a "Liberty Bell", made of grains. To digress,
how much the Americans make of their Bell how much the Americans make of their Ben!
There is the original to be seen in the Pennsylvania There is the originane we seen in the Pennsylvania made of oranges on the Horticultural Building, and
fac-similes of it made of glass are for sale the fac-similes of it made of glass are for sale at the
glass works. All the European countries make large exhibits in this building.
Foom here it is not far down to the Dairy
Building, in which, besides the exhibit of all dairy products, can be seen the workings of
the model dairy. The process of butterthe model dairy, The process of butter-
making, as explained to us by a Nebraskan making, as explained to us by a Nebraskan
exhibitor, is similar to that employed by our travelling dairies. The Stock Yards are near here, too, but the stock was not in when we were there.
excepting that in the Dairy Barns, which are not

In this south-eastern corner of the grounds is
found the Anthropological building, which, as its name indicates, is devoted to man and his as its When, on entering the building, we found ourselves confronted by a colossal mammoth, surrounded by rather surprised, and doubted the appropriateness of the name given to the building, but on further examination learned that many of these were really the work of our enterprizing neighbors
across the line exact representations of animals now extinct. The objects collected are as interesting as they are numerous. Particularly interesting is the large display of relics of the North American Indians-numberless idols, rudely-fashioned ves-
sels of earth and stone, articles of dress, old canoes, and many other curiously constructod objects.
One old chief, whose head-dress of feathers extenOne old chief, whose head-dress of feathers extended down his back until it rested on the floor, wore
a garment fringed with 700 scalps-his trophies in war. An Indian princess worea neck-
lace composed of 1,500 elk teeth, reprelace composed of 1,500 elk teeth, repre-
senting the slaughter of 750 elks. To
further illustrate their habits, they further illustrate their habits, they
have Indians living in wigwams and
huts on the grounds. They are dressed huts on the grounds. They are dressed in native costume and make baskets
and bead-work, which they are quite willing to sell to visitors. Most of the
countries of the world have large ex-
cibiter hibits in this building. The casts of ing. To this exlibithor beongs theViking
ship, lying at anchor near. Across from this building is the
Forestry building. No iron has been Fored in the construction of this rustic palace, wooden pins taking the place
of bolts and nails. The sidings are slabs and the roof bark, while the pillars, supporting the verandahs that
run all around the building are the trunks of trees in their natural state
and represent the forests of the various countries and states. California shows here a red wood plank, sixteen feet long
and twelve feet wide, said to be the largest plank in the world. She has also a good display of native woods, as
indeed all the states and countries
have. The specimens of ebony-wood, osewood, mahogany, olive wood, \&c.; are very
ne. Canada, too, has a fine exhibit in this fine. Can
building. Adjoining this is the Leather Building, in which are shown leathers of all kinds, among them an and to have taken two years in tanning. Buots
nd shoes, trunks, valises, and all articles made of and shoes, trunks, valises, and all articles made of
leather, are shown here. The machines in the leather, are shown here. The machines in the of shoes daily. But the most interesting exhibit
here is the collection of shoes of all nations. home are very curious. The Greek shoe showing the foot, the Turk's with narrow pointed toe, the Tartar's with long iron hooks on the sole to use in
climbing the mountains, the heavy fur-lined boots climbing the mountains, the heavy fur-lined boots
of Russia and Sweden, the flat leather sandals worn of Russia And sweden, those of Palestine roughly made of skins, fancy gold-spangled slippers from India
and Tartary, sandals worn in Japan to save the and Tartary, sandals worn in Japan to save the
turf (suppose they have no signs "keep of the grass"), wooden shoes, raised two or three inches
rom the ground, worn in Corea, an infant's shoe from the ground, worn in Corea, an infant's shoe
made in the U.S. in 1765 (we pity the baby feet that made in the U.S. in 1765 (wepity the baby feet that wore ane early date. These and many more make a
collection well worth seeing. A crazy-work drape ollection well worth seeing. A crazy-work drape
of fine, many-colored leathers was also shown. of fine, many-colored leathers was also shown. part of the grounds, we return to the Court- of
Honor and enter the Electricity Building. Here Honor and enter the Electricity Building. Here
we see much to admire, but very little that we we see much to admire, but very little that we
really understand. However, there is something very fascinating in this exhibit. You will not soon
ire of seeing what is being done, even if how it is done is beyond your comprehension. The tower of light and the revolving globe of prismatic lights
attract the attention, and if they will at least dazzle you.
From this building we pass into the Mines and From this building we pass into the Mines and
Mining Building. Here again Canada is conspicuOus. She shows specimens of almost all the ores.
Ontario's oxhibit includes fine specimens of marble

| and granite, copper and silver ore, asbestos and |
| :--- | :--- |
| a coarse nickel. She shows a piece of nickle ore |
| ore |
| weighing six tons, and an ing | \(\begin{aligned} \& St. Lawrence. Russia, Norway, Sweden and Hol- <br>

\& land make large exhibits of cured fish.\end{aligned}\) weighing six tons, and an ingot of nickel weighing
4,500 pounds, and valued at $\$ 2,250$. Iowa shows a 4,500 pounds, and valued at $\$ 2,250$. Iowa shows a
coál mine with miners at work, and New Mexico a coál mine with miners at work, and New Mexico a
model of a miner's cabin. The petrified wood shown by Arizona is very beautiful, and takes a
fine polish. All the foreign countries make tine displays, Cape Colony showing a very large collec-


From here we go to the Transportation Building,
heonly colored building in the group, and one of the most beautiful. The arches that form, the grand portal are overlaid with gold-leaf and surmounted with beautifully carved figures. On one side of the en-
trance isdepicted the rudely-made vehicle of the past, drawn by oxen, and on the opposite side the lux-
urious railway coach of to-day. Within are shown, either by specimen or model, the various conveyances used in ancient and modern times by the different nations of the earth. Very striking is the contrast between the old sailing vessei and the
present steamship, the first railway trains and
those now in use. The C. P. R. shows a train of cars finished in mahogany, finely upholstered, and lighted by electricity. The Pullman cars on exhi-
bition seem like a succession of beautifully fur-
nished parlors. Many fine models are shown, bition seem like a succession of beautifully fur-
nished parlors. Many fine models are shown,
among them one, 30 feet long, of the ill-fated nanamong them one,
of-war, Victoria, the Neet Nicargagua canal with water
in it, and one of the Forth bridge, 20 feet in length.
We next enter the Horticultural Building. Here in the central dome is a miniature mountain, its
sides covered with plants and shrubs, among which a stream of water makes its way down, while under
the mountain is a large cave. All kinds of tropical plants can be seen here; palms of many varieties,
tree-ferns under which you can walk with ease, orange rees bearing fruit, bananas, pine-apples, read but now see for the first time. T
of fruit, natural and preserved, from of fruit, natural and preserved, from
the different countries are also shown the diferent countries are also shown
here. Of course there is also a large
exhibit of plants and flowers outside, in the adjoining grounds and on Woodand contains some sixteen acres. The Children's Building is near here,
and is worth visiting. In it is shown everything likely to amuse or instruct everything likely to amuse or instruct
children, and also the work of the children in various schools. Here, too, garten, the moulding room and the gymnasium, while in the creches very young children are taken care of while
their mothers are at the Fair. But the most interesting room is the one where chitdren who have been born deal are
taught to talk. Here, by watching and taught to talk. Here, by watching and feeling the movements of the vocal
organs of their teacher, they are taught to articulate distinctly Just beside this building is the
Woman's Building. The exhibit here is interesting. chiefly because it is woman's work, showing, as it does,
the many departments of labor in the many departments of labor in
which she is engaged, and the excellency of the work done in all. The
building itself was designed. by building itself was designed. by a
woman. Its marble fountain, its stawoman. Its marble fountain, its stacuary its paintings, and all the work exhibited in
it are the work of women. We need not attempt to describe the exhibit, as it covers much the same
ground as the department of Liberal Arts, of Fine ground as the department of Not far from the Woman's Building is the one
devoted to Fine Arts. It will be impossible in this devoted to ment of the pictures displayed in those long, galleries., In Canada's section we of course noticed Read's, "The Forectosure of the
Mortgane,"which hassince been awarded a diploma;
"The Visit of the Clock-Naker," by the same is very natural. We remember having oftems seen,
just as it is shown in the picture, the old man with just as it is shown in the picture, the old man with
the works of a clock scattered around him on the
ter ane lenetian Bather," by the late Paul tabel " Ts another that attracts attention.
Peel,
Russia exhibits five or si luge Rusian exhibits five or six large paintings, re-
presenting scenes in the life of columbus, the
coloring of which is very fine. In the British sec presenting scenes in the life of Columbus, the
coloring of which is very fine. In the British sec-
tion. . The Forging of the Anchor" and . The Passing of Arthur, are pictures one will not soon forget. Japan shows at large number of pic-
tures: some are painted and others worked in
silk, with st iches so fine that it really silk, with stiches so fine that it really looks like
puntin. She also shows here three vases, each
eight feet in heicht and valued at eight to have taken thirty men three vears to make them. This buidding also contains large exhibits
of monpture, casts, nodelse ete
From here we go to the Fisheries Building. wheremere collected hoth fresh Pisheries Building, from all parts of the world. Some of them are
very valuable, so much sot hat hospital, with
doctors in attendance, is established in the buidd ing and here the sick fish are brought to be treated.
In the centre is a large fountain. containing a great In the centre is a large fountain. contaning a great
number of fish of arions kinds. The tanks are in number of fish of varions ands.
the wallo, and the fish ant easily beeen at you
walk along. It is very interesting to watch the
 the U. S. Government Building. All the different departments of the government have very large
exhibits here; and besides, there are shown speciexhibits here; and besides, there are shown speci-
mens from nearly all the departments of the Exposition This is interesting, as showing collec-
tively the various products of tively the various products of the U. S.
In a short visit to the Fair one cannot spend In a short visit to the Fair one cannot spend take a walk among them. Most of the states have fine buildings, and those of foreign countries are
specially interesting, displaying as they do their specially interesting, displaying as they do their
native architecture. Many of them contain exhibits of their products and manufactures, and by leisurely walking through them you get a good idea
of the general resources of each country. of the general resources of each country.
We have heard Canada's Building spok paragingly, but think it answers very well the purpose for which it was designed. It contains no exappearance, has comfortable parlors, the necessary offices for each province, reading-rooms, etc., while
placards in the halls locate her exhibit in each department. Of course, a visit to the Fair would be incom-
plete if it did not include a day on the Midway Tarks, Per Here you may see yots, Jans, Chines Hawaians, Bedouins, Dahomeyans and Cannibals from the South Sea Islands, all living and dressing
in native style. The Ferris Wheel is one of the popular attractions of the Plaisance. As it slowly revolves, the passengers ascend 250 feet. The ice
railway seems to be well patronized, probably by railway seems to be well patronized, probably by
those who have never before had the chance to have a sleigh ride. In the Japanese, the Turkish and the East Indian Bazaiars, native goods in great
variety are offered for sale. The Street of Cairo is as amusing as interesting, with its foreign-laoking
the Javanese village.
cessions, and its noisy Egyptians, crying out their
wares, In the Liblby Glass Works vou can watcl he workmen making many of orks different watch hown, and can also see them manufacturing it in-
 cut as I fear this is already too long, I shall now wese. Before doing so. I would like to say, that
we anatians, have certainly reason to be proud of the exhibits made in the different departments wy our conntry, and purticularly by Ontario. That more populous contriess should surely encourage
us to go forward and develop to the utmost the

Enormous Search-Lights.
$\square$ aid the poet, byt if he had lived to veat the" expatiated upon that also. This gisanicht have hight is fitted with a reflecting lensmirror mixty ensity of 3 s.s., (non, why candle-power. The largest



 formords the largest in the world, has a capacity of


IIINNIE MAY'S DEPARTMENT.

## My Dear Nieces :

In a few short weeks the great Columbian
Exposition will be a thing of the xposition will be a thing of the past, leaving however, many broadened views and happy memor great White City. Those of you who have not yet done so, I would urge to make every effort in your
power to spend a few days at least within its gates puch an opportunity will never we within your reach again durting this generation, and, now that
railway fares are reduced (with a prospect of heing railway fares are reduced (with a prospect of being
lower still), by careful management the trip need lower stal), by careful management the trip need ways, but by all means visit the Fair, for it will
furnish vou with food for pleasant and protitable furnish you with food for pleasant and profitable
thoughts for many months to come, and give you a clearer idea of the thought and ad vancement of the nations than you can gather by much reading If you ask me what impressed me most, I can but
answer: The immensity of it all, the lofty desion and the accurate execution. One cannot but be struck with the order which prevails on every side,
it being quite possible for ladies to go alone without it being quite possible for ladies to go alone without least, such proved our experience during a recent Apart from thi
interested in strange people, in foreign people and their ways, so that we paid two or three visits
to some places and streets in the Midway Plaisince. Here one is apt to forget that one is really in Ame one is apt to forget that one is really in
America, there are so many Egyptians, Hindoos,
Cingalese and Wild Arabs in swathe Cingalese and Wiad Arabs in swathed heads,
Soudanese, Algerians, Persians and Dahomengen Soudanese, Algerians, Persians and Dahomeyans,
and in such great numbers-the place is alive with and in such great numbers-the place is alive with
foreingers in queer dress and living after their own peculiar custom. In the streets of Cairo alone
there are three hundred and fifteen-is it not Cair ee hundred and fifteen-is it not cairo
and to the fashion of themgh the walls
are artificial, - Pe $\begin{aligned} & \text { yet they are built on the exact model } \\ & \text { of the real. A street in Cairo. with } \\ & \text { its donkey rides, its camel rides, of } \\ & \text { which you are , }\end{aligned}$ which you are, given a perfect, of de-
scription in this number, its confused scription in this number, its confused,
shouting, noisy, good-natured crowd,
cannot fail to interest. Here, as well as in the streets of Constantinople, we were much amused with the natives
disposing of their wares and display. ing to the best advantage their few
English phrases. English phrases.
Plaisance that so interested us as the Javanese Village, where the habits
and customs of these people are tully and customs of these people are fully
exemplified and their everyday life exemplified and their everyday life
faithfully portrayed. In this village there are one hundred and twentyfive from the Island of Java living in
prettily shaped houses, as you will
observe in our illustration, made of observe in our illustration, made of
bamboo of various colors. They are
a gentle-voiced people, with merry, a gentle-voiced people, with merry,
laughing eyes. ready to converse, or Try to do so, with all who come along. fiful; some of them wear is not beaubut the majority wear sandals which


In the centre of the village you will notice a
larger house, whe ur sat and rested and sipped a d delicious con of reat Java coffee. It was so enjoyable to sit there seeing
and hearing these queer folks-not enjoyable to hear their music though, for of all the hideous, unearthly soundsit wastheworst, and this wassupposed
to be a drawing card and so was placed near the entrance. I fancy it may have kept many out, as the village was fairly empty, fortunately for us. We made the acquaintance of a little girl
who calls herself Maud in the meantime. How she would laugh, and how pretty she was bedecked in her own peculiar costume, and was bedecked a huge
silver American watch and a paste diamond ring silver American watch and a paste diamond ring-
new toys which pleased her. She could not tell the new toys which pleased her. She could not tell the
time. but was willing and proud to learn how.

The best place to say good-bye and to take leave Honor, where, looking upon a group of buildings arrangements, and down the great basm and upon ue Peristyle with its magnificent columns being is filled with delight. And later, when all the heauity of the night's illumination flashes out, and
the beading of light runs up the golden Administration dome, around every white roof, and about the dark water basin, while the electric fount-
ains flath their jets in green, purple, crimson. gold and green again, a kaleidoscope of color in the air,
and over all the great search lights thrown upon
the siff He different gooups of statuary, and at last resting
upon the heantiful statue of the Republic. one is
hrilled with the visien of on thrilled with the visien of enchanting beant y-
P.s. Mimie May offers a prize of \$5.ill for the hest original Christmas Story-not to exceed one
page in length. All communications to be in: our

Fun on a Camel's Back comedian of cairo street IT THE Did you ever ride a camel:
His getting up is like not His getting up is like nothing else under the sun.
When he lies down, the man on his padded When he lies down, the man on his padded back
feels as though he were on the roof of a collapsing house, as though the structure was teeterings and
going to pieces. It is the wonder of a day how a on a mat, can untie his lank and limber parts and get to his feet once more The camel is the comedian of Cairo street in
Midway Plaisance. He keeps the sunny street


The frest conprion.
in a bubble of excitement and laughter. The best
part of it is that, like a true comedian, he never part of it is that, like a true comedian, he never
enters into the fun. He seldom opens his eyes, enters into the fun. He seldom opens his eyes,
and he never ceases that lorg. awk ward swing of
his lower jaw. While he is tipping people into all sorts of frantic attitudes, causing women to shriek,

he always maintains that slow and homely dignity which is natural and not acquired.
Great is the camel. He has made a hit at the $\underset{\text { Exposition. }}{\text { the camel on his native sands. }}$ In Egypt a camel is worth from $\$ 00$ to $\$ 75$, but faded and rickety. At points where sheef-worn

angular he is lumpy, his hair is worn off in patchess
of square feet, and no one can count the joints of his tremulous legs. If anything is needed to saddle of carpet and cheap ornaments. This is fastened over the lean and irregular ridge of his back
by numerous straps. His long and mournful head is
 is found in cairo a inghto friphten children ath
tempt stont women toreckloco feate.


riders dash through the halting crowds followed and the pattering tom-toms assist in the hurrah All Cairo is shouting, jabbering, offering wares
The holiday is perpetual. He who gets into it The holiday is perpetual. He who gets into it
feels a sudden desire to be a part of the hurrah to
ride a camel. ride a camel.
And so the
And so the lumbering ships of the desert are
kept on the move all day. It costs 25 cents to

to the end of a street and back. In
camel pays for itself more than once
The drivers are large black once. gowns and twisted turbans. They are strong and
willing men, too. One of them will grass woman around the waist and lift her on the haddle sate
as though he were handling a sack of rice. If she as though he were handling a sack of rice, If she
loses her hat and shows a desire to fall off, as the camel weaves and staggers in rising, he grasps her
firmly by the ankles, and, in a volley of hot Egyp tian, begs her to keep cool, ind lean back. Although
he has seen people camels for a great many years, he enjoys it as much grany one, ror he wears a broad an sympathet
grin. Every moment or so, just to keep the beast
rom going utterly to sleep, he whacks it with his stick like a man beating carpet, and says some thing, to which the came pays no attention
made sport for the crowd.
The camels were sprawled on the mats one da
when a young man and a back ward girl approache one of the drivers and began to parley. Then the there an hour just looking on and having a good time crowded a little closer and prepared for anothe the saddle ever slipped, if the camel was tame, and
if there was any daner Of course the driver if there was any danger. Of course the driver
knew his business and said they would enjoy themselves. Will he bite"."asked the girl, when the came shifted his long and sinewy neek toward her.
" Noa bite good camel," cid the driver put the yellow tickets in his mont hand reached for the young woman. She was a trifle pale and glanced at her escort with a weak smile, as the
dusky man in the gown lifted her to the saddle and showed her how to hold on. The young man showed her how to hold ond evidently bored by
laughing in nervo way and eq and
the gaze of the rrowil, climbed up behind her, and, re gaze of the crowd, climbed up behind her, and
reaching around her waist. took a death grip on reaching aromd her waist. Wod deather took at good long
the rope hand hold. The driver
look on both sides to see that the two were fast ened look on both sides to see that the two were fastened
all right. This seemed to excite suspicion in th all right. This seemed to excrite suspicion in the
mind of the young woman, who had ceased to smile. and was a triftc paler than before. them. It was too late whergin asking questions The driver was tugging at the halter and thumping
the camel over the neek with his stick. It first the camel merely show his had in drowsy protest:
then all of :a sudden his himd-quarters began to lift. then all of: sudden his hind-quartersthogan he was
They kept on lifting. It sumed as hongh he using one end at a time. The young man wat
tilted forward on the sirl. Both threatened th slide over the sadde and down the sloping neck to
the ground below. The pirls hat fellower her eye
and she screamed. but she knew ennugh to keep a tight hold and lean back.
is thew clung to thi- teep incline, the camel



ropes. As it was, both plunged forward and the
young woman let out a third scream. The young young woman let out a third scream. The youn reassure her. But it was all over. The camel had
shaken the kinks out of all his legs. turning around with a wabbling motion like slowly caught in a trough of waves. The young woman
had recovered her hat, and from fright she had had recovered giggle, the young man frigsitsting hal this timethe men and women who stood around had been yelling and tittering with glee and saying to
each other: "Well, did you ever?",
THE UNLOADING PROCES

Then they waited to see them come back and unload, for that is half the fun. Usually the ride akes kindy to the trip down the street. To b always on the point of falling down, but the sen sations are mild compared with the shake-up of Whater finally settles in complete repose on the dirty batting and waits for another cargo of strangers.

## Mollie's Problem

Theres lot of things I cannot understann
Mr Really makes no matter how lty,
One"s why the brown cones on my little han
Because the sun is hot up in the sky
I never underst ood why birds cat worms
I Anstead of pieand pand ping full of pluta
Or why big boss are fraid of little sums.
caunot understand why doggies bark


But puzzling hest of hate hal ho thinings like lititle flies,
Is why grand
n Kendrick Banps, in Harper's Young People Fashion Notes.
Women lay aside, without a sigh, the light and more comfortable wraps of early autumn th new material, are in endless variety. Homespun are still favorites for costume cloths, but their ex-
treme weight being an objection to many, tighter makes are offered this season. Hop-sacking is to
me the front again in every variety, even to shaded surface. Fulness in sleeves, skirts, overgarment
and flounces is a characteristic of the season, and very deep flounces take the place of several narrow nos; but no short woman must wear those deep There is nothing positively new in cut or shape all sorts of dresses are worn, from the empire gowi to the reformed dress, and the sensible woman wil Nht, that they yeare as dassess and find to her de
lighle as cver thi winter. Perhaps a new neek-band or cuffs can be Bright flowers always are worn on hats and
bonnets in early autumn and blossoms seem to be preferred, judiciously mixed with black lace which is alwayssuftening The empire cape, tight-fitting basque, the favorite

- blazer" and semi-long cloak are blazer" and semi-long cloak are all to be seen
among the latest imported goods, and all peculiar looking or eccentric garments are conspicuous


Nan-afrad-of the-soap (as member of Army
Winclec corps dashes by) Much lazy sojer. Walk sittin down; 「gh!

The Courtesy of Love Which is a false idea aftoat in the stream of life, they will forgive every back of we love them this in absolutely untrue; the closer two people are for then to observe every law of politenessary is it
 who love you. Lown in a fown that modhe porntant tow tong in the glating minn of indifereglewted, of in the

## THE QUIET HOUR

## Ejaculatory Prayer. <br> Ejaculatory Prayer.

"Ejaculatory prayer is prayer darted up from the heart to God, not at stated intervals, but in the The word "ejaculatory" is derived from the Latin word for a dart or arrow, and there is an idea in it which one would be loath indeed to forfeit. Imagine an English archer, strolling through forest in the old times of Crecy and Agincourt. bird rises in the brushwood under his feet, he its full stretch, and sends the shaft after the bird with the speed of lightning. Scarcely an instant elapses before the prey is at his feet. It has been struck with unerring aim in the critical part, and drops on the instant. Very similar in the spiritual Whristian catches suddenly a glimpse of some blessing, a longing after which is induced by the circumstances into which he is thrown. As the archer first draws the bow in towards himself, so the Christian retires by a momentary act of recollection into his own mind, and there realizes the presence of God. Then he launches one short, fervent petition into the ear of that awful presence, throwdone! The blessing descends, overtaken, pierced fetched down from the vault of Heaven by the winged arrow of prayer. Do you require Scriptural proof that such immediate answers are occasionally vouchsafed, even as regards mere earthly blessings? Nehemiah, the cup bearer,
stood with a sad countenance before Artaxerxes the king. The king seemed offended by his sadness, "so he was very sore afraid," having a large request to make, which might seem extravagant and presumptuous. The cub-bearer was in a great strait. What did he do: He entered into the closet of his heart, and shut his door, and prayed to his Father which was in secret. "I prayed," says he, manysecondscan elapse between a question in conversation and the answer to it : it is hardly conceivable that he can have said more mentally than "Lord, help me according to my need," but then he said it with such an entire faith that God rould help him, that it was as successful as if he had spent a whole night in prayer. He candidly explained his wishes, and down came the
blessing immediately. The king illuminated Gondolas, elect kici filled with happy parties - upon whicm launches took the request very graciously, and the all-impor tant crisis for Nehemiah and for the city of his fathers passed off well. One short act of the mind, one strong shaft of praver, hat won the restoration
" More things are wrought by prayer



"But ejaculatory prayer is to be used not simply in difficulties, and when our affairs are in a critical posture, but from time to time all along the
course of the day. Look from without upon the Christians life. and yon will see foress occupations and cmployments, many of which, it may be call mind's surface there is an undercurrent, a golden thread of prayer, always there, though often
latent, and frequently rising up to view, not only in stated acts of worhip, but in holy ejaculations.
Like the golden threal in a tissue ii is woven int Like the golden thread in at tissue it is woven into
the texture of the Christians mind extending
through the length amd heallh of his life." The ever-day ares and duties which men call drudgery are the weights and ceunterpoises of the
clock of time, giving its pendulum a true willation


the three ships of columbus.
of masts, details of rigging and extent of sail of of the na val construction department of Spain, are three masts, fitted with strange rigging, There considerable area of canvas. The armament consists of two cannon and six falconets, while the ship, which was fully described by columbus On August 3rd, , 8s!2, the Santa Maria took part in the great Spanish naval review at Palos, commemorafore of 'Columbus' old tracks to the West Indies February llth, in tow of a spanish gunboat, and: together with the Pinta and Nina, formed one of
the most interesting features of he New. York naval display; which preceded the formal opening of the Worlds. Fair

## Inference.

A Savannah drummer says a drummer who has
great many dealings with the Maumen great many dealings with the Maron law yers
went out recently to Rosehill cemetery and ammed himself reading the inseriptions on the
tombstones. He finally came acrosis one that read - Here lies a lawyer and an honest man." Turning
tolis friend, he said, "Bill, what made them bury
those two fellows in the same srave." A sleeper is one who sleeps. A steeper is that which the sleeper which in ilfeper is that ol in slews runs. Therefore, while the sleperer sleeps in the seeper the sleeper carice the sleeper orer
the sleperer woder the sleeper until the sleeper which
arries the slecpur arries the sleoper jumps off the sleepher and wake
the seeper in the sle per by strikine the sleeper

## UNCLE TOM'S DEPARTMENT

 My Dear Nephews and Nieces:-You have done well in sending in selections for the " Poets' Corner," and I hope you will contirue to evince your interest in the competitions we may the subject for next month, with a view to bringin out the descriptive talent which I am sure many of ny nephews and nieces possess. Choose what neighborhood, a beautiful scene in your own er of some one near is unlimited-you may dear to you-your choice groundwork, but let the word painting be as clear Tom finished as possible, so that all who visit Uncle The first prize will be $\$ 1.50$, the second $\$ 1.00$, nd the third 50 c . All communications to be in ou

The Three Ships of Columbus.
In this the year of the Columbian Exposition, receives an added interest in our eyes. Our illussail on his eventful voyage that voyage which was destined to be one of the turning points in the Nina have been reproduced under the authority of the Spanish Government, and are now on exhibition in Chicago, no effort having been spared to make the port of Palos four hundred jears ago. Curious documents were unearthed, libraries were searched, and everything concerning sea-life in the writings
of early historians carefully studifd. Calculation of early historians carefully studit d. Calculations
to determine the strength, sailing capacity, height

The Breathing Cure A writer in the "Nineteenth Century" is respon-
sible for the statement that almost all the ills sibich flesh is heir to can be curred by a a system ills
wimple that "rolling off a log" would be difficult simple that "rolling off a log" would be difficult
compared with it. He stumbled upon his wondercompared with it. He stumbled upon his wonder-
ful discovery acoidentally, whilst climbing a mounful discovery acoidentally, whilst climbing a moun-
tain, and has, it would seem very selfishly, been
profitig profiting by it himself for almost a lifetime without letting the world into his secret. In order to
avoid suffocation whilst going up the mountain avoid sutfocation whilst going up the mountain
side on account of the decreased amount of oxygen inhaled, the discoverer of the breathing cure was
compelled to breathe twice as quickly ang compelled to breathe twice as quickly as usual, by
doing which the normal amount of oxygen was doing which the normal amount of oxygen was
secured. It occurred to him afterwards, when feeling. somewhat depressed, to see what effect fast breathing would have on the system under normal able to get rid of headache and pain of various kinds simply by taking long and fast breaths of possible specifc ; and states that owing to his use of the system he has kept in perfect health for over thirty years, having been, since he commenced to
use his cure, entirely free from coughs, colds. sore use his cure, entirely free from coughs, colds, sore
throats, and other ailments from which he formerly
suffered. One of the best suffered. One of the best things about the cure is
that it does not require any special conditions that it does not require any special conditions,
even exercise being unnecessary, since the breathing can be done in an easy chair by the fireside as profitably as on a mountain top. Like many other simple for the majority of mankind, the averag run of mortals preferring to dose themselves with nauseating nostrums which originally cost little more than the air, but are sold at a fabulous profit,
to meet the demand of hypochondriacs on the uestion of healthand Whatever virtue there is in
qe cure can easily be tested without he cure can easily be tested without any cost patentonitand createa monoply Let us breathe away!

## Good Manners

Sydney Smith said that the virtue." Certainly a man's havior is, in a large measure, th
outward expression of what outward expression of what he
really is. Coarse spech and unreally is. Coarse spech and un
couth dress tell of the coarse character. The Tattler said that the "appellation of gentleman
is never to be affixed to a man's circumstances, but to his be havior in them."' That is true and, therefore, whatever a man tleman, and the fact that he is gentleman will manifest itself in his good manners. There ar
persons who seem to think it persons who seem to think it
impossible to be cordial and
hearty in manner without being hearty in manner without being
boisterous or almost rude. Deli. cacy of behavior and gentleness in speech are not impossible to thorough cordiality. As a good
heart expresses itself in good manners, so good manners react
mo increase goodness to increase goodness of heart, heart.
(iood manners are possible to every one who is true, kind and
eonsiderate. These inward qualities need to be nurtured and their outward forms of good people and observation of their manners witl of much to aid in acquiring a knowledge of the way: ond really good society. Let the heart he right first
and the rest is easily learned. Good manners, in high sense of the word, helps a man far along in
life. "If you meet, k king he will mane life. "If you meet a king he will recognize you as a
brother," was said concerning a man brother," Was said concerning a man who would
possess himself of the manners of a true gentleman. Who misses or wins the prize?
Gio lose or connurer as yon can:
But if vou fail Go lowe or onquer as you can ;
But if fou failor if fou rise
Be each. pray (iod, a gentleman

## Puzzles.


Trend " Ranks" appars quite thonkfu'



 Insted of the frop that sat on a log

 Come Ricree sit down, explain yourself Lnu Inthuan, You, and erank



Two conjunction and Rople.
But letiters six in all, a preposition
Will But letterssixis in all a preposition
Will tell what Roman Brutus was
The time of Ceesars fall.
 My second is worn by soldiers brave.
When tighting hard their country to save.
"To tincture deeply is is my third


Allu oft adorns our ladies fair.

A stranger and poor unto you 1 ove.
Imeant fanese ladder to chimb.
Betroeme thince then has the wo be
of course it took some time.



## While riss a town onareday: Waking dow the stree. <br> A nasty litite rwo str It was my fate to meet. <br> In size he was but very small. In color he was Tubse





And high up in the van,
Tho uppermost and centre-top stand
Our
Our tho Brother looks out alone.
Hht tho
While a diamond youre not, I own.



While "Prety May, is that a blunder
Cling ot one teteran, Miss A. Pick A.
Two other cousins

Answers to August i5th Puzzles

Names of Those Who Have Sent Correct Answers to August 15th Puzzles


"Uncle James," said a Boston young lady wh
was spending a few days in the country, is thater chicken by the gate a Brahma?","ountry, "is tha "Who," replied Uncle James, "he's a Leghorn." "Why, certainly, to be sure!" said the young
lady.: How stupid of me! I can see the horns on
his ankles."

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