VoL XXXIV. LONDON, ONTARIO.
DECEMBER 5, 1899. WINNIPEG, MANITOBA
No. 491

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 Fhiners what dot weld


EDWARD L. DREWRY WINNIPEG. - MANITOBA

Vol. XXXIV
LONDON, ONT., and WINNIPEG, MAN., DECEMBER 5, 1899.


#### Abstract

Aid to the Fire Sufferers in Dauphin. Mr. McKellar, of the Department of Agriculture, made a personal inspection of the burnt districts of the Dauphin country, investigating each iudividual case, and upon his report the Manitoba lovernment are giving assistance to those absolutely in need of are giving assistance to those absotery iner and assist them in making a fresh start next spring, assist them in making a fresh start nexh spring, hay and bran for the stock being the chief item. Although a good many settlers had their buildings burnt, it being a bush country they were able to rebuild almost immediately. In some few cases provisions for families who lost everything, and also seed for next year, are required. The total amount required to afford this needed assistance is only about $\$ 2,500.00$.


## Ventilate the Stables.

Undoubtedly one of the chief causes of so much mortality among horses in this country is the poor and unsanitary condition of the stables. Old buildings that have been a long tirk fith lying roten floors and a regular cesspool of filth lying underneath, emitting foul and poisonous gasses, and with little or no ventilation, cannot be healthful places for any animal. Very many people keep thed ताँy Equive $\alpha$ bujildings. It is general, upon first elmy equip o gupldings. it is general, upon to be opening the doors the with a rush of hot, fetid air. While it is essential that proper overhead ventilators be provided, it is equally essential that an adequate supply of fresh air be allowed ingress. This should come at or near the floor, and be so arranged that no draft strikes upon any animal. Animals will be much morehealthy in stables where the temperature is never allowed to go above $50^{\circ}$ than where higher temperatures are common.

## Wheat Grades High.

The following statement, issued by Chief InspectHorn, of wheat inspected at Winnipeg in the months of September and October, gives a good dea of the relative quality of the seasonercentage is it will be noticed thall quantity of oats or barley No. I hard. A very smiquipeg, but 44 cars of flax was inspected during the two months named :




The Distribution of Small Packages of Grain from Experimental Farms of Little Benefit.
For a number of years now the Experimental Farms have been sending out to farmers all over the kinds, the ostensible object being to have these varieties tested in different localities. Whether any good has ever been derived from this distribution of small pound packages of grains, etc., in any other part of Canada, we are not prepared to say, but from somewhat extended personal observation, the writer cannot recall an instance where in Manitoba or the West any practical much development work to be done, and such short seasons in which to overtake the work, have no time required to get results from a pound of seed of any darlety of grain.
different from that on the Experimental Farms, a better plan would seem to be to supply a fair quantity of seed to some one man, who would give it proper attention, and report promptly on results. There are some crops, such as potatoes, that can,
with decided advantage, be distributed in small lots, with decided advantage, be distributed in smanfors, as they can very easily be planted by themselves, harvested and kept separate, and the yield fromy even a very small quantity of seed will generally suffice for a considerable test the secormall packages connection Mo Superintendent of the Indian Head Farm, is reported to have said at an Institute meeting held recently in Alberta, that a new plan would in future be tried. He said :
"The plan of sending round to farmers a few pounds of seeds of different varieties of grains, etc.. grown on the Experimental Farm, had not worked
very well. The quantities were too small for the recipients to devote attention to the growth, etc. recipients to devote attention to adopt a different plan. Sufficient seeds of several varieties to sow an acre would be sent to the Agricultural Societies
that applied for them, and then these could be enthat applied for them, and then these could be en-
trusted to farmers in whom the Society had confidence. Farmers in several districts would then be able to conduct their own experiments. No Experimental Farm was in Assiniboia, and it was that were suited to that part of the country might not be suited to Alberta. By the plan above indicated the kinds suited to the different districts would be asc
benefited."

Free Transportation of Bulls to N.-W.T. In connection with the free transportation on 8 carloads of pure-bred bulls granted by the Canadian Pacific Railway on behalf of the Northwest Terriorial Government, as announced in the vov. W Peterson, Dep.Commissioner of Agriculture,Regina, that "the scheme is identical with that of last year This Department will offer to carry animals from Ontario to Territorial points at the uniform rate of $\$ 5.00$. The Canadian Pacific Railway has, however, recognizing the usefulness of the work undertakes by this Department, cored to co-operate to the of the Department ated. This will enable us to carry extent above vigorous policy in this matter this year than we have been in a position to do in the past. Under this arrangement the party purchasing a pure-bred bull in Ontario can, upon filing an application accompanied with $\$ 5.00$ and a declaration that he is a bonu fute farmer possessing a certain number of cattle, have the animal delivered to his nearest railroad station under the supervision of the Government, the Government undertaking, through the Dominion Breeders Associations, the collection, shipping, and wisly Last year each applicant was ond we understand the one animal onplies still. The arrangement is the same as last year, so far as the farmers are conbut $\$ 5.00$ ) a head is a very reasonable charge, and no one should object to paying that amount.

Preparing for all Weathers.
As the time is fast approaching when the Legislature and stock Breeders' Associations will meet, should both individually and collectively impress it on the powers that be that every winter. let pass ing for farmers, their children, and their hired men, means thouseluds of dollars lost to the province. Some may think their conscience will say: "Mook at the expense of such an institution; the Province can't afford it," and yet these good people can not on
will not explain why so many creameries and cheese factories are idle; why the average yield of
wheat in the Province is not higher: why the weod wheat in the province is not higher. : wo b-packing
question is such a serious one: why a porm cannot get enough hogs: why the stockers
firm
all go out of the country (this same person swears or why it is somany of the fairs are such starvelings, or why it is so liany of editorial in the F. A. (Nov.
 correct : "Some of the older chy which they would given a few months schooling, by wheitly helped in their lifes work, whether on the farm or elsenchere?', A government ministers for the people; one of its primary duties is the improvement of the educational facishing university (I refer to the attendance particularly), and colleges giving courses in arts, law, medicine, and divinity, Manitoba is fairly well supplied, educationally speaking, yet the keystone
of the educational arch is lacking because there is of the educationa arch is lacking because there is
no agricultural school. In the U. S. each State has its technical college, where the son and daughter of the poor man can take up agriculture, domestic economy (a science), engineering and other indus
trial pursuits. It is acknowledged by all that the professions are being overcrowded-the profession of agriculture will never be overcrowded, as that period will mark the direction of public funds in such a way as to further overcrowd these professions, law, art, divinity, etc., might be questioned. To the person who pays the taxes the project of an Agricultural College is a fearful one. He fears that a large bill
will be incurred for expensive buildings and costly will be incurred for expensive buildings and costly
experiments, etc., and, while he is in error here, he experiments, etc., and, while he is in error here, he
forgets the resultant benefits of such an institution. Let me cite Wisconsin, and first show the rapid appreciation of the short course in agricuiture. It has only been in existence six years, with to-day there are over 250 applicants for admission the coming winter. Who are these zealous people? Farmers, farmers sons
and hired men. The last mentioned class are well and hired men. Their reasons for appreciating such a evidence, and thewr are shown when it is stated that the secretary of the short course last spring placed 102 students at good wages, wage ruder! people do not offer such pay unless the services to be rendered are worth the price. Applications for educated agriculled Manitoba has not the funds to start an flaborate institution, giving courses in biology chemistry and bacteriology ; such subjects, I hold, being entirely without the province of tof agsors for tural college proper, The short course at Wis consin is of 14 weeks' duration, no entrance exami nation, and the teaching is made as simple and a practical as possible. judge a horse (not omitting it to handle a sheep, to judge a hisse to discriminate in all kinds of farm stock, are given the principles of feeding, soi physics, farm chemistry, farm culture, and dairying. The strong feature of the course is the live stock work, above, and the shents go back to the farm with an increased carning power and love for their calling, and are also in demand as expert judges at the county farr. Manitoba at a reasonable expense, because expensive buildings and laboratories are not necessary. The investment will pay
100 per cent. While the present state of affairs 100 per cent. While the present state of affairs
continues, the farmer population can say with juscontinues, the farmer population can say
tice, "Now is the winter of our discontent."

## Are Wire Nails Durable !

Itis said that the wire nail, that has to such a large extent displaced the cut nai, rusts through at the place where the two pieces ofd-fashioned nail. One writer gives as an instance that where shingles have been put on with wire nails, but few years elapse blow off the roof. Just why this should be so is not explained.

Crushing Oats.
The advantages of crushing oats before feeding them to horses are many. They are more readily more of the nutriment out of them : horses cannot olt crushed oats as many do whole oats. Of course with old horses, or young horses changing their wave a full set of sound teeth. Bruising or rolling wow more generally favored than crushing, but When there are any foul weed see
wore likely to destroy the seeds

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Addres - THE FARMER'S ADVOCATE, or THE WILIAM WELD CO.,

Fodder Corn in South-western Manitoba, as grown by r. m. Graham, maplehurst farm, To the Editor FARM, AR MELIT
To the Editor Farmer's Advocatr:
Owing to the continual decrease in the native Owing to the continual decrease in the native
Grasses, and the increasing demand for fodder, I
decided last spring to try ensilage corn-a fodder grasses, and the last spring to try ensilage corn-a fodder Very highly recommended by Mr. a piece of old land sown to wheat the year before, but owing to the the
drought of spring that yaer the weeds shoked out the whent sob bally that st iod not cut, what satstured the grain. Last spring being so wet
and backwarl, I Idid not get time to and back ward, thid not get thime to plow this of the weed seed were ger.
the bute
mind
plowed and harrowed minated. ${ }^{1}$, plowed and harrowed
down fine,
,nid sowed 7 bushels down fine and sowed thashers on 15 areses about the 2nd of June.
pluyging the seeder sponts so as to pluysing the seeder spouts so as to
make the ruws 2 or 3 feet apart. $A$ make the tuws 28 or 3 feet apart. AA tow kill seeds that terer gerninating.
 I ran the weeder over an couple of
times, and then when the corn wis
wis.
 tows towork the cult isator. one
riding and going over it atout tlluee riding and going over it athout three
times till the conn was two or three

 table nee for "hich purpose we had
abundance for two or throw weeks.
 could only cut one 1 ow at in time one way against a brisk wind. If a tew neighbors would combine and
purchase a regular corn harvester it would greatly purchase a regulat conn harvester it would greatly



field of fodder corn in south-western manitoba.

Was its attack general throughout your crop 3. Did you notice any particular difference on old spring plowing. light or heavy land, high, rolling or low and flat lands, or in early and late sowing? 4. What reasons would you assign for any differ ences you may have any dif injury to wheat and barley?
6. In your district has the damage ben r confined to certain farms or localities?
7. Are any precautionary measures being taken ? From the replies already to hand it will be seen that the injury has been pretty general in Easter Manitoba. The only other point from which any
information has been derived is from near Melita. it is evident that very few were aware of the pres It is evident that very few were aware of the pres-
ence of the fly until harvest time, and that little definite information has been acquired. Some of the letters are quoted below
oo the Editor Farmer's Advocat
In reply to your inquiries re damage by Hessian That my wheat
the fly, from 8 to 10 per cent. at least of the whole crop being destroyed
It attacked my wheat only, and I could see no
difference on old land or new, fallow or stubble, fall or spring plowing, or in early or late sowing, though
none of our sowing was very early. Possibly the late sowing, caused by the generally saturated con fall, has something to do with the prevalence of the pest in the eastern part of the Province.

Have not heard of any injury to barley.
The damage was not general throughout our township, yet a large percentage of our farmer think to this cause must be ascribed the generally low returns from the wheat crop in this locality. The wheat stubble has generally been plowed
under, and the straw, where not already burned, will be before spring, as suggested by the ADvo Cate.
Your timely articles have awakened the farmers out this pest. out this pest.
Springfield Municipality

In our district, although the damage was very general, it was not serious. Where its ravages were worst was on the highesc and most mellow nor new land was affected at all.
It did not seem to make any difference whether the land was spring plowed, fall plowed or fallow only fall plowing was done; no burning was done so far as I know. Springfield Municipality.

Mr. Thomas Lewis, also from Springfield Muni cipality, considers that about $20 \%$ damage was done old; that on wheat late sown the damage was worst. Did not notice any damage except to whea Considers the damage general throughout the dis trict.

I noticed more damage done to wheat on ligh land; the heavy land was affected also, but not to fallow whtent as the light. We had no summer plowed. I don't think there was any difference fal ween late and early soeding, we ha all our wheat in on May l3th. As far as I can learn the whole Mennonite reserve was affected by the fly,
but more especially on light, sandy out more especially on light, sand
soil. Rhineland Municipality.
A. Graham, of Dufferin Munici pality, reports about $7 \%$ of damage. the crop. Late sowing suffered more, and he thinks this is likely attributafle to the late arrival of the Hessian njured. The damage has been gen eral throughout the locality. The land, he adds, intended for wheat is till uncovered on land intended for oats and barley. Very little stubble has been burned. Farmers have been too busy to acquaint themselves with the nature of the fly or the
precantionary measures recom precautio
mended.

Hessian Fly in Eastern Manitoba. Hessian fly in parts of Manitoba this ceason the Farmer's Adyocate submitted a few questions to some of the leading farmers in different parts of the
Province, principally the Red province, principally the Red River Valley, in order hop. that something might he learned that would he of benefit should the attack of the Hessian fly 1. What percentage of damage, if any, did you
suffer thom the Hessian tly
oo the Editor Faruer's a
In regard to the Hessian fly, I may say that it is something I know nothing about, and if it had not lsewhere, I would not have known that it had ever been in the country, and I have not heard that any of our neighbors suffered from it. wheat on themgh, in fields of my own that had appeared blighted last year, some patches that When the rest of the field was fully headed out came patches were still in the shot blade and never
came to the perfection that the rest did. I could
same as when the wheat was good. II have thought same as when the wheat was good. I have thought
since that the Hessian fly may have been the cause of it. The proportion of damage was very slight,
not amounting to one per cent. of the crop. Sumnot amounting to one per cent. of the crop. Union Point.
A. DRYDEN.

From the Niverville district, R. W. Greig reports about $15 \%$ damage; injury was to wheat ony. very early seeding suffered more than some of the
late sowing. No damage noticed to any other crop than wheat. It was general throughout the district, the only precautionary methods taken being deep early fall plowing


Original promoter of the Ontario Agricultural College.

William Wallace, from the same district,reports from $5 \%$ to $20 \%$ damage. Observed no difference in
old or new land or under different conditions of old or new andivation. Did not notice any injury to barley cultivation. Did not notice any injury to
Damage general throughout the district.
mostly hurned, and all stubble land plowed.
H. O. Ayearst, St. Paul's Municipality, reports wheat on new land bady damaged, at east $25 \%$; $n$ other crop affected. No injury on was all spring plowed
S. R. Henderson, Kildonan Municipality, estimates the damage done at $10 \%$, and only on summer fallow. Reports it to have been worse on old cund vation in the spring and sown early. Attributes the cause of this to the excessive wet in previous fall and spring. Noticed no injury to barley. Damage has been general plowing the only precautionary measure taken From Reaburn, W. M. Champion reports no From Reaburn, in in the locality good. H. L.
damage. All crops in McDermott reports no damage from the Headingly district. George Kingsberry als
age from West Selkirk district.
J. T. Lennox, writing from Arthur Municipality, states that if the damage done to the crops was from the Hessian fly, it was worse on summer fallowing than on fall plowing. No damage on backsetting or spring plowing. His fall powing and fallow were sown spring plowing, Damage was spread over a considerable area, but many considered the cause to have been the rank growth early, followed by a long, dry period, which made
the straw weak. He thinks, however, that the fly was one of the principle causes of the disappointing yield.

## Horse Breeding for Profit.

Mr. Robert E. Turnbull, in the English Lire
Stock Journal. gives the following article on "Horse Breeding for Farmers, and What it Pays to Breed": Breeding "In the United Kingdom there are at present about $2,450,000$ horses kept for 6 about 610,000 unbroken horses, or $3,060,000$ horses. About four-fifths of the whole number are horses that have been broken to work on the land driving, and for trade purposes; having regard to the large number of horsts employed by railway companies, brewers, and in other
businesses for heary traffic, and the number of horses required for land work and for heavy traffic,
and 715,000 for riding and driving and for light traffic.
"More heavy draft horses are required in this country than any other description; that being the case, farmers who give their attention to this class
of horses, and who breed first-rate animals, can always find buyers who are prepared to pay a remunerative price for high-class horses suitable for railway and heavy town traffic. Young draft horses of the best type, that have been carefully reared and judiciously fed, can, without any disadrantage, be they are two years old. From that age till they are five years old, when they are ready for sale, they If a young draft horse has the misfortune to meet with ann accident that unfits it for town work, it may still be usefully employed on the land, whereas, if a young hunter become unfit for the purpose
for which he is bred, his services cannot repay the cost of keep. All experienced farmers are agreed that, taking into account the value of the labor performed by young draft horses, they can be kept to the age when all horses command the best price at a relatively lower cost ansiderably higher price can be obtained for a well-bred weight-carrying hunter, or for a highclass carriage horse, than for a good dratt horse but for one man who has the necessary qualinicaof the best class, there are ten who are capable of breeding good draft horses, and except, perhaps, in Yorkshire and in some parts of Ireland, for one farmer who can breed a first-class weed good draft horses. In the long run, capital invested in wellbred Shire or Clydesdale mares that are intelligently managed, gives, as a rule, a more citrain return driving horses. But if a man is a good judge of hunters, Hackneys or carriage horses, and is a
 and colleges, and recommended plan.
born breeder, naturally endowed with the qualities that are necessary for success, chierestamong which are sound judgment, patience, and the finest powof horse in which he takes the keenest interest, provided he has suitable land and buildings. There is no depression in the market for high-class hunt exceeds the supply, and good Hackneys can be readily sold at remunerative prices. At the agri cultural show at Trentham lately, the Duke of Sutherland stated that, accordimg to figures he had nually employed in connection with fox hunting The love of sport shows no sign of diminishing. In the last few years wealth has rapidly accumulated in this country. In the great business centers the creased. Under the circumstances, good carriag horses are likely for some time to come to be more in demand than ev
"It does not pay to breed cab horses or omnibus horses. These can be more cheaply bred abroad.
It does pay to break high-class horses for riding and driving, and for agricultural purposes and heavy
traffic. In this field home-bred horses of the best traffic. In this field
type are unrivalled."

## A Great Plowing Match

The great annual plowing match of the North Kent, Eng., Agric. vious years, the event excited intense local interest be gathered from the fact that it attracted no fewe than 155 competitors. It is claimed for this mee

Inspection of Horses at the Boundery The Dominion Minister of Agriculture has ordered sections 40 and 42 of the regulationsgoverning the inspection of horses to be puest Territories, and British Columbia. They require the inspection of horses by competent veterinarians, authorized by the Minister of Agriculture, at the port of entiry, viz. : Horses admitted for general purposes; horses for stocking ranches; horses or cow ponies for cattle ranches; horses forming part of settlers' effects; horses for racing, show, exhibition or for breeding and horses for sale. In the case of settlers' horses and horses for breeding the inspection fees are paid by the Department of Agriculture.

## Over-fat Show Stock.

The complaint is being vigorously urged by a portion of the agricultural press of the United States that over-fatted animals in the classes for breeding stock of the beef breeds at the shows in that country are, as a rule, favored by the juages selecter it of compres in the animals for the primary purposes for which they are intended It is an old story which has long applied to American shows and is is urprising that a people so generally intelligent and up-to-date have people so generaly the lessons in advanced feeding written so plainly in living letters in the well-known fate of a large proportion of the over-fat animals as breeders which have figured conspicuously in their showrings, and written equally plainly in the many excellent works on the subject of scientific feeding, published by able men in their own country, and in the reports issued from their agricaltural colleges and experiment stations. Is it because their stockmen, from among whom are too busy to take tine to whith of the day on the very question in which they are is it, which is probably the true reason, that their is it, whon is prop of maize is so easy to raise and to feed that they fall into the old way or fail to get out of the old way of pouring heating corn into their cattle, as a stoker shovels coal into the fireplace of an engine, until the vital organs of the animals for breeding purposes are burnt out, and they are leftas useless for procreation as an extinct volcano for pyrotechnics.


WM. JOHNSTON, B. A.
Irincipal of the Ontario Agricutaral College from 1876 o 1879.

Canadian judges, breeders, and exhibitors have caught on to the idea of scientiac (which is but nreparation of breeding stock for show puroese nd are a long way in advance of their neighbore across the line in this respect. It is long since there has been just cause for complaint, except in very care instances, of over-fat animals winning the best prizes at Canadian shows, and very few indeed are hown in that condition, for the very good reason that exhibitors know from experience and observathon that it would certainly lessen the chances of favorable notice from the stock-breeders around the
showring. There is good reason to believe that the animals which have been winning at the leading shows in Canada in the last ten years or more have made a very favorable record as regular breeders, and have produced a fair proportion of offspring good enough to make show animals, if need be. The complaint has been made by a contemporary breeds at the great agricultural exhibitions are nothing more nor less than fat-stock shows. We are glad to know that in this enlightened age this indictment does not apply to Canadian shows, and we will go further and say that many of the cattle shown, and winning in those classes at American

hon archibalid mekellat
First Commissioner of Agriculture for Ontario
shows, would not be tolerated in a fat-stock show in Canada. They would at least have no chance of winning prizes at the hands of our judges." We do not have that sort of stock entered for competition, and if they were presented they would be is flesh, not fat, that wins, and a good judge, with a trained touch, can readily distinguish between the two qualities. We want, and will have, neither the soft, quivering, jelly-like covering of the carcass prop. erly called blubber, nor the hard, dry, harshfeeling 'rolls of fat on the ribs and rump, both of which are the results of the work of men who are ignorant of the first principles of scientific feeding or criminally careless in their methods. Let it be known and understood that adipose tissue for breeding stock or 'for butchers' beasts, since its for breeding stock or the rendering tank, and tallow is a low-priced product, the market for which our people are not ambitious to cultivate. Quality against the world should be the motto of Canadian breeders and feeders, and we are making progress along that line. Let the breeders proceed in the course that has proved a success, and to that end let there be no decadence of the cultivation of roots and other succulent food for winter feeding, and let a wise system of feeding mixed rations of nitrogenous foods more generally prevail, in which such muscle-producing foods as bran and oats form a liberal proportion, and with this precaution, coupled with a fair amount of exercise will be lithe law of self-preservation in our herds, or wasting good food in producing cheap meat, if fat, indeed, can properly be called meat-it is grease. Let our judges also - whether in breeding or fatstork classes make a memorandum in their memory that a good quality of firm flesh, thickly and smoothly laid over the carcass, and especially where the highest-priced cuts come from, is the mark of morit which must win, keeping always in view in the bomeng chasses character and breed


The Ontario Agricultaral College and Experimental Farm---Then and Now.
To the Hon. Sir John Carling, of London, belongs the honor of having taken the first steps towards Ontario; to him also is due the credit of having established the Dominion Experimental Farms at a later date.
In his report for the year 1869, addressed to GovAgriculture and Arts for Ontario, spoke in complimentary terms of the system of general education in this Province, and then said: "I have a growing conviction that something more is required to give
our education a more practical character, especially our education to the agricultural and mechanical classes of the community, which comprise the great bulk of the population and constitute the principal
means of our wealth and prosperity. What now means of our wealth and prosperity. What now appears ory instruction in common schools, is the introduction of elementary instruction in what may be termed the foundation principles of agricultural and mechanical science, and in the next report I may have honur of presenting to Your Excellency, to record the fact of a comr

REV. W. F, CLARK, COMMISSIONER.
On the 12th August, 1869, Mr. Carling appointed the Rev. W. F. Clark, of Guelph, a Commissioner to visit the principal agricultural colleges of the
United States, gain what information he could United States, gain what information he coul and report with the give instruction in agriculture
Province a school kindred subjects, and to conduct experiments

$\qquad$
for the purpose of solving some of the problems which confronted those who were engaged in agricaltural and horticultural pursuits. Mr. concise, comprehensive and scholarly, and withal practical and sensible in its suggestions and recommendations. It furnished the Minister with the desired information and indicated in outline the as it was thought should be established in the Province of Ontario.
schools of agriculture and practical
So, in pursuance of his previous intimation, Mr. Carling, in his report for 1870, definitely proposed ture and the other for mechanic arts, and the outcome of his recommendation and subsequent action were the founding of the School of Practical Science in Toronto, and the purchase of 600 acres of miles west of Toronto
The land was purchased in 1871, and a contract for the erection of school buildings for the accommodation of 100 resident pupils, at a cost of $\$ 77,900$.
was entered into in November of that year ; but, a change of (iovernment having taken place that fall. the work was delayed for a time, and objections urged against the Mimico site hy prominent farmwhat should be done

eport as to its suitability for an experimental farm. Both reports were unfavorable to the site, chiefly on account of the character of ethe soi and the lack of church and other privileges such of a town or city; and the result was that a committee, consisting of John Dunlop, John Miller, John Dryden, the Hon. David Christie, and Robert
N. Ball, was appointed to examine farms in the N. Ball, was appointed to examine farms in the with the view of getting a suitable site for the pro posed school. This Committee reported the facts, December, 1872, and left it for the Government to decide. which it did by purchasing the Guelph farm of 550 acres from $\mathbf{F}$. W. Stone, political opponent in the early part of 1873 .
Some additions were made as soon as possible to the farmhouse, which still constitutes the first two
stories of the main building, in order to get ready for 30 pupils at as early a date as practicable.
NAME AND MOTTO.

The name decided upon was the Ontario Schoo of Agriculture and Experimental Farm, and the scholarly Professor of Agriculture in the University of Toronto, was Practice with Science.

Liberal terms.
In accordance with the recommendation of a Commission appointed to prepare by-laws and
regulations for the school, the first years were to be regarded as a Preparatory Term, in which student help was to be largely employed to put the farm and horticultural department into shape for period students were to work seven hours a day in the outside departments, and for his labor in these departments each was to receive instruction, lodg cash at the end of the year, in case he completed it satisfactorily and passed the prescribed examina tions on the course of instruction.
opening of the school in 1874.
On the 29th July, 1873, Henry McCandless, from
 over the signature of Mr. McCandless a long adver tisement announcing the opening of the school on the 1st May, 1874.

LIST OF officers at opening.
H. McCundless, from Cornell University . . Principal, Rev. W. F. Clark, from Guelph............ Rector. James Stirton, from Guelph............. . Stockman Thomas Farnham, from Toronto ..........Gardener Jas. McIntosh, from Guelph ....Foreman Carpente T. Walton, from Toronto

Engineer


Twenty-eight students entered the first term, and the outlook seemed encouraging, but the officers soon began to guarrel among themselves. In Candless and three or four members of his staff 9 hame of June ; and on the Mr. 13 th of July, twenty-six of the students in attendance sent a petition to the Hon. Oliver Mowat, asking for the removal of the rincipar. the Government began to realize that its July, and had only begun.

Charles Roberts, Esq. of Haslemere, Surrey
men to advantage, and did
CHANGE OF NAME, ETC.
At the time of Mr. Johnston's resignation, and and Experimental Farm became the Ontario Agricultural College and Experimental Farm, and the chief executive officer or President of the College. The writer took charge at that time (1st of October, 1879), and through storm and stress has stood by the ship for over 20 years

$$
\begin{aligned}
& \text { rer } 20 \text { years. } \\
& \text { ARM superintendents. }
\end{aligned}
$$

From the outset, the office of Farm Superin-
. endent and it is no less important in the College. James Laidlaw, afterwards representative of South Wellington in the Legislative Assembly, was Farm Superintendent in 1875 till 1st July, 1888 , a period of nearly hirte years . Thomas Shaw, from the 1st October. 1888, till the summer of 1893-nearly five years; and Wm. Rennie, from 1st October, 1803 , till the 1 st October, 1899-exactly six years. G. E. Day, B.S.A., of the present year.
COMMISSIONERS AND MNISTERS OF AGRICULTURE. The gentlemen who, as Commissioners and Ministers of Agriculture, have had control of the School and College since the Mimico site was Hon. Archibald McKellar, about four years (18711875) ; Hon. S. C. Wood, nearly eight years (18751883) ; Hon. James Young, a few months in (1883 1888): A. Hon. Chas. Drury, first Minister of Agriculture, nearly two and a half years (May 1st, 1888, to September 1st, 1890); and Hon.John Dryden, second Minister of Agriculture, over ner 1 nt, 1890, to December 1st, 1899). Ist, It would be invidious to enter into a discussion of the work done by the different commissionk it may be said that every one in the to the affair reat deal of time and and, and did the work much vetter than it would have been done by any Boar of Trustees or Governors.
ADVISORY BOARD.

In the earl to consult with the President in the management of the school. This Council consisted of the Hon. David Christie, Hon. George Brown Hon. Archibald McKellar, Professor George Beadle Esq., and James Laidlaw, Esq. The Council disap peared when the Hon. S. O. Wood became Commis sioner of Agriculture, and the Commissioner alone the Hon. A. M. Ross had an Advisory Board of practical farmers appointed to assist him from time to time, especially in matters pertaining to the management of the farm. John I. Hobson, Guelph chairman ; C. C. James, Deputy Minister of Agri chaiture, secretary ; John McMillan, M. P., Con stance, Huron Co.; William Donaldson, Boad Sorra, Oxfor . B. Boyce, Norham, Northumberland Co. ; and D. A. Dowling, Appleton, Carleton Co. strong and weak points.
One of the specially strong points of the In sitution, from ' 74 to '99, has been the thoroughly and persistently Sracticagricultural Colleges are agricultural only in name. They have placed agriculture in the background, and have hroad enedeges and universities. The Ontario Agricultural College has not done so, but has alway insisted on manual labor, and has given specia prominence to agriculture, live stock, dairy branches of study which have a direct bearing on the ordinary work of the Canadian farmer. For i long period the Farm management was severe
criticised by the farmers of the Province, and wis criticised by the farmers of che Province, and wit very often spoken time the tide began to turn, and during later years the Farm has oeen molle and doubted source of strength to the College. On
source of weakness, from the beginning till (for nineteen years), was divided, and necessarily conflicting, authority, It was a cause of trouble t. the first Principal; in the form of a double head ship. Princinal in 1879: in the same form, it caused endless friction from ' 79 to ' 88 ; and in other forms endangered the Institution subsequently. It was not till the summer of 1893 the President full conhad the courage to give the preserything, thus eliminating a serious element of weakness. Though often, from its inception (starting with the change of site). made a sort of political party College has grown less marked and bitter than it was, and we now look for reasonable sympathy and fair support from both parties.

COURSES OF Study, diplomas, and degrees.
The primary aim of the College always has been
train young men for work and life on the farms to train young men The course for an Associate diploma, extending over a period of two years, and
including both study and practical work, has been arranged with this object this aim throughout the first two years of every regular student's course as the College. Those who compiged by the Minister of Agriculture and President of the College, are known as "Associates of the College.


In 1887, a third year was added to the course, and the College was affiliated with the University o The addition was made at the request of Associates who wished to pursue their studies in certain epartments for a longer time than was emepace themselves more fully for the work of the farm or for positions as agricultural writers and teachers of agriculture, horticulture, dairying, anmal hus bandiry, chemistry, biology yer is heavy and none but the best Associates are allowed to take it. The examinations on the third-year work are conducted by the University of Toronto, and Age B. S. A granted to the successful candidates at the annual commencement exercises of the University.
Ninety-eight degrees have been granted on th to ex-year course, a to four years-two years for the Associate diploma, and two additional years for the


Chairman of Advisory Board of Ontario Agricultural College
and President of the Provincial Winter Show. B. S. A. degree. This change is due to the fact that the additional work required for the degree has A special course in dairying was announced for the 1st of February, 1893, and the attendance was an saticfacted and the envipment for permanent

Dairy School promptly provided; so everything was ready for a large dairy class (over 100) in January, 189. This school furnishes a very thorough course of theoretical anding and cheesemaking, mind is divided into two departments one for home dairy work and the other for a factory course, incertificate is given to those who complete this course.

A large and well-assorted geological cabinat A well-equipped biological laboratory, with classroom and everything required for theoretical and practical work in botany, zoology, amens for the siology, inctuding ca, entomology, or that branch of science which treats of insects.
A large and well-equipped bacteriological labora-
tory for instruction and original work in the vast

main college building, with chemical laboratory to right.

EQUIPMENT THEN AND NOW.
From the beginning, the institution had a very fair equipment for instruction in field agriculture farm buildings, with good samples (male and female) of cattle, sheep, and swine; three greenhouses and a large garden for instruction in horticulture, and two commodious classrooms for lectures and
demonstrations on the subjects embraced in the course of study. A dairy building was erected in subject was given for the first eleven years after the opening of the school.

Houses for the Farm Superintendent, the Bursar, the Gardene, and the Farm Foreman were made in the Hon. S. C. Wood's time; and the chemical laboratory (the first laboratory provided) was built and equipped in 1887, near the The experimental barn was built while the Hon. Charles Drury was Minister of Agriculture; and the following large and important additions have been made during the regime of the Hon. John Dryden: New greenhouses, biolding (with complete equipment) and houses for the Department, poultry buildings and house for Manager, physical labora-
tory, experimental building, bacteriological labory, experimental buildings for Experimental Feeding Doratory, buildings for Experimental Feeding first having been burned).
present attendance overtaxes capacity.
The number of students enrolled in the regular course this term is one hundred and sixty-four, no less than twenty-six of whom a
for want of room in the College.
With an able staff of instructors and workers, and such large and valuable additions in the way of buildings apparatus and appliances, it may
surely be said that the College is now in a splendid position to train young men for agricultural pursuits ; to do work in original research ; to conduct experiments on various lines, and to
lead the van of agricultural and horticultural progress throughout the Province. The present equipment of the Coll follow:
1.-FOR CODIEGE WORK

A large and well-furnished chemcoll building. containing a beautiful
classroom and three commodions lahoratories one for first and second year students in general, agricultural
and animal chemistry : another for and animal chemistry : another for work; and a third for sperial investiwith the dairy and experimmection partments.
and highly important fied of bacteriological A good physical laboratory, with tables and all necessary appliances for practical instruction in dynamics, mechanics, hydro:
electricity, and soil physics.

glimpse of lawn and trees at the o. A.
General and special lecture-rooms for studying, handling, and judging live stock, especially cattle sheep, and horses, and for practical demonstration.
the veterinary art.
A complete set of greenhouses, with lecture-room and laboratory for instruction in horticulture.
Lecture-room, with all modern appliances for the illustration of lectures on dawiming. if.-For practical work illustrative of lection in the collegh.
A farm of 340 acres of land in fine condition, wel? tilled and well managed. complete set of farm buildings and ample outfit of agricultural implements. outfit of agricultural implements. breeds of cattle, sheep, and swine.
A large experimental building, and 43 acres of land divided into about 2,000 plots for testing varie ties of grains, roots, potatoes, and corn, and for ex dates of seeding, kinds of seed, value of artificia fertilizers, etc.
Special stable, piggeries, and yards for experi a separate dairy stable and sheep. ows for experiments in dairying.
Butter, cheese, and milk-testing rooms, with the latest and best appliances for buttermaking, cheese milk and cream.
Two rooms devoted to experimental cheesemaking for nine months of the year, anee months. darge and well-arranged poultry buildings, with 0 varieties of the most valuable hens, for practica instruction in the breeding, feeding, and manage ment of poultry
fing forest-acres of land, including lawn, arhore vinery, small-fruit garden, and orchards, for instruc tion and practical work in horticulture.
A carpenter shop, with benches and tools fo plain work and general repairs.
course of study.

The course of study is liberal and very practical, specially adapted to the wants of young men wh intend to be far stock, dairying, poultry, bee keeping, chemistry, geology, botany, zoology, ento mology, bacteriology, horticulture, veterinary science, English literature and composition, arith metic, mensuration, drawing, mechanics, electrich and German have recently been added for the B. S. A. degree. The purely practical or ored-and-butte subjects are well taught. - The work in English is to that in our best arts colleges.
OUTSIDE WORK.

Already the College has rendered excellent ser reports and bulletins from year to year, and in several outside departments of work
(1) The Experimentel Union of ex-students and grasses, roots, potatoes, and other crops throughout the Province-about 3,500 of them working under the direction of C. A. Zavitz, B. S. A., the College Experimentalist.
(2) The Farmers' Institutes, organized and conand assisted by the College staff from their inception to the present time.
(3) Travelling Dairies, sent out from the College, graduates of the College
graduates Dairy Schools, east and west, under the control of the President. and two sub-stations, testing varieties of fruit under various conditions of soil and climate throughout the Province, and preparing a description of Canadian fruits, under the control of a small Board,
of which the President of the College is chairman, and the College Professor of Horticulture a member. With due regard to modesty and professional etiquette, I think I may say that, through these organizations and in other ways, the College is farmers of Ontario, is creating a widespread interest in agriculture, and is adding dignity to life and labor on the farm.

gexeral diew of college and farm buildings

In other words, the West is a pretty good place for men hedged about by hard circumstances, who feel that they could do better if they only had the chance. The Canadian Pacific Railway has made may be had at small cost, and since, by the way, may be had at small cost, and since, brice," as the Westerners say, for this work, they should reap some of the benefits from it
the West by people from different places is going the West by people from different places isgoing to benefit the East in
a variety of ways; at
the same time, does it the same time, does it not look as though the
East has paid well for the free privileges of the strangers? Let the
farmers who found farmers who found
taxes heavy since 1885 answer. Let the men whose lands dropped thirty-five to forty per
cent. in value with the cent. in value with the
opening of Manitoba apening or, or whose vheat went from a dollar to
seventy cents, and beef seventy cents, $\begin{aligned} & \text { six cents; } \\ & \text { from six thee cel }\end{aligned}$ but this is another story. Probably it is
the business of states the business of states
and governments to exand governments to ex-
pand and grow as states independent of the interests of individuals. It is a case of self-
preservation of the preservation of the states, but rather hard on some of the individ-
uals. It would be in uals. It would be in
delay a large and well-equipped Department of Domestic Economy

The Great West.
[special cohrespondencr.]
There is probably considerable interest for the generai reauc -inaccounts of the Doukhobors and
itoba farm steadings. A few strands of wire, however, seem to have been surreptitiously put up. The
wheat fields, of course, indicate by their size the vast resources of the country, and by their beauty the wonderful productivity of the soil. The preponderance or wheats something abnormal, not simply because the Manitoba fields differ from the fields of Ontario, with their variety of barley, peas, oats, turnips, pota-


SOUTHDOWN RAM. WARREN ELLLIS W. Sold by John Jackson \& Sons, Abingdon. Ont, to Hone Cassius
M. Clay, Whitehall, Ky. Winner of third prize at toes, and corn, or their cattle revelling in clover, or toes, and corn, or the knolls ; but from well-learned simple scientific lessons on the necessity of preserving land fertility by rotation omestic animals the rearing and toeding land is not the only one. Mixed sources of revenue have the advantage over a single crop that may be almost destroyed over large areas in a single night by frost. The best Manitoba farmers anceady reatize there are already many breeders of excellent $\square \quad \begin{gathered}\text { horses, cattle, sheep, and pige. } \\ \text { There areplenty of young men }\end{gathered}$ There areplenty of young men
from the East who have worked out and homesteaded their quarter-section at the
same time, that have made same thselvescomfortablein two or three years. Good available homestead lands, of course, tend to become scarce
near the towns and railways, hut good land can be bought for from three to six dollars an acre, so that a man with
a thousand dollars could buy a thousand dollars could buy
a quarter-section, a team, and a quarter-section,
a few implements, and make a very decent start in Mani-
toba-much better than he toba-much better than he
could probably do, for examcould probably do, for exampaid of Manitoba applies to eastern Assiniboia. The re-
gion of Indian Head is scarceyion inferior to the Portage la Prairie district, and the best parts of both the Province
and the Territory are claimed and the Territory are claimed to be away from the main
line. With the opportunities
ontario agricultural college, main builiding and front grounds from north-west. the Indians. The industrial qualities of the for congratulation, considering the comparatively large numbers that have come into the West. The social customs of the latter are interesting, from the fact that they are tare a dying race. It may be safely concluded, however, that what the Ontario or Maritime boy or man wants to know is the opportunity afforded hy the wastion of his immediate of his hands or the making of a competence. Without a wants intimate knowledge of the West, or with no knowledge of it at all, it may be accepted as axiomatic that a mor a problematic or uncertain better thing in a place he knows little about. The fact that a man is doing well in a place is conclusive proof that he is suited and is not an infallible index in which he is placed, and is in another. The man who comes west just because he expects to get who coming for nothing, may be expected to finish in exactly the way that persons with such imperfect conception of the problem of existence
deserve. Man shall not eat bread, even in the deserve. No. 1 Manitoba hard wheat, except by rege sweat of his brow, any more than he will in
the
any other part of the globe. any other part of be strictly borne in mind that While it should be strict drop the bone for the
it is always poor policy to shadow, it is, on the for one in the most likely place.
tion as to how well she can grow it. The place it takes in the markets of the world has settled this beyond discussion. The country is monotonous in its atsence is this monotony modified when the ground is covered by the nodding, gotaclose, heavy stooks, or the twin stacks. At times wheat fieldsextend on both sides of past the line of rections with Out a break.
One would judge tha fences wer e lawainst the not for the pic tures of what theadvertising agents in their pamphlets call
typical (") Man
afforded for seeing the country on the cheapsummer excursions, no young man in Ontario who is looking or a wider field should neglect seeing the country. In a later issue the dealt with, with special reference to cattle, sheep, and horse interests.

portion of lawn, with dairy department in the distance.

The Winter Shows.
The remarkably mild weather of the last month has been so little suggestive of what is sometimes called grim winter, that it is difficult to realize that within a fortnight the fixtures now known as the Winter Fat Stock, Dairy and Poultry Shows will be events of the past, and yet the calendar-sure
purposes for which they are intended are placed before the people and their comparative merits who know the competent and experienced judges best meet the requirements of the markets and command the highest prices. The slaughter tests, which
will be a part of the Provincial Show to be held in Wondon, December 11th to 14th, as advertised in this London, December 11th to 14th, as advertised in this
various ines of work connected with stock-iaing eeding and marketing, is an additional feature of nterest, and cannot fail to be helpful to all who ar show was published in our Nov. 15th issue (East ern edition). Some changes in this, made at a recent paragraph in our "Gossip", columns. The to in paragraph in our "Gossip" columns. The proba Lo the shows of this year, both at ever before, the prizes being more liberal than at any time in the past, erous than ever before.

The New York Horse Show. The Horse Show held at Madison Square the greatest annual light-hout event of the continent. The city, the "Gardens," the patrons, and the ex hibits, make success doubly sure, and Show secms to surpass of the efforts. For fifteen years the exhibition, under the auspices of the National Horse Show Association, has proved
a continuous climax. The conduct of a continuous climax. The conduct of
the Show has always been good. but it improves with the advantage of experience, until the rising and setting of the sun seems no more regular nor prompt than the succeeding ing audiences were light, the afternoon crowds were great, but at nights during the

> The show
arge as it has been ut the uniformly high character of
index of fleeting time-points unerringly to the fact that within the period named these will have come and gone.
this class of shows, in the estimation interest of ing the van of live-stock improvemof those leadbeen so generally realized by the rank and file been so generally realized by the rank and file of
farmers as is desirable in the interest of all, but year by year increasing numbers are coming to see them, and, invariably, to see is to
be satisfied that these are in many respects the most in teresting, helpful and practically useful exhibitions of live stock and its accom-
paniments that are placed pefore the public in this country. From the consumer's standpoint all classes of the community are vitally inter-
ested in the objects of chese exhibitions, which are the improvement of the quality
of a large proportion of the of a large proportion of the
food being prepared for the people, and the best means of securing that improve. ment. The great aggregation of producers in these lines they are not only included
with the consumers, but are largely dependent for the sinew he battle of life upon their receipts war to carry on ling of live stock and its products, while all the indications point to the certainty of an increasing
dependence upon these as the safest nue from the farm.
The feeding of stock on the farm is the only practicable means by which the average farmer can and reap a fair reward for his labor, and the class of question of profit or loss in the transaction. If it be true that one class may be fed at a fair profit and another may be kept it an actual loss, as has been ous instances by the sine logic of veights and measures and dol ars and cents, surely the soone the peope interested know it
and realize it. the better for
them and them and for all. There is only one means of grading up the
common stoch of the comntry, common stuck of the country, tion: that is by the mise of pure hred sires of the wandard breeds ase of this means, intelligent and judicious feeding, munt ac
ompany it. The olbject of the fat stock. dairy and poult of the
hows in to furnis. hows in of furyish a poultry ahathent whe mothody
stand poiny interesting feature from an educational Standpoint, while the practical illustrations of the
most approved methods of dressing, preparing and packing poultry for the export trade, which is constarty growing, are subjects which interest a very
While we believe these shows are ye
fancy and
in the not distant future, yet they expansion

the poultry bullding at the o. A. ©
sufficient progress under obvious difficulty to commend them to the favorable consideration of the
people, and will well repay the time and expense of attending them, and the latter item is expense of very moderate limits by the arrangement effected with the railway companies, whereby on presentasion of the prescribed certificate single rates are ings of farmers and stockmen during the show weet at London, to be addressed by well-known experts
nship contest. and progeny contest. maller horses, colts, mares, son of Dangelt, Brandango, Prince Orompton, a Performer contested, but the two-year-old, Prince Crompton, carried off the challenge; while Fan-

There was a great show of light harness horses ncluding Standard-breds and roadsters. Some of the great sires of speed contested in the stallion
sections. Gen. Tracy's Advertiser, 2.15, by Electhe entries suffices to cause the breed The chief ex bibitors in the breeding classes were Messrs. F. C. Stephens, of Attica, N. Y.; E. D. Joruted to the competition: A. J. Cassatt, contribPa.; Glen Dower Stock Farm, South Newhury Vt, Graham Bros., Claremont, Ont. ; Chestnut Hill Gerkendale, Pa. : F. G. Bourne, Oakdale, L. I., and fortunate, and is much regretted, that through illness a consignment from Hillhurst Farm, Quebec, could not be try, Lord Roseberry, by Lord Derby, met a strong rival in Fandango, from Maplewood, each putting up a sensational display, and each
conformed well to the ideal Hackney pattern. Fandango, hy Lord Rattler, by Lord Derby 2nd, like his rival, is no youth. being nine years old, recently been under cover, but he is a great horse of a great breed. He was well shown; entry, that did not reach his best in going. There was keen competition in the
tioneer, a horse for which was offered $\$ 125,000$, was the case were not let out during the feeding Pilot Medium. Alcander by Alcanta, and the Ear by Mambrino King, that won in the order named. The championship was easily won by Dare Devil, a black son of Mambrino King. He stands 15.3 of elasticity.
Thoroughbreds were meagerly shown, as only
three stallions responded to the call; but saddle three stallions responded to the call; but saddle horses made a great display. Among the numerous
exhibitors of this class, Messrs. Adam Beck, of London, Ont., and George Pepper, of Toronto, wer successful competitors, as was also Dr. F. C. Gren side, V. S., formerly of the O. A. C. staff at Guelph, Ont. It is notable that a get of the Hackney
stallion, Fordham, and out of a Kentucky saddle mare, won second, for Dr. Grenside, in the section mare, weight-carriers up to 200 pounds. The Canadian stables contributed several winners in various

The Proposed Chicago Fat Stock Show. A despatch from Chicago, Ill., dated November 24, says: "Definite steps were taken to-day at a States Live Stock Breeding Associations on the formation of the proposed new association of live tock breed the holding of an international fat stock and breeders' exposition in Chicago next fall and in subsequent years. The proposed exposition will be held in the new Dexter Park Pavilion at the Stock Yards and in additional buildings to be erected, it being the purpose to exhibit only cattle in the
Pavilion. It is anticipated that breeders from Can Ada, England and the Continent will compete with American raisers the the premiums "The International Live be taken out in Illinois.
The date of the first exhibitio was fixed at December 1 to 8, 1900 . Among the premiums available for
the show are the following: American Hereford Association, $\$ 5,000$; American Shorthorn Association, \$5,000; Polled Angus Breeders' Associaion, $\$ 5,000$; Polled Durham Associa $\$ 1,000$; Galloway Mattle Breeders Association, $\$ 1,000$; Cotswold Sheep Breeders' Association, $\$ 500$

| The following officers were elected |
| :--- | President, JJ. A.

dent, DeWitt W. Smith; ; Second Vice President, Alvin H. Sanders; General Manager, W. E. Skinner; Secretary, Mortimer Levering; Treasurer, R. Z. cattle; A. J. Lovejoy, hogs; G. How- Ho
ard Davison, sheep; R. Bgilvie, horses; J. Ogden Armour, packers E. F. Swift, stock Yards; John Clay,
commission; William H. Thompson,
Live Stock Exchanges : R. Gibson, Live Stock Exchanges; R. Gibson, portation

Feeding Steers for Export an extensive feeder's syste.
o the Editor Farmer's Advocate :
SIR,-At your request, I have no
esitation in giving your many readers a short account of my experience in feeding steers for export. Of course,
at the outset, I wish it distinctly understood that I do not claim to know it all, or one. It will seldom be possible for two feeders to follow exactly the same system, yet
both may be successful, judged by results. ith may be successful, judged by results each winter for twelve years, but am not prepared to say that I have the proper system, although I me ten years ago, owing, no doubt, to improved ensilage, clover hay and straw, and, of course, smaller quantity of grain. For instance, last year
I sold my peas and barley, receiving 60 and 50 cents per bushel, respectively, for them, and bought corn per bushel, respectivery, to 40 cents per bushel while this year it is doubtful if, at present price for the former grains,
it would be profitable to buy the one and sell the it would be profitable to buy the one and sell the
others.
Probably I cannot give your readers a better idea of my manner of feeding than by stating the esults of my feeding operations during the last 1,100 lbs. each when placed in the stables about first of November, and weighing $1,365 \mathrm{lbs}$. when shipped early in June. I give these figures to show the actual result, leaving your readers to draw their
own conclusions. This lot were fed in the follow own conclusions. This lot were fed in the follow
ing manner : One lot of 49 head were tied in the ing manner: One lot of way ; were not let out during the feeding period, and having water before themg all the time The other lot of 40 head were fed loose in pens, power, as in the case of the lot tied up, and as in


PRECIOUS STONE
imported 2-year-old Shorthorn bull
property of w. d. flatt, hamilton, ont (See "Gossip," page 629.)
who have started out with the idea in the spring of the year and provided abundance of cheap fodder, such as corn or ensilage, and straw ; hay and grain he who counts at what cost will never follow it. At best the most economical feeding is necessary to obtain a profitable result, and margins are too narrow to permit of waste, or the bensive materials which can be, by forethought, provided.
The treatment of stockers and fattening cattle entirely different. For the former, daily exercise the latter, though I prefer them running loose, for "short-keep" ones it is not so important. Steers to be put on grass, I start on a mixture of
cut corn fodder, straw, and a little clover hay dampened, and a little bran and pulped turnips, Of this they are given, morning and night, all they will eat, with long straw in the middle of the day, nd a small allowance of hay at 8 o'clock at night. fodder is usually finished. I then give cach steer wice a day 2 bushels of ensilage, and after the morning feed from to $\frac{1}{2}$ hushel of mangels. with oats added. No grain or roots are fed after the evening meal, but follow the roots at noon with nncut straw, and the last thing at night a little hay. Last winter for a time the straw was cut and mixed necessary. My aim in feeding stockers is to obtain from the minimum quantity of grain and inexpen-
as cattle fed liberally on grain are slow, gainers, and shrink heavily when first put out on grass. eeding is adopted, excepting that at the outset the are given more roots and 4 lbs . daily of a mixtur of chopped oats, barley and corn, which is gradually receiving 8 to 10 lbs . each daily
Excepting salt and a little sulphur, I have never given anything beyond natural foods, and therefore can give you no results of the use of spices. Animals up, but those requiring longer feeding give better latter method is a most important item not to be latter method is a most important item not to be
overlooked. With very little extra bedding cattle will keep cleaner than in stalls, and, taking every thing into consideration, I am decidedy in favor o square), but some stalls are necessary for tying an occasional steer that is shy in pushing himself up against the rest at feeding time.
Free access to water in the comfortable quarters where cattle are stabled is most essential, as they
can then drink at their leisure at such times as their astes incline them. Even if it is deemed necessary for cattle to be turned out daily for exercise, it is As to type for feeding, adhere closely to the be breeds, selecting individuals exhibiting the good characteristics of their breed in a marked degree avoiding long heads, long necks, and long legs.
Middlesex Co., Ont.
Robert McEwen.

Blanketing or Clipping Horses
We have reached," says Col. Edwards in the Newark Call, "the conclusion that a heavy blanket on an unclipped horse in the stable is detrimental to his health. Observation and experiment have
convinced us that the unblanketed horse in the winter is the healthiest and most comfortable. The best possible condition for a horse to take cold is when he comes out of the stable where he has been standing bianketed. The every part of his body. A heated horse should not be blanketed when
he goes into the stable. A horse with long hair will remain wet all
night under a blanket. If the stable is warm and free from draft the horse will be much better off without any acovering ample to protect the unacovering ampie to protect the unwinter. If more had been needed more not speaking idly. For some years we have carefully noted the effect of cold upon blanketed and unblanketed horses. Seven years ago we discarded entirely satisfactory. No man in his senses would think of wrapping himthe wraps when he went out the wraps when he went out A man who would leave a clipped horse unblanketed in thewinter should be arrested and sent to jail. And this work causes them to perspire freely in cold weather are better for being clipped. The cold air is not half so penetrating to a clipped horse as toone
with his coat on and wet. A clipped with his if wet, can be rubbed dry in fifteen minutes. The experiment has been thoroughly tested, and men who
own horses worth thousands of dollars would not have them clipped if they did not believe they were better for it."
Does it Pay to Feed Dairy Cows Liberally. At a Farmers' Institute meeting, 'Tonganoxie, ing milk for the Kansas City market from common cows picked up through the country. So far as possible these cows were fresh in the fall. During the winter they receive a ration consisting of a
mixture of 14 to 16 pounds of bran and corn meal, and what clover hay and sugar cane they will eat. In summer they receive, in addition to pasture and soiling crops, 4 to 5 pounds of bran. By this system
f liberal feeding, a two-years record shows an anmal income per cow of $\$ 70.99$, the milk being sold at an average of 8 c . per gallon.
Last year at the Agricultural College our best cow cost us $\$ 32.80$ for feed, the highest of any cow the herd, and yet the profit from that cow, over the cost of feed, was $\$ 24.12$ above the average of the herd. Does it pay to feed hberaly er ith a good above, or the best cow at the Agriculural College been stinted in feed, it would have been an extravagant piece of economy, that would have resulted a diseased pocketbook. The dairy cow is a hard
Kansas Experimental Station. D. H. OTis,
The Bible for Farm Instruction. I use your paper as a guide-book for general instruction. Nov.

## A Resignation.

Referring to a paragraph in the last issue of the FARERR/8 ADVOCATE re the appointment of a new Macdonald, the former occupant of that position, dismissed from the Government service was incorrect, and in support of his statement encloses the ollowing copy of an extract from a letter which he the Provincial Secretary's Department. "I ha the honor to inform you that by an Order-in Council, No. 6608, dated November sth, 1899, your
resignation as Dairy Superintendent has been
accepted."
We cherfully give space to the foregoing, and can assure the late Superintendent that he has our best wishes, as has also the dairy industry of
Manitoba and all those engaged in its promotion in various capacities.

## Tuberculosis Among Dairy Cows.

 A report by Professor Wortley Axe on the reFarmers' Association into the prevalence of tuber culosis among dairy cattle appears in the journal of the Association recently issued. Nine herds wereselected for testing, the number of animals in eace including bulls, ranging from seventeen to ninety, four. In two herds, containing respectively seventeen and forty-one animals, none of the animals reacted, and in one containing eighty-three the
reactions reached only 3.6 per cent.; but in the other herds the percentages of reactions. were respectively
$20,30.3,43.4,71.4,76.9$, and 90.4 . The herds which gave no reactions were bred on their farms, and being in the pastures or yards by night as well as by day. The other herds are kept to a great extent in sheds, and Professor Axe lays stress upon the influence of shed life upon the propagation of
tuberculosis. Of the 461 cows comprised in the inquiry, 5 , or 11 per cent., were found to have some disease of the udder of one kind or another, and, of
the animals so affected, 27 , or 55 per cent, reacted the animals so affected, 27 , or 55 per cent., reacted
to the test. Still, in an appendix by Mr. F. J. to the test. Still, in an appendix by Mr. F. J.
Lloyd, who analyzed thirty-three samples of milk
from the tested herds, he states that he culd from the tested herds, he states that he could not discover the tubercle bacillus in a single instance.
After this failure he took measures for cultion Ater this failiure he took measures for cultivating tried about thirty samples of milk in that way, but without developing the tubercle bacillus in one of

Why Breed Unprofitable Live Stock ? English Live Stock Jourral a a glaring folly in the part of very many English farmers, which he blames for their unpropitious condition. What is
true among English farmers in this regard applies true among English farmers in this regard applies
well to a large number in Canada and other lands who through choice or force of circumstance neglect the improvement in the ir
stock that is easily within reach. This is what Samson says: subject, which is so important of this pecuniary success of all farmers who
breed live stock, we willingly breed live stock, we willingly concede
that, after every endeavor has been ng; but because that is so, it is nonthe less a mistake to keep these misfits to propagate other misfits, and so to
lower the standard of the animals of the country, The argument in appli-
cable to all descriptions of live stock, but in the present article we confine it principally to Shorthorn cattle. In
most farmers' stocks in the northern counties of the United Kingdom you find some half-dozen cows of more than ordinary excellence-good in
shape, flesh, and milk, and which shape, flesh, and milk, and which contact with the best pedigree herds.
But the others, it may But the others, it may be from thirty
up to fifty milch cattie on each farm, Aup tif firy milch cattle on each farm,
fall by gradation, and you have the
feeling that feeling that some of them are not
paying for their keep They paying for their keep. They have been
bred in a happy-golucky way fron bred in a happy-go.lucky way from
lack of thought mainly, but with the intention strongly underlying, al though not ongent underlying, al
chilling
confessed,
of shilling in the service fees. Unsound horses on the road at low fees are not the only
sinners. For some years past a system has grown up antongst northe yeare farmast a system has grown
bull and rearing all their mal using a pedigree These latter are mainly sold in the auction marts. as pedigree stock, although they are mostly bred frequently results following the use of such bulls,
The trade. too unusual to see y yarling bulls sold at from 6 to 10 gs., These are the mong pels the breeder and rearer. songrel and mprotitable. At a sate of pedigree sooch sire purchater hats the upportunity of seeing huv and can them asenre himsif that they are good
the best of the dams in his own herd from whic he purposes to breed his future produce, he cal then satisfy himself if they are lacking in any to supply the defect in his dam. It was precisel in thus selecting male animals to supply short comings in the females that the Holker and Ingle whod herds attained to such excellence. But eve bility come misfits and these must be clenred the males steered and the females fattened for slaughter. There can be no doubt but that if nine the northern counties (possibly the sume service to other counties) were sold as fat calves, or steered and sold fat as bullocks, the breeders (tenan armers) would benefit pecuniarly, and a manifes the country. At present such breeding and rearing

horthorn bull, prince lincoln $=23368$ d by Golden Robe $=20236=$; dam Lady Zoe 2nd $=25980$
for use is a lottery. The yearling may bring 6 gs higher figures. Such sires are simply a nationa loss, a deterrent to the improvement of the national breeds of cattle, and a pecuniarly loss to each
farmer who breeds them or from them. In the United Kingdom at the present time trade is good Wages are good, and the masses would prefer to eat British home meat; but when much of that meat offered to them is no better than the foreign meat
sold at 2 d . to 3 d . per 1 lb . cheaper, need we wonder that the foreign meat comes to us in ever-increasing quantities; and the future offers to intensify the competition, for the foreigners are taking the steps
so many British farmers ignore and improving their live stocks from British foum dations. The lesson is before our eyes, yet British farmers-at all events, too many of then- remain
apathetic, passive, looking'on with folded hands


解

BRED br T. Douclas \& soves, strathror ovt
whilst their principal trade is slowly but too surely departing from them, and asking Jove to lift the
wheel their rents. It is certainly a strange picture of 'rest and be thankfull, and the pity of the situar farmer, a man of capital, who took the case of was do be the worst of a dozen rams, because it in his own flock, to the probetable that ram for use hundreds of its produce. Where practice such of this prevails need we wonder that British agriculture remains under a cloud? How can we hope to
see the silver lining?

Best in Canada
II like Thomsos. Hamiota, Man, Oct 28th, 1 s90 "I like the Farieris Awo. Are wefl , is think

The Cruickshank Shorthorn
The remarkable sales of Shorthorns held in Aberdeenshire during the past month plainly set read. that the barrier of prejudice cannot to one and all bar the way in Shorthorm breeding There wa time when supporters of other types of the Wha horn made light of the "little red Cruictrhat bulls," but that spirit of persitlage is fast becoming as extinct as the dodo. Let any intelligent breeder, approaching the matter without prejudice, com-
pare the composition of the leadin pare the composition of the leading, Shorthorn herds in England to-day with ten or fifteen years
ago. We find the Cruickshank Shorthorn at home in places it would have been heresy, years ago, to have regarded as their ulcimate destination. This
steady onward march has been accomplished steady onward march has been accomplished chief-
ly by the foreigner's appreciation of the merits the modern beef-making type of Shorthorn. It was to foreign appreciation, first of all, that Amos Cruickshank owed the popularity of the type he flower of his herd was sold, to be rescued by the enterprise of two or three of our leading breeders. But what is really at the bottom of this pel
petual strife for Aberdeenshire Shorthorns? petual strife for Aberdeenshire Shorthorns? The
cannot compare with the English types for beanty or majesty of character, and on this score serious
ond fault has been found with them. After all, how ity, it is not a point have beauty wedded to util ity, it is not a point upon which the practica
breeder will be inclined to haggle type of Shorthorn has yet to be evolved, and al though what is regarded as the Scotch type is fre quently weak in character, it has soomething which er. That is pre eminently the function of th Scotch Shorthorn, but it has been subjected to rather unwarranted criticism over its spesected to
ability to fill the pail. It was sery ability to fill the pail. It was very far from Cruick-
shank's idea to produce a Shorthorn that did shank's idea to produce a Shorthorn that did not
maintain the cosmopolitan character of the breed and Aberdeenshire breeders are still convinced that the cry of pedigreeing the milk away has no foun
dation in fact, so far as their type of cattlo for cerned, although they claim pre-eminently to con satisfied aspirations with what must first he re arded as a butcher's heast
almost expect the bittereai ually seeing the fallacy of refusing to ane grad their milking Bates cows the Scotch sires. In the end it is a matter of \&s. d. vs. either prejudice or pelicy. It is the most popular cross nowadays, and essential, of course, that the milking cancity if he Shorthorn be maintained, and too much attenbreed. But it is given to that function of the bearing cows are necessarily devopod of pail-filling
ability.-Farmer and Stock-breeder.

Give the Colts a Good Start. Starve a colt the first and second raise a " "plug," no matter how good colts and filithe idea that it toughens it on poor feed is altogether roug foundation, and is often offered as excuse for negligence because it is young horses liberally ways to feed when it is assimilated it becomes the best class of horseflesh. Starved horses never made anyone a dollar and never
will. as they mature stock that, through lack of proper de velopment, have a tendency to wrong in their legs and digestive or
gans. gans. "The old Scotch proverb, that
"the flesh born on a foal ist valuable and should never be most, is as true as anything that be lost,
written, and if that feve written, and if that flesh is once lover it costs far more to replace it than to
have kept it in the first place. There is a limit to the capacity of all horses as to the amount that may be fed them, for what is not digested fed
ansimilated is more than wasted and
and does harm and gives rise to trouble
so that it is ne judgment as wo that it is grain, whecssary to foed with not hind a substitute in straw or cornstal-s should drain on the systeld the feeding be generous. In the should not be system of growing a heavy coat of hat to detract from of the animal, as the old dract from the condition hat is in good condition when cold, "Theather animal truth. It is also a bad pere," contains an element of young or old, out in cold and storms hitses, either this plan mave te purcasionally those we idea their seeding. In feeding and caring for stock of any kind we action must come trom the feed, as well as the covering, and for this reatson more grain should hairy covering, and for this reason more, grain should be
fed in the fall than at any other season to
colts. A proportion of new corn is relished with
the oats, and it is both stimulating and nourishing. the oats, and it is both stimulating and nourishing.
If well-cured clover hay is used, less grain is needed than if timothy is fed; butin any case, if the animal is not growing and gaining, the provision should be

## Ottawa Pig-Feeding Experiment.

Mr. J. H. Grisdale, Agriculturist at the Central of eight years' experiments embories the results of eight years' experiments there on pig-feeding,
from which he draws the following conclusions :

The experiments comary
The experiments conducted,
It will not pay to cok economy of pork production is the sole considera $\begin{array}{r}\text { tion. } \\ 2 . \\ \hline\end{array}$

There is a gradual increase in the quantity of feed consumed for every pound of gain in live
weight after the average live weight exceeds 100 lbs.

The most economical time to slaughter swine is when they weigh from 175 to 200 lbs .
4. The greatest and most economical gains are made when the swine are able to eat the most feed ine.
6. Skim milk adds most materially to the value of a grain ration and 100 lbs . mixed grains equal
about 700 lbs . skim milk. The relative value of skim milk in any ration varies with the amount fed, the poorest return per pound fed being obtained when the proport
food is the greatest.
76.44. The average dressed weight of
8. Skim milk is a most valuable adjunct to the
grain ration, when hard flesh is desire
meat more than breed; $;$. $e .$, the fact of an anima being a Yorkshire or a Tamworth will not insure a good bacon carcass, but they must
rangy type, and fed in a certain way.
rangy Feeding mixed meal (barley, peas and oats) with milk usually insures firm meat. 11. The greatest gains from a given amount of grain appear to be made when it is ground and
soaked for $2 \perp$ hours. Part of grain fed whole is soaked
frequently voideurs. Na fare being digested.
12. Mixed grains are more economical than grains fed pure. 13. Pigs whose rations are limited, make, on the rushed. 14. Maturity or ripeness of the animal affects
the quality of the flesh.

## At Buffalo in 1901

 In the Farmer's ADvocate for November 20th,reference was made to the proposal to revive at
Chicago a fat stock exhibition befitting the city Chicago a fat stock exhibition befitting the city
and the western interests that center there, and which, it was hoped by those promoting the idea, acter by again attracting Canadian exhibits. In the meantime, events are shaping towards a big Exposition in 1901, to which Congress has already given its recognition by a generous subvention,
and the promoters have effected a masterstroke by securing for Director-General the services of Hon crowned with such marked success in the adminis tration of the Agricultural Department at the
World's Columbian Exhibition at Chicago in 1893. World's Columbian Exhibition at Chicago in 1893. States interests distinguished service as its representative in the Argentine Republic. With the
memories of their Chicago achievements of 93 in memories of their Chicago achievements of 93 in
mind, the stockmen of Canada will naturally mind, the stockmen of canada follow with interest the unfoldment of plans for that department at the Pan-American, and whether individually or in a more comprehensive way,
measures will no doubt take shape so that the "studs, herds, and flocks" of the Dor
appropriately represented at Buffalo.

Public Stock Sales.
The question whether public auction sales of
pre-bred stock are in the interests of the breeders generally or not is one that will bear discussion. It is probably true that as a rule better average prices
are made by private contract, taking the years as they come, than are made at auction sales. In this
regard much depends upon the business ability and tact of the seller, and quite as much on the quality,
breeding, and condition of the stock to be sold. In breeding, and condition of the stock to be sold. In
order to share in the best prices going for stock of ranking as nearly as possible with those of the most generally approved breeding, type and quality, and that they will be attractive and catch the eye of the that they will be attractis, of course, applies equally
prospective buyer. This
to private and to public sales. While the system of doing business by private contract is and will the most convenient and least expensive, there are occasions and etrcumstances where it is necessary
or expedient to call a pullic sale and to dispose of
tition as the readiest means of dispersal. The
necessity of closing or dividing an estate, or of raising money for any special, purpose, a change
from one line of business to another, the fact of being overstocked for the stable accommodation or of being short of feed owing to an unfavorable season in the district, are all legitimate reasons for
the adoption of the public vendue as a means of the adoption of the public vendue as a means of
bringing buyers and sellers together, and may be to their mutual advantage.
The question of the advisability of establishing annual or other periodical auction sales is anothe
question, and one on which there is room for differ ence of opinion. Judging from observation of the exce of opinion. Judging from observation of the system in Canada in the past, we cannot say that we are sanguine of the prospects for success. Th of holding such sales, and so few have continued them for any considerable number of years, is
liable to lead to the conclusion that for the seller at least to lead to the conclusion that for the seller a least the results have not proved satisfactory. The success of such sales is not, however, by any means a conclusive argument against the system. In these later days, and in the hands of other men, they may meet the expectations of the most sanguine
and prove fairly successful. Annual sales have apparently proved satisfactory in Britain and to limited extent in the United States, where they are evidently on the increase. We see no valid reaso
why they should not work as well in this country especially in the case of large herds, from which selection of a considerable number could be made each year, and if a number of breeders, who are in to hold their sales on successive days, buyers would have an extra inducement to come from a distance, as the expense of one trip would practically cove the benefits of co-operation. Besides this the other breeders throughout the country would benefit from the presence in the country of visitors who come to
the sales meaning business, who may not find at


FoUR TYPES OF CARrots GROWN AT Brandon
EXPERIMENTAL FARM,
I899.

1. Iverson's Champion (white.) No. 2, Oxheart. No.
Loug Scarlet Altrinch. No. 4, Half-Long Chantenay.
these sales what they want, and would take advan tage of the occasion to visit many other herds, and far beyond the sphere of the original sales. In thi way any objections which may be made to public service in giving an opportunity for all to secure fresh blood from strong herds, to the improvement
of the breed generally and the enhancement of
trade. trade.
botin publicly has often been expressed by breeders means would, as they do in Britain, take an inter est in the raising and distribution of high-class wish is now being realized to a yery considerable extent by the enterprise of such men, and tha they have set their ideals high and will import and
breed from only the best oltainable. The disposa breed from only the best obtainable. The disposa
of this class of stock by public competition, wher of this class of stock by pablic competition, wher
the buyers are free to name their own prices, is surely a helpful means of distributing meritorious animals, and cannot fail to improve the general
stock of the country as well as that of professional breeders.
The men who risk a public sale virtually put entitled to fair consideration and encouragemen as long as they do their part but, on any pretext to quesfionable methods, confidence is properly gone, sympathy ceases, and the idea of a continua-
tion of annual sales has met the beginning of its that breeders and prospective buyers who attend the sales owe a duty to the seller which justice t
him and the retention of their own self-respect him and the retention of their own self-respect putting themselves in his place, remembering the
expense he has assumed in advertising and bringing together and entertaining the company, and should
do nothing from selfish motives, hy word ence, to prejudice his interests. The day is fairly
sion, and the man who attends a sale with thn
dominant idea of doing business for himself at the expense of another by depreciating his stock and has a very low estimate of the code of honor which should exist between brother breeders. The broader and more generous view, which recognizes tound in the long run to redound to the addentage of all concerned, individually and collectively. It is clearly in the interest of all that values be well sustained, and as the prices made at public sales are as erable influence in setting the standard for private contracts. A spirited and successful sale makes everyone present feel better and has a reflex influence for good over a wide circle. To the realizashowing a sympathetic interest and lending a helping hand.

## Stall Feeding of Fattening Cattle.

the Editor Farmar's advocate:
Sir,-I fear that the giving of my little exper ence as to fattening cattle may not prove of much inished two or three bunches of cattle in our stables our line being more in feeding stockers and finishing so as to grass. We aim to feed them in the stable, on the as in order to be away or well advanice in flesh before the usual midsummer drought or fly season, and then filling the late grass with stocker ready for the following winter and summer. As to
the best way of attaining all this, we can only express our opinion, acknowledging that perhaps we do not practice all we preach. As to the feed, we never have roots. Our succulent food is corn meal, is all the food we use. We try to have good silage. The cut feed is made when we thresh, being done all in one operation, as fully described in a
former article. cormer article. We aim to stable the cattle before
they fail in flesh in the fall. With what little ex perience we have of stabling cattle loose, we would perience we have of stabing cattle loose, we wourd
much prefer tying them up, being a saving of food
as well as bedding, which means food in most cases. as well as bedding, which means food in most cases As soon as possible after stabling the cattle, give
hem a good application of some insecticide. Kero sine emulsion is preferred, as it clears the skin of scurf as well. The emulsion is easily applied with a or three applications during the winter is all that ecessary generally. Two-year-old steers of abou 1,050 or 1,100 lbs. weight, and of a growthy, well built kind, are the best, stockers. More matured
steers, weighing about 1,200 or 1,300 , are good to steers, weighing about 1,200 or 1,300 , are good to
fatten. They, instead of growing so much, lay on flesh, which is all-important. We feed about 40 lbs. silage, 10 lbs. cut feed, and 6 or 8 lbs. meal to each stocker per day, dividing into two feeds, hav-
ing always a feed mixed ahead so as to all taste
alike. To fatten cattle we feed 45 or 50 llos, silage 10 or 12 lbs. cut feed, and from 10 to 14 lbs . meal, giving all the cattle one feed of hay in the day, as much as
they will eat. For stockers we prefer corn meal and oatmeal (or bran), 2 to 1 ; and to fatten we prefe peas and oats (or bran) \& to 1 . The prices of the o commence mealing rute us somewhat. It is best to commence mealing cattle as soon as they are put
in, so as to not let them lose any on the start, being careful to not overdose them with that or silage As cattle are not all built constitutionally alike, you must be ruled by judgment a great deal as to
what each steer requires or can stand. We like to phat about steer requires or can stand. We like to give the other half in the manger. By hydraulic rams water is forced to the stables, and, having water troughs in front of the cattle, they are never turned on a stormy day
We have given sulphur to cattle. A teaspoonful a week in their salt is about enough. It keeps the lice. Our programme for the day in a stable of 50 head of cattle is as follows: At daybreak feed th silage mixture, and while they are standing forward
is a good time to clean out the stables. is a good time to clean out the stables. When you
are through, perhaps some of the hearty eaters need a little more ensilage. We have the water taps ope while we are going over them. Meal them, and get out of the stable, so as not to disturb them, letting them lie down quietly. Some winters we practice
feeding hay at noon, but find they do as well by not being disturbed till 4 o'clock in the afternoon. We feed them their ensilage again, filling water trough as well, and then, after mixing the feed for the nex day, we give them plenty of hay, which they will ea
at off and on through the night. We never use lantern unless to see that they are all right at bedtime. Every farmer has his own way of feeding, and, of course, likes it. This is our way, and we
like it.
John B. Shipley. Middlesex Co., Ont

## Best I Have Ever Seen.

E. E. Robinson, Aroostook Co., Me.:-"Gents, find enclosed $\$ 1.00$, for which you will please send He has been looking my papers over and is well impressed with it. I have been taking the Farmer's ever seen for people looking for topics on advanced

Description of Wellington F. Justin's Farmhouse. (SECOND PRIZe.)
Farmer's advocate
Gentiemer,-I have pleasure in mailing you for competition for the prize you offer in ADvocate. The house was erected in 1897, for the accommodation of a small family on 100 -acre farm in the townwhen completed (not counting proprietor's work for

residence of wellington f. justin. second prize in farmiouse plan competition. inches, leaving 2 ft . of stone wall c
of soil.

The chimneys are all tile flued, and extend from cellar up, always keeping cellar well ventilated; cellar excavated 3 ft . and having a grade-up of 18 We had a few changes made in plan after it was
submitted to me, which you will observe. (The submitted to me, which you will observe. (The "Sith our house, and would not change any part now; would perhaps add one or two more mantels and grates, say, one in dining-room, also one in large chamber above to use in case of sickness.
I hope the above may meet with your approval Thope the above may meet with your approval
for a prize, and may be beneficial to some other
party who intends erectparty who intends erect-
ing a home. The whole building was planned and
erected with a view to erected with a view to economy and also conven-
ience for housekeeper. It
is quite easy to underis quite easy to under-
stand all from plan and "Specifications," whin and were followed out all
through. The same scale through. The same scale $e^{x t e n d s}$ throu Halton County.
$\qquad$
Stonerork. Build all. ston
walls for main house 6 f. 6 in
high and 18 inches thick, to b. Walls for main house 6 ft. 6 in.
high and 18 inches thick, to be
well bonded, and to hate as
many stones to extend acros many stones to extend across
wallas possibe; all angles to be
built piumbe and all walls left level to recei ive bond tiuber for
joist to rest on; all cellar wall
to be neatly pointed inside, and outside walls abore ground to to
have struck joints to be done in neat, workmanlike ma nner
Build in all door and window frames at their proper levels.
Build all fues for chimneys:
build in all stovepipe collars or ash-pit doors thate collars
necessary, or that is furnished by neecsary, or that is furnished by
proprietor; build stone walls
form ent form entrance to cellar; build
stone walls for front veranda where shown. Proprietor to
furnishall materialforstonework
and to do all teaming; stone mason to set and to do do all excavating and to be responsible
for correctness of same; build the central wall in cellar with terwards directed.
Brickicork.- Proprietor to furnish all material for brick-
work. with the exception of mortar color, and do all teaming contractor to furnish mortar color and all inaterial for samiffold
ing, the said scaffolding to remain for other trades; contractor not to use any material belonging to carpenter in building
scaffold ; proprietor to bring and return scaftold material whe scaffold; proprietor to bring and return scaftold material when
building is completed; build anl walls colored red on plan with
pressed brick furnish pressed lrick furnished by bry walls colored red on plan with
pelected and the best class to be used brick to be carefully
front of building: selected and the best class to be used on front of building
brick to be laid with neat bead joint in colored mortar, add not
to rise more than 1 inch to every four courses-that is, 1 inch of to rise more than 1 inch to every four courses- that is, 1 inch of
mortar to every four courses laid, all walls to be carried up
plumb and level, with joints plumb over each other turu neat mortar to every four courses aids all wals to be carried up
prumb and leve, with joins plumb over each other turn neatt
brick arch les or set stone caps las may be afterwards decided by brick arches or set stone caps las may be afterwards decided by
proprietor in neat and propet manoer; build chimneys where
shown to be one foot higher than roof ridges shown troo one foot higher thail roof ridges, to be well plastered
inside from top to botton; build tiles in chimney on north side of building, also all chininesy to be finished with tiles on top
throughout; build into chimneys all stovepipe collare that aro throughout; build into chimeys all stovepipe collars that are
required, and rods to stah chimners to roof; build in $2 \times$ xbond
timber where directed, the same to be placed 9 inche timber where directed, the same to be placed 9 inches from
outside of roick wall to inside of bond timber, this to be
strictly carried out bea fill strictly carried out, beam fill all joist on ground floor, and
froml plate to roof sheeting ; plaster inside of brick walls ond fron plate to roof she sting ; plaster insid
coat of mortar before strapping is done.
Carpenter and Joiner's Work.- Contractor to fond his own
boardito furnish all material for carpenter' and joineres' work
also all nails, spikes, or other hard warc hereafter specitied and also ail nails, spikes, or other hard ware hereatter specified, and
that is necessary for the prent that is necessary for the proper completing of building accord-
ing to plans and specifications ; the material for carpenter work
to be of the best to be of the best. quality of hemock, and of the follow wing
dimensions:- $r$ round and first floor joist, $2 x 10$; ceiling joist.
 Hich centers, the first floor joist to be brought all to same
widh throughoutall joit to have one row orbridging between
each bearing, ceiling joist to be placed 16-inch cente each bearing, ceiling joist to be placed 16 -inch centers, and to
extend over walls to form cornice; rafters to be placed 18 -inch
centres ind well siker
 ratters, and left ready, to recei ie slate, build saddlese behind
chimueys, and leave ready for tinsmith to cover with galvan
ized iron Form cornice with 9 inch fascia board and sontit, shected
with narrow beaded sheeting, with brackets placed in pairs, a with narrow beaded sheeting, with brackets placed in pairs, a.
show, with large bedmoulds wut between ; pabe trimmings to
be carrich out as shown, with pancl varge boards, and large



 roof same as front veranda, $5 \times 5$ champered and imouilded post
with brackets and bedmould. Put ura all inside partition
where shown, with .
 placed 16 centers, Kitchen and pantry floors to be laid, wit
surface-dressed, inch. well nailed to joist, and re-laid afte
plasteriny is done with wide, ot be kiln drived, sane ast detail allt the rest of than
floor and first floor laid with 1 -inch pine flooring dresed and matchcd, to be of good wuality. free from large kiots, and not Anild to ceiling joitt, parlor, halface-dressed, inch, wel
have 6 -inch face-moulded card





CPSTAIRS PLAN of wellington f. JUStin's hocee. Bath-room sheeted 2 ft 10 in. high, same as kitchen : all the
est of rons on ground and firt foor, exeept closes., on have
inch sinchre base and 1 -inch with wure casings, with peurail and she shelf floor trimming to be for oil finish, of first quafily if pine excep kitchen ; all the birch shtentill and all trimmings to be well smoonhed before being put on.
Front doors to have 28 nuould
and rebbected frame, with If door made to receive glass in top panel, of neat design, hun
with three $\pm x+1$ loose-pin steel butis; a good front door set in keeping with building; side and back door to have $3 \times 8$ moulded
frame, with 1 door hung with three $4 \times$ loose-pin steel butt tand good mortise locks ; all the rest of doors on ground floor to

 dors, hung witth 3x3 losese.pin buts and good mortive locks
Outside doors to have white oak sills; cellar to have matched and battened doors hung to 1008 frames, with 6 T hingee a and
thumb latch. All windows on ground and first floor to have bo frames made in usual way, with 1 -inch pulley stiles, 1$\}$ hangin
stiles, $2 \times 6$ heads and sills, 2 -inch iron axle pulleys, gend hun with cast-iron weights and Silverlake sash ford; 11 sach hun
with strong sash locks and lifts; altic and cellar windows to have 2x6 rabbeted frames, 1 sash hung with 3-inch steel butt
and metal buttons; cellar window frames to have white oak sills; put good outside blinds on all windows, except
attic, , hung with strong blind hinges and fastenings, Pantry fitted up with cupboard, where show, with cup-
boardi inclosed at bottom and top, with sheeted and battened
doors hung with 3 .inch but entrance to cellar from pantry with 2-inch strings and treads. with small door (sink to be furnished by tinsmith). and enclose Build back stair with 14 strings and treads, risers, treads made similar to back stair, front stair to have 1 string se,
treals, and frisers, treads and risers housed into and well Wedged into strings; wall string moulded to correspond with bgse form closet; to have $6 \times 6$ turned birch newel at botlom and $5 \times 3$ birch turned balusters, all to be of good quality; form panel a
bottom of stair. to be neatly moulded, and put rail with turned spindles from newel post to wall (all to detail). Put in all boxes
for stovepipe collars in ceilings and partitions where shown or directed. Build outside cellar steps where shown, with 2-inch
strings and treads; put up partition in attic to support rafter Frame deck with joist $2 \times 10$, placed 2-ft. centers, well spiked
oret her form manhole on top; roof of deck to be covered with matched inch, to be left ready for gal vanized iron. Build waile in pantry where shown, to extend to cellar, and encloced in
cellar with screen door, and in pantry with sheeted and battened door, with all the necessary ropesand pulleys made to
work freely to and from cellar, form four-bin beside waiter,
with table-top over flour-bin. made to slide on rollers with two


Material Used in Construction.-For foundation and dressed freestone for portion above (two feet above); also dressed stone sills for all windows. Brick-No. I pressed brick for outside, and dismortar with beaded joints. (See "Specifications.") It took about 35,000 brick, at a cost of $\$ 9,00$ per M, delivered at nearest railway station. The building is covered with No. 1 black slate would. All the outside woodwork received three coats of paint, and inside on ground floor is finished In oil. I would suggest all inside work finished in tions.")
For size of house see pale +ft , to the inch (four feet to in.). For a larger family, building could be extended, say ten feet farther back, thus rooms for servants, etc. (oak) and an Enclish in fired with a first-class mantel supplied with a water tank to hold about 50 gallons also a steel-clad, nickle-plated bath tub, 5 t ft ., and marble wash bowl ; soft water being forced up to tank flan.)


ing materials, so that some of the work woul probably, come higher to-day. Some might fancy a wider front hall, and if so, it is easy to add ore space.
The basement floor is laid with cement; cistern coats of paint or varnish. All woodwork got six and well ventilated; there being also transom fan lights over the doors of the up-stairs rooms. The floor and is 6 ft .3 in . high; the ceiling of first floo is 9 ft . 6 in . high ; the ceiling of second floor is 8 ft 10 in. high; the ceiling of attic is 8 ft . high. The is a closet off center bedleading to attic. The basement is of stone, wall 22 inches thick. The di
viding wall of basement viding wall of basement
is 9 -inch brick wall. The large part of basement
(14x25) is divided into (14825) is divided into
two sections by a partitwo sections by a parti-
tion [NoTe.-Our artist has not shown this on the plan. - Ed.], separa. ting the dairy room from the room for sealed fruit
and provisions. The dumb waiter goes up from the
latter to the corner of waiter goes up from the
latter to the corner of the dining-room, next to pantry, and there is an
opening, or, rather, small openig, between, making it very convenient, so that things can be taken
off or put on waiter either off or put on waiter either
from pantry or diningroom. The walls of the house are one foot, brick,
with inch air space, lathed with inch air space, lathed
on strips nailed to bond on strips nailed to bond leading from the basement comes out under
back stairs and opens back stairs and opens

Tinsmith Work. Tinsmith to furnish all material for gel vanized iron work, or any thing below specified , all iron to ink for pantry; put good gai umized iron eavestrough on main uilding; put square conductor pipes of gal vanized iron of
ufflcient size to carry off all water, to be placed where directed; sumt small trough and conductor on froot veranda all con-
puttors to be connected with boxes or other fixtures that may supplied by proprietor.
Painting and Glazing
or painting and glazing, to be of the best quality of the several indas required, knot-stop and prime the quale of the soveral
kide
kind
Tressed wood work with the best oil and lead them to receive dressed wood work with the best oil and lead them to receive
two more coats with olors as directed by proprietor, the
veranda floors and roofs to be painted eavestrough and
vent onductor pipes to receive two coats; all the inside work on
round foor to receive one coat of oil and wwil rubbed ootl
efore being dry, then to receive two coats of hard oil, to be well before being dry, then to receive two coats of hard oill, to be well
sandpaperd wwith No. paper atter each coat ial woodwork
so be stained, if desired by the proprietor, and if so, the said
aid stain to be done in oil the wood work on frontstairto berrubbed,
all wood work on firsi floor to reeeive three coats with colors
as directed, to be well as directed, to be well stopped and puttied, and sandpapered
after eacht coat before receving another closets to receive two
coats; kitchen and pantry floors to be oiled the outside blinds coats; kitchen and pantry floors to be oiled the outside blinds
to be painted to suit proprietor; prime and gaze all windows of
main house with double diamond gassof good quality. to be be
well tacked ard puttied ; attic and cellar to be glazed with star well tacked ard puttied ; attic and cellar to be glazed with star
lass; all frames to be primed before being placed in in building ;
cellar doors and windows inside to receive two coats.

Description of Third-Prize House Plan. o the Editor Farmer's Advocate:
Dear Sir,--Enclosed you will find plans of a armhouse completed this year, and for comfort and ample acremmodation for a family of ten, and if more ro 1 is needed the upper flat or garret, as can be seen $k y$ the photo, will furnish two rooms $12 \times 16$
feet each extra, making seven bedrooms in all. We eet each extra, making seven bedroms inse is : $22 \frac{2}{2} \times 33$ feet, the nearer square the more cubic feet it concains, as you are aware, and was built with first-class material and workmanship for $\$ 1,500$, not including
board or our own labor, hauling materials, etc. The oard or our own labor, hauling materials, etc. The contracts were let last season and before the sharp
d dvance which has taken place in the price of build-

is a clocet under the front-hall stairs, and we find
it very convenient, as it receives the rubbers and it very convenient, as it receives the rubbers and
coats before going into the parlor. The house is heated with a furnace, shown in basement plan. With regard to water supply and drainage. the cistern shown in rear corner of cellar, under washroom in first floor, supplies soft water for bath-room
and sink. The kitchen stove is arranged with what is called a "water front," which acts as a heater for the water and which discharges hot water into a 30-gallon range boiler set on a stand beside the
stove, and from this is distributed hot water to stove, and from this is distributed hot water to
bath-room above. The cold water is first pumped up from the cistern by a hand force pump next
sink in wash-room (adjoining pantry) to the sink in wash-room (adjoining pantry) to the lead-lined tank in the attic over bath-room, and
which acts as a distributor, pipes running down which acts as a distributor, pipes running down
to stove heater and to sink. The waste-water pipes from bath and sink run downward by cistern wall and into a five-inch tile drain, into which the
cistern can be drained away if required. Hard water is to be brought into house through pipes from spring well. The dumb waiter from cellar to pantry, worked by a rope lever and double pulley, is very convenient. The kitchen is ceiled with white ash lumber, sized 3 inches wide and beaded andrarnished,
The bath-room is lined with pine lumber, 4 ft . high, and oiled and varnished also. There is an air space or flue in each chimney for ventilation, with an air
slide for each floor. The house was not occupied slide for each floor. The house was not occupied pleted.
$\qquad$

Masonry and plastering
Painting and glazing and
Carpente
Slating.
Furnace, foor frames, sashes and surbase
2,600 ft. hemiock limber and scantling at $\$ 100$, he flooring and other lumber cost.
205 bushels of lime at 2t 20.
32,250 brick at $\$ 4.00$ per M .
Hardware.....
rlasting of Paris.
Tile,
86 loads of sand dde
8 barrels of cement
36ads of sand deliivered) at 60 c .
barrels of cement at $\$ 1.25$ per barrel
Hair-ub, basin, pump, and plumbing, all com:
Bathturete.
plete. Was.
$\qquad$
.
81,50000
Wilbert W. Revingion.
Farmers' Institute Meetings.
A series of Institute meetings proposed by the account of the local elections, been postponed until after the Amas holidays. One meeting only will
be held, it having been arranged for prior to the announcement of the elections. On December 14th a meeting will be held at Posen.


Renew Your Subscription.
We request our subscribers to be kind enough to remit their subscriptions for 1900 promptly, so as to lighten the extra work upon our staff at the end of the year, when the rush of renewals takes place We are sparing no effort nor expense to give our readers the best possible service, and will certainly appreciate the early renewal of their support. Kour subsiption alite.

How to Secure an Extra Copy of the Christmas Number.
We beg to refer our readers to the announcement on page 0ab of this issue containing references to a few of the special features that will appear in Decemristmas number for 1899, to be issued on December will h. As stated there, this supert 1900. Nothing more appropriate could be sent souvenir or Christmas greeting to friend We have therefore decided to send ontra we the Christmas number (the price of which to non subscribers is 50 cents) to any present subscriber sending us the name of one new subscriber accompanied by the subscription price, $\$ 1.00$. We rust that those who propose to avail themselves of this offer will do so without delay.

## A Good Turn to Others

A very large number of our subscribers are which we make as follows, It is simply this. That you send us the names and P. O. addresses of two new subscribers and $\$ 2.00$ and we will advance your own subscription one year and mark the nour subscribers paid till the end of 1900 . This is a case where your effort will prove a triple benefit - to yourself (a free paper for neaxt year), to your neighbor, and to the paper itself, by enabling us to carry out more completely the arrangements we have made for improvements in the Farmer's Advocate for 1800. New subscribers will receive the Farmer's adocate regularly from the time they pay their dollar until the end of 1900, including our handsome Christmas number, 1809, which alone to non-subscribers will be 50 cents.


Preparing Dressed Poultry for Exhibition. An exhibitor exhibits to win, and with dressed poultry, attractive form has a great advantage over even better exhibits carelessly prepared. At the coming fat stock shows, dressed and as "old hands" are sure to be forward, the beginners should take every precaution not to be outdone in the last stages of preparation. From a pen of well-fattened birds oft-meated, and those that are not spurry and hard. Full, broad breasts, legs wide apart
broad, rather short backs, and short, stout yellow legs are all desirable characteristics. Having selected the best from among the well-fattened of this type, they should be kept for twelve hours without food before killing. Kill by stabbing in he roof of the mouth, and pick dry. Not even the
ine outside skin should be broken, which will require great care, especially when the pinfeathers are being cleanly picked out. Pick the wings either clean or only the first two joints; ar quir should be
should be pulled. All the down or hair for taken off, the feathers neatly removed from the thighs, and none left at the joint of the shank Pick the neck clean to the head. Aforoughly with oft, damp cloth, hang by the legs in a cool, dark place till the animal heat is all out. They should b shipped and shown undrawn, and generally with he heads on.
In preparing for shipment, wrap each carcass
separately in clean wrapping paper, without bending or bunching the neck or body, putting an extra paper around the head, to prevent bleeding or
staining. Pack only a few in a box. which should staining. Pack only a few in a box. which should
hold them without bending or crowding. Stuff the emply spaces with soft paper to keep the carcasses in place. Be sure that they arrive at the show-
coom in good season, before all the rest are ar room in good season, before all the rest are ar-
ranged, as there is something in position, especially ranged, as there is something in position, especiall
if the space is crowded. Well-selected and wel fattened birds, prepared according to these direc
tions, will stand a good chance of meeting favor tions, will stand
with the judges

QUESTIONS AND ANSWERS.

## Veterinary.

ack teeth in pics
X. Y. Z., Oakland, Man.: "w Will you please answer in your next issue the following questions:
Please describe • black teeth 'in young pigs, its cause and treatment? If one gets it, are the rest of the litter in any danger of is sot
[Black teeth in young pigs is not in itself a disThe condition is certainly neither infectious nor contagious; but the cause that produces it in one pig of a litter is likely to operate on the others.
young of other animals, including those of the young of oother are more or less subject to "premature decay of the temporary or "milk" teeth. Change of diet, improved hygiene, and the removal of diseased and lo
tual treatment.]
churning sound in the horse.
J. S., Nanaimo, B. C:-" What is the canse of that well-known churning, rumbling noise that some horses make while trotting, and what [The "churning" sound heard in connection with some horses, when trotting or moving quick-
ly, is generally believed to be due to an anatomical cause, viz, an undue length or relaxed condition of the peritoneum, especially that portion of it care attached. The sound is always most distinctly heard when the bowels are comparatively empty. I know of no
infectious orfy
A Subscriber, Simcoe Co. Ont.:-"Please ad cattle of all ages; is very contagious. Out of a herd of forty-five, thirty were smitten, causing total blindness when both eyes were atrected. This after which they gradually recover without any after whent. Cause unknown. When in its first
treatment apparently painful stages the eye is swollen and apparenty, a thick
Discharge from the eye is clear and watery, causes blindness. This gradually becomes smaller towards the center. Please give cause and treatment. Wiil they he subject to it again being white have had a similar tronble the scum beerg white resulting sometimes in permanent blindness, when
the whole cro becomes white. Have tried them
with : solution of sulphate of zinc and other pre with a solution of sulphate of zinc and other ,pre
scribed cures. Pleasergive this your attention."
 Western (Dintant formonat It has been prevalent in cansed be infertion. Whe virus, in all probability
being convert in the ontmoshere. The first symp-
tomme tho

by keeping the lids closed when exposed. In rare case she shows constitutional symptoms by a loss of appetite, and if a milch cow, a decrease appear ance, which is usually followed by a whitish and glassy look. In severe cases there is a well-marked ately over the eyeball, especially marked pure case there is an ulcer formed which ruptures and gives stage is reached, or even before, there is total blind ness for a time. When the disease does not take this form the inflammation gradually subsides, the eye, or a portion of it, having a whitish, gassy. The change of color is due to an effusion of lymph (th result of the inflammation) being deposited between the layers of the external covering of the eye. In most cases this gradually becomes known the disease to occur in horses, but they are subject to a constitutional disease called specific phthaimæ, which simulates use ly becomes blind After a few at
from cataract

## Treatment.

arly stages th treatment is resorted to in the neglected it sometimes results in permanent blind possible, be isolated. put in a comfortable stable, partially darkened; al strong lights and drafts must be excluded. Sh salts. The eves should be well bathed three time daily with warm water and a few drops of the fol lowing lotion aropped in after each bathing Sulphate of zinc, 1 dr.; fluid extract of Belaadonna it should be carefully touched once daily with a pencil of the nitrate of silver. If a whitish color remain over a portion or a whole of the eye, afte the inflammation ceases, the following lotion shoul silver, 10 grs.; distilled water, 2 ozs. ${ }^{\text {J. H. ReEd, V. S., Guelph, Ont.] }}$

## Miscellaneous.

POOR RESULTS WITH Homemade incubator R. S., Wentworth Co., Ont.: "Last spring I with a lamp by means of hot-water pipes, and put 160 eggs in it, and only got about 20 chicks. Abicks 80 per cent. of the eggs were fertie, ${ }^{8}$ died in shell at about the end of the second week. The temperature ranged from 100 to 103 degrees. The box had no ventilation, so I bored six $\frac{1}{2}$-inch holes in the top and put in another lot of eggs.
They came along fine until the end of the first week, when the embryo settled in a dark red ring on one side of the shell, and incubation stopped. TTell me the cause, and remedy ," if there is one. The eggs IIt is difficult to stat
IIt is difficult to state exactly what is the cause,
causes, of the unsuccessful hatches. Homemade incubators are usually not the most desirable class, but occasionally someone gets a good hatch, which
encourages them to try once more. During the first encourages them to try once more. During the first
hatch the eggs may have been in need of air, or they did not "dry down" enough. If an egg does not evaporate sufficiently to allow the chick to turn about inside the shell just before hatching it cannot get out. If the temperature was during the last week, there was not heat enough. Did the temperature in the machine keep even all over-that is, were all cornes act accurate there may have been too much or too little heat. One hundred degrees is not quite warm enough, especially at the last of the hatch. If the infertile eggs were would not be all of an equal temperature, as one egg gives off or radiates heat to the air or adjoining egg. and an egg with a live germ in it is several degree warmer than an infertile one; therefore, when a ess heat reguired to keep up the temperature. It is difficult to say from the letter exactly what was the cause of the poor hatch. Think in the second hatch
the temperature must have surely gone wrong durthe temperature must have surely gone wrong dur
ing the second week. There should be a regulator or every machine, as it is almost impossible to run a machine at an even temperature where one trusts to the exact amount of blaze in
draft over the eggs or incubator

Manager Poultry Dept., O. A. C., Guelph.] mr. meyer ouestioned about care of

Reader:-"I was much interested in the suggestive letter from your correspondent, Mr large flock of hens that are getting up in years, and
some of them not in any too good condition. would like him to suggest a plan of feeding b which I can get them proftian ready me marke as to foods and
IPlace your hens in flocks of 20 to
2.0. in pens
about 10 feet symare. see that every hird is free from lice, and that the pen is perfectly clean and
kept clean. Have in sood supply of grit, in the
shape of fine gravel on anm suitable material. and
pure water always before them. The kind of grain you should feed depends upon what kinds you have on hand, as we or buckwheat, whichever yo have, mixed in equal parts with ground oats and moistened with milk of any sort (sweet or sour) will make an excellent soft food. Do not make it sloppy. Feed this in troughs twice every wheat in the trough, and always at night try to get them to eat some whole gran ater they having to them selves of soft food. The principal thing to avoid is them hungry enough to be ready for the next meal To these foods add table scraps and meat wheneve convenient. Keep their pen a little dark and the hens as quiet as possible.

Chatty Stock Letter from Chicago. from our own corrrspondent.
table shows current and comparative live stock

|  | Extreme | Two weeks ${ }^{\text {Top }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Beef cattle. |  | ago. | 1898 | 1897 |
| 1500 lbs up. | . 8540 to 715 | \$6 70 | \$5 70 | \$5 515 |
| 1350 to 1500 lbs | 480 to 700 | 650 | 565 | 550 |
| 1200 to 1350 lbs | 425 to 675 | 640 | 560 | ${ }_{5} 25$ |
| 1050 to 1200 lbs . | 410 to 640 | 630 | 550 | 525 |
| 900 to 1050 lbs . | 400 to 600 | 600 | 525 | 180 |
| Hogs. |  |  |  |  |
| Mixed. | 380 to 415 | 450 | 355 |  |
| Heavy | 370 to 4121 | 445 | 360 | 35 |
| Light. | 375 to 405 | 445 | 352 | 360 |
|  | 350 to 400 | 430 | 340 | 35 |
| Sheep. |  |  |  |  |
| Natives. | 275 to 40 | 415 | 450 |  |
| estern. | 253 to 425 | 415 | 415 | 46 |
| amb | 375 to 530 | 575 | 540 | 58 | Lambs... best cattie are the highest since 1885,.,utt the market for very Slumpy.





## 18 Woming grasser



17 Texast meal fed
${ }^{7} 5$ Shorthon and Angus
Shorthorns

30 branded ranger
0
1 Shate
11 Shorthorns
16 chorthorns
16 cross breds
${ }_{11}^{16 \text { Shorthorns }}$

| 16 sharthorns |
| :---: |
| 16 brandied catie |
| 16 cattle |

14 Srandedcats.
17 Sherthorns
17 Herefords an

There is nownoioubt that 1900 will witness the inaug gration


 Greders authorizizn the trustees to expend sit.ono in promi-
 great interextibitinus. inicaco show, and appropriated the sem of s.o. interese hung up in premiums for that important event
It propoced to take this show a permanent institution. The
The


 were supposed to be betier finishen than to-tay satude of 1.50 , 40. grace Shorthorn steers, which solin for est price paid here for cattle eince Dec. 10.1891 , when only eigh
head of fancy Clritu


U. S. Beef for British Army Chicano packers are receivining large orders for corned and
past meats for uris of the Briti ish army.
Recently the packers



British Cattle Market.

Live Stock Exports.



#### Abstract

But it was only the faith patties and boiled rice, with milk to drink. Besides this chu- meal he had also managed to get a quantity of long sirip cotton, with which he carefully bound and bandlaged strips of feet and ankles so that she might tramp through the lony


 and ane with comparative ease; and thon they set off on theirjungle with thes journey to Bud wra.
three miles ITH
Three miles is not a very long distance if it it is looked at
from our standponint-that
eight to say god order and at a convenient distance from our starting place, a journey of three miles is a mere nothing; nothing mor
than a matter of a few minutes. And if one is in tolerable health and well shod, why, it is not a a very formidable distance
as a walk; but as that frail woman went, on foot-in India as a waik: but as that frail woman went, on foot-in Hndiat
Where climate and cutom alikender waikinexercise almost
impossible-broken down in health and spirits living in hourly impossible-broken down in hearthand spirits- living in hourly,
nas, in momentary dread of a fearful and horrible death -sick, ened by direst suspense for the fate of him who was nearest
and dearest to her of all the world travelling, not by road or
rail, not with cool and comfortable shoes and stockings on her and dearest to her of all the world-travelling, not by road or
rail) not with cool and comfortable shoes and stockings on her
feet, but lame and worn and weary, scarce able to keep a footfeet but lame and worn and weary, scarce able to keep a foot-
footd and yet afraid legts aught should go wrong with that other
hoold
life so close bound up within her own-oh, thinking of all this, life so close bound up within her own -oh, thinking of all this,
doubt not that the three miles which lay between those Indian
dill doubt not that the three miles whichiay bet that it could never
villages seemed to her a journey so difficult
be accomplished. be accomplished.
But Maidid cheered her step by step, steadying her faltering
feet and often keeping her from falling by sheer fore of arm
 motherinstinct strong as life, and the absolute trust in God
stronger thand eath. After all, it was only her poor suffering
booly that failed ; her heart, never. Yet they did not reach the village that night, for several twee they lay for a long time behind a thick cluster of bushes ultant laughter of deeds of bloodshed and cruelty such as
happily an imperiut knowledge of Hindustani prevented the happily an impentindinn i= fult.
lady from understan
But she had gathered a little
But she had gathered a little of what they were saying, and,
whenthey moved off, asked Majid, anxiously, if ithey had mean-
tioned her husband, heaving a great sigh of unutterable relief when toiled on arain, making then, when the fright was over they toiled on again, making but slow progress, for she was
completely exhausted and beyond the power of making any
very great exertion son when the day broke, it found them
still in the heart of the jungle and not even within sight of Here Mrs. Mordaunt remained hidden under a broad-leaved
Bush while Majid pressed on to the village, in which there lived an oid lady with a reputation for a knowledge of medi
cines and herbs, oome to cure and others. to charm. Fortunatel for the preservation of the English ladd's life, this old person-
age was a great-aunt of the falthtul Majid ind he her favorite
relation, whom she received with extravagant expressions of aglation, Whom she received with extravagant expressions
rolat
joy and every demononstration of affection and pleassure. enter
As soon as her delight had subsided a little, Majid enter As soon as her delight had subsided himthere, and on the
into the business which had brought him there,
whol whole a very pretty piece of work he had to persuade the ol
lady to take the Feringhee Mem-Sahib in and shelter her, for more bitter hater of the European race could not, perhaps, be
found in the whole of India. But Maids infuence overt he
old dame by the by, she rejoiced in the name of Zee-Zeet-was old dame by the by, she rejoiced in the name of Zee-Zeet-
unbounded and atter short harangue heoveruled all her o
jections and made arrangements for bringing the lady in. jections and made arrangements for bringing the lady in.
becanut mina exclaimed, as a I Iast warning. it is only
bece has been good to my favorite relative that II do
"Oh, yes, yes, to be sure," he answered.
He knew in he once got her unpercived into his aunts:
use that the Mem-Sahib would be safe for any time that he house that the Mem-Sahib would be safe for any time that he
thought it needfulfor her to hide there. For the festive Zee
Zeet had a reputation, which was spread very widely indeed In that neightorothood, that it was alwass best to let ter severely
ilone and to such an extent did the superstitious inhabitants believe ir the power of her charms and cures that none eve
ventured te tions in the shape of propitiatory offerings, and only those who
were pretty sure of bing in her good graces dared venture to were pretty sure of being in her
take sogreat a liberty as that.
Majid therefore, with a wel
Majid, therefore, witha well-satisfied heart. went back in
gearch of his mistress, whom he found in what night be termed the last adonies of fright and weariness; being, por soul, it
that condition of body which made him determine to run that condition of body which made him determine to run all
or any risks in order to get her into the village of Bud wra by
daylight, instead of waiting untit the friendly shades of even
 And well it was for her -and for him - that he so made up
his mind for when at length they reached the safety of the old
lady' hut handy his mina, er wheil, without much difficulty-though se veral
ledd's hut, happily
times they were within an ace of running into the very arms o the Sepors, and all Majids skill was needed wharo oboce all
seen by the other inhabitants of the village, which above
things he was most anxious to prevent Mr. Mordaunts state things he was most anxious to prevent-Mr. Mors. Mordaunt's state
Was simply one of desperation, and that bitter hour which
Charles Mordaunt had so feared and dreaded was fast stealing To do her full justice, the festive old Zee-Zeet was wonder-
fully god to her during the twelve weary hours which fol-
lowed in spite of her hatred and loathing of everything belonging in any way to the Feringhee race so the poor fugutiv
English girl came through her hour of trial, and in the thic Knglish girl came through her hour of trial and in the thic
darkness which immediately precedes an Indian da wn. Alitl
gir child first opened her eye upon an anious and woef
ororld wherein battle, murder and sudden death ran riot.

We are all of us more or less familiar with the awful story
of the Mutiny of si, as whole how strong men dropped oit
their horses and died without so much as a struggle for life
 and famine thinned out the ranks of those who were sthiniold
ing out against the cowardly foe who butchered ilttle children
and helpless babies in their merciless thirst for bood - how the and helpless babies in their merciless thirst for blood - how the
live of all were in jeopardy erery hour, and nome who openned
their eyes upon the dawn had any reasonable hope that they their yeyes uon the tha wn had any reasonable hope that they
would live to sunse
And yet that wee small fragment of humanity, born into And
the world two months before her time, frail as a a now flake. fo
whom there seemed to be no place and no room, lay close cud
and

autumn day. Throve-ay, and throve apace-fed like a young
calf stared about her with wondering blue eves al lat least. that calf ; stared about her with wondering blue eyes at least, that
was what her mother said they werel when she did not thappen
to boasleep which wai about four hours out of the twenty-
four a twisted her very wrinkled and scarlet little face into the to be asleep, which was about four hours out of tace into the
four ; tisted her very wrinkled and scarlet litle fate morse of a
oddest contortions imaginable and doubled a wee morse Oddest contortions imaginable and utside, and sucked the first
hand into a fist (ithe thinmb of
of the four knuckles with an energy which under the circumstances was neither more nor less than thoroughly astounding.
But that was only now and then, for generally she lay sleeping the sweet and lovely sleep of babyhoo, a dear, wee,
skinned person, whose advent into the world had amply com skinued person, whose addent into the world had amply com-
pensated for all the mothers suthering and privation, who
allayed all her fears. and left no pain behind except the andiety pensated all her fears, and left no pain beenind except the anxiety
about her husband. If only her Charlie had been at hand she would have been perfectly happy, even though she had not a
second frock in the world for herself nor a proper rag of any
kind for the child, who was dressed in a strange arrangement kind for the chilid, who was dressed in a strange arrangement
of white cotton contrived by the festive Ze-Zeet
W. Dear good ond Zee-Zeet "- as the little fugitive lady called
 blessed ingorance of the fact that right willingly would the old
lady have cut her throat and made witch candlees and other
ghastly articles dc lunce of her body-under the influence or ghatstly articles dc co curee of her body-under the influence., or
perhaps pressure, of her nephew Majid, did more for her than perhaps presure, of her nephew Majid, did more for her than
bring the child into the world in safety. She cast about in the
villare for a wet nusee wnd village for a wet nurse, and find ing a young native woman with
a baby of a fer weeks old just at the point of death, carried her
off to her hut, and, atter binding her down to secrecy with all off to her hut, and, atter binding her down to secrectio with all
the inflenencof here evil eye and her worse reputation, intro-
duced her into the presence of the tiny heroine of this story duced her into the presence of the tiny heroine of this, story.
Lucky litte heroine! The poor grie eing dark-sined mother,
torn heart went out her Lorn heart went out to her at once, and she cuddled the hittle
bunde of winte cotton to her bosom and ched the last tear regret for the one she had lost upon the blonde and velvet-like
head of her new nursling. And after that, the little Fereringhee
lady and her babr had lack neither of attention nor oflo For nearls three weeks nall went well and not an aoul guessed
who was so sately hidden within the sacred hut of the old lady who was so safely hidden within the sacred hut of the old lady
with the evile The villager hnew that Corah had gooe
there after losing her babla but then Corah's lord and master was away, nobody quite knew where, being bearer to some
great English Sahib, who had gone up to the hills several months before. And as Corah was to be seen almost every day
walking in some partof the villaze and had evidently goto over
her trouble it was nothing to walking in some part of the village and had evidently got over
her trouble, it was nothing to anybody if Zeezeet those to have
her in her house or she to reman there. So for nearly three
weeks all went well her in her house or she to remain there. So for nearly three
weeks all went well and the small atom of humanity throve
and grew considerably and grew considerably, And then Mrs. Mordaunt never hav-
 to the nearest British camp-began to frel and
getting back to her own people once more.
IV tion of more than two or three hours distance from Budwri. fearing lest his old aunt's fanatical hatred should outweigh th
power of his influence over her and cause the betrayal of th
 time had come for them to seize the first chance that Provi-
dence gave them of making adash for the nearest British camp,
he felt at liberty to leave her for longer periods, so that he over the whereabouts of the world, so to speak. authentic information about the various barrise hit upon any borhood, but when he went out for a third time he fell in with told hime exactly haw the land lay at that moment twho told
him, too exaty how to reach the garrison of Singkote, and finally offered to carry a letter or message therson who did not believe in disclosing the hiding-place of his mistress, whom he
had brought safely through so much hardshin and danger to had brought safely through so much hardship and danger, to
half-caste who might or might not be as faithful as he made
himesif out himself out to be and who might sell her to the Sepoys, even if
he did not take an opportunity of murdering her himself.
" You've been in the camp ${ }^{\text {n }}$ he said cantiously "Yees, I Wan the cere three days ago."
"Ah! Dish officers "Aht. of course all of the Eng Ilish officers saw Clare Sahib, and
Gregor Sahib, and the Mem Sahib; and I saw Moore Sahib
and Mordaunt Sahib too."
"Oh, you saw Mordaunt Sahib?"
""Why, yes of course Ididido bou know him?"
"'re seen him," said Majid, evasively. "What is he like Oh! very well- he has got over his lameness.
Was hime? asked Majid, with truly Orie
mirable ind hifferene?". asked majl "Yes, he was lame-got hurt in the jungle-lost his wife.
Ah! that hurt him most,
Ah! Well, if you are going near singkote to-morrow, you might turn in and tell Mordaunt Sahib that Majid is on his way "In will. tho twe him a good turn and will do it."
the hive so the two
and Mand Majid returned to teot to prepare his mistress for good news and able
the was obliged, poor little woman, to have a nice comfor-
the babys blonde head; and then she tried hard them understood so much as a word she was saying, in spite the fact that
shining eyes, Zee-Zeet didnt want to know, se the little Eng
ishwounan made no impression upon her, therefore she had to content herself with whispering the wonderful news to the
equally wonderful baby, who, poor mite, didn't even know had a father, so was as inappreciative as the others had bee
before it And as soon as dusk fell, a strange farewel wastaken in the
little hut and the party set oft. 1 say strange because in those times it was strange, ay, more than strange, it was marvellours
to see a beautiful little foir-haired English woman clinging to
 loved her Zee.Zeet was torn by the oddest mixture of feelings
she hated anything and everything European with the fieree
and bitterest hatred imaginable the hatred which is born strong religious feeling and whieh may be seen even in thi
enlightened and Christian land, not between those who have chosen slightly different paths to the gate of Heaven, bnt, ala
for the procious example that tilhtre us on our way, even by
tween those of one Church, one faith. So the influence of "DDen, tore the old Bengalee lady one
was and the odd sensation of receiving real gratitude tore he another, so that it became very mucha case or motevil, pul
 the best of it. For Zee Zeet knew nobody better, that the re
ioiced in arentation which was the very revere of desirable
being in fact just about as bad as it could bee she knew tha not a single woman of her own race who had any knowledge of
her at anl would have touched her with o much as the tp o
one finger, let alone have flumg their arma around herand fairl
 would have lifted their eyes to hers, and yet this Feringhic
Meem Shib fearlesly and smilingly looked straight into he
eves. and somehow a thought crept into her mind that, afte ail, the blue eye of the Europeans were very pretty. And be
sidest that thought there cane also another one which she er
tertained grudgingly and unwillingly enough, which was on tertained grudgingly and unwillingly enough, which was on
of admiration and reerpect for the courage and pluk whitl
feared neither hers nor anybody clice witchcraft in aull the witl
There is no saying what the upshot of this mental struggle
might no have been. if the old lady had not tuld denls remelu
bered that ince the Englishwoman had been an impore the house se veral of her decoctions had "gowe bad," and more han
oue of her charme had refued to work. Oh. what if thi. Mem.
Sahib had an cvil cese of greater power than her own! The ery



















 tion manaro or womankind in matiter whether their compier

 in tur she atrologerin imported the story -by thistime distort




 on hio whol they Yore singularly fortunato, (or they foll


 Muiry being paepotul and honest and with tho oxection or other boot tho troubuang haoisivedamonit thom:







 and paca and orlor rovigno onow more over the nand hov











 neere seen seve on the face or a koo wowns wint pury









## Insect Bites.

The best preventive of gnat bites, or or other insec few drops of eucalyptus oil have been added. Ewealyptus is also a splendid disinfectant and pre-
ventive of contanion. $A$ remedy for gnat tites, or for stings of bees or wasps, is to sponge the epart
affected with a weak solution of linuid ammonia and water. An old.fashioned hut efficacious rem.
"ily is to to rub a laundresss "blue bag" over the spot.

## THE QUIET HOUR.

| Sandals of Peace. <br> "Thou layest Thy hand on the fluttering h And sayest, "Be still !" The silence and shadow are only a part Of Thy sweet will ; Thy presence is with me, and where Thou <br> I fear no ill." |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |

In these warlike times our thoughts naturally turn to the warfare in which we are all engaged, for if we are not on active service, there is somethion the necessity of theChristian soldier needing the girdle of truth, the breastplate of righteousness, the shield of faith, the sword of the Spirit, and for an
helmet the hope of salvation. In theory possibly it helmet the hope of salvation. In theory possiby it "the preparation of the gospel of peace"; but how often do people persist in walking with unshod feet over the rough and stony paths of life. They say,
"There is rest for the weary," but they only expect to find it "On the other side of Jordan."
A soldier should be well shod, not only for his own comfort, but that he may be in better condition to fight the enemy. One whose feet are cut and
bleeding, whose every step is painful, can hardly be alert, active and vigorous. This rule applies just as
truly to the Christian warfane. One who is careful and troubled about many things, who is worried touchy in the little everyday trials of life, is wasting the strength which ought to be spent on a real battle againstevil. Over and over again God has promised the blessing of peace this.
"There is no peace," He says, "to the wicked." But all who keep His commandments shall have "great peace," and one of His commandments is
"Fear thou not, for I am with thee: be not dis"Fear thou I not, for God."

Worry is both wrong and foolish. It is wrong
because God has expressly forbidden it. Like little children, we are commanded to cast all our care on does any good. It only upsets the nervous system of the worrier and makes his friends very uncomfortable, Besides, as we all know, most of a worrier's troubles are imaginary. He fears that things may go wrong, and bears, or, rather, doesnt would be folly to shiver in August because you may be cold in December. We never do that, of
course but don't we often make ourselves miserable course, band about future troubles: staggering along under their weight long before they reach us? God has faithfully, promised "As thy day, so shall thy strength be,", but He does not give strength or passon id the daily supply of manna in the wilderness. God gives daily bread-we may trust Him for thatbut He does not allow us to s
look to Him for it every day.
the gift of peace.
"Thou wilt keep him in perfect peace, whose Peace is not a thing of outward circumstances. Think of the majestic peace of Christ our Lord, which torture and insult could not shake. Compare it with the unhappy restlessness of Piatate or the
despair of Judas. We may all have a share in his despair if we are willing to put our lives unreservedly into His keeping. "My peace I give unto you," He says, and again, "My presence shall go with thee,
and I will give thee rest." The trifles which might and I will give thee rest." The trifes which if the soul is
fret and irritate us are hardly noticed fret with God's presence. We shall not worry
about the Future, for He holds that in His hand. about the Future, for He holds that in His hand.
The Present is filled with joy which far exceeds the The Present is filled with joy which far exceeds che
pain. The Past is all forgiven, and it would be un-
grateful to brood over what God has blottedout. The grateful to brood over what God hasblottedout. The secret of rest, then, is trust. Certainly if ciorl cannot order aright the world He has made, we cannot.
If we do not trust Him, then want of faith is at the If we do not trust Him, then want of fath is at the
root of the unrest which cripples us so terribly, and want of faith is sin.

Outward circumstances may vary, but, inward peace should remain unshaken always. How can
we fear when God is near us. Through the wildest we fear we may, if we will, hear our Saviour's voice saying, "It is I, be not afraid."
"Trust ye in the Lord forever : for in the Lord "Trust ye in the Lord forever: for
(Christ said. "My peace I give unto you," and
surely no other king could bestow such a valuable surely nu other king could hestow such a valuable
gift. It wats not only given then. He still gives geace, as He hat always done to those who will hold
gut their hands to receive the gift. Who would not
年 desire carnestly the peace which made the face of
the first Christian martyr shine like that of an the first Christian martyr shine like that of an
angle in the faceor painand doath st Patmemant
what he said when warned that bonds and atflic-
 things mowe me, weither count I my life dear unto
myself, what i might finish my course with joy, And these are hus solitiry instances. The peace of
the first Christians whinh made them go forward
ine joyfutly to meet twmith tomethes which we can
only once for all surrende

$$
\begin{aligned}
& \begin{array}{l}
\text { Just to leave in His dear hand } \\
\text { Little things. }
\end{array} \\
& \text { All we cannot understand, } \\
& \begin{array}{l}
\text { All that stings. } \\
\text { Just th let IIIm take the carc } \\
\text { Sorely pressing. }
\end{array} \\
& \begin{array}{c}
\text { Sorely pressing, } \\
\text { Finding all we let Him bear } \\
\text { ohanged to blessing." }
\end{array}
\end{aligned}
$$

a price for yours ; but the hens here say bey can't do it any cheaper. leaving it entirely must speak of a view from leaving it entirely must variety, grandeur, and poauty, it rivals any view to be obtained in the country. Five unending snow-capped peaks rise a mile above the great forest-covered ranges which form their base, while two glistening rivers and the fair your feet. Between Portland and San Francisco, on the Southern Pacific Railway, one passes over
some of the grandest scenery in America. With some of the grandest scenery in America. With two puffing and snorting engines, ined an altitude of about 4,000 feet. The wonderful engineering of this road-curving round and round the mountain-
opens to one's vision the most exquisite scenery, opens to one's vision the most exquisite scenery,
absolutely bewildering in its gorgeousness. At last absolutely bewildering in its gorgeousness. At it is ! [TO BE CONTINUED.]

## UNCLE TOM'S DEPARTMENT.

My dear Nephews and Nieces,
Yesterday the sky was leaden gray, the wind sang funera sery grass, now faded and brown, added to the cheerlessness of the aspect, and we mournfully quoted from Thomson's "Seasons"
"Fled is the blasted verdure of the fields;
And, shrunk into their beds, the flowery race
Their sunny robess resirn,
And woods fields, gardens orchards , all around
The desolated prospect thrills the soul",
But-
"All night the snowflakes sought the earth-the snowflakes They covered up the meadows brown, they bent the bushes And lent a thousand beauties to the world so fair and still." The view that filled our hearts with melancholy upon which our eyes linger lovingly, such a depth upon which our eyes irstall of snow. Not only by the schoolboy (who at its advent joyqusly resur rects his sled) is it hailed with delight; it seems to
have effected as great a transformation within us have effected as great a transforma it has upon the outer world, for gone is all the glonm and repining of yesterday, and new life invades every br
dren's chorus:

- Fair as a rose is our Laty of the Snows,
As she walks own the ralley with the winter in her train,
And the skaters langh and sing, and the merry sleigh bells
ring
Fron the ice upon the river and the snow upon the plain.' The snow brings with it the remembrance of th rapidity with which the years are passing by-so
short a time it seems since the Christmas chimes yladdened our ears, and now it is almost time to hear their sweet music again. A solemn thought it is, that all the months which have elaped all our deeds for good or ill are gone beyond recall. Although this thought may make us mournful, we should not permit it to unduly sadden us, but rathe give he
$\begin{aligned} & \text { Build on resolve and not upon regret } \\ & \text { The structure of thy future. Do not gro }\end{aligned}$
Among the soudso light shine on the path of hop
And disinate the darkness. Waste no tears
$\begin{aligned} & \text { Bon turn the page, ard smile, oh, smile to see } \\ & \text { But } \\ & \text { The fair white pages that remain to thee." }\end{aligned}$

Build on resolve and not upon regret" are the being followed by everybody. Why worry nnd fret that we did not act thus, or thus, at some time past-
the time we now waste in useless repining will the time we na source of future grief.
surely become a
Has the past been bleak and barren? Then let honest endeavor patiently cover it, as the fair snow flan shines forth our live, tharmed into noble sun shines forth, our lives, warmed like the earth
being by the vivifying beams, shall, around us, bud and bloom into greater beauty and usefulness. Let us but have courage to resolve, and surely be granted us. Courage is an attribute al sureuld strive to possess; that is, real courage, for much that bears the name is spurious coin ; but we shall have a talk on this subject some other time. ny dear boys and girls, but the knell of the last of the nineties will have sounded before our next chat so here and now let me wish you all a joyous Christ
Your loving, UNCLE Tom.
Maste.

## Recipes.

STALE RREAD CAKE. Two quarts of stale bread, soaked in water, and squeezed dry. rants, 2 lbs. raisins, 2 cups of sweet milk, 2 cups treacle dark kind), 2 cups (rather large) of sugar, 2 cups of dripping, or lard and butter
to taste, and candied peel, if liked.
scrapple-a nice breakfast dish.
Bil any kind of meat until tender ; separate from bones, and chop fine. Season with pepper and sage (if desired), and salt the liquor in which the meat was boiled. Put the chopped meat back into
the liquor, and while boiling, stir in meal until the liquor, and while boiling, stir in mear into a crock, about the consistency of mus.
and when cold, slice and fry.
"The Absent-minded Beggar."
rudyard kipling's handsome contribetio IN VERSE TO THE FUND FOR FAMILIES A

The accompanying poem is Rudyard Kipling's contribution


When you've shouted Rule Britannia! when you've sung Gor Save the Queen,
When you the finished killing Kruger with your mouth
Will you kindly drop a shilling in my little timbourine. For a gentleman in khaki ordered south? He's an absent-minded beggar, and his weaknesses are gre
But we and Pall must take him as we find hin.
He is out on active service wiping something off a slate, He is out on accive eervice wiping something or
And he's left a lot of little things behind him.

## Chorus

Duke's son-cook's son-son of a hundred kings-
Fifty thousand horse and foot going to Table Bay Each of em doing his country's work (and who's to look aft Pass the hat for your credit's sake, and pay-pay-pay :

There are girls he married secret, asking no permission to,
For he knew he wouldn't get it if he did. There is gas, and coals and vittles, and the house rent falling And itue, more than rather likely there's a kid
There are girls he walked with casual; they
For gon absent-minded beggar they will find him :
For an a asent-minded beggar they will find him;
Butit aint the time for sermons with the winter coming on.
We must help the girl that Tommy's left behind him.

## horus

Cook's son-Duke's son-son of a belted Earl-
Son of a
Son of a Lambeth publican- it's all the same to-day;
Each of 'em doing his country's work (and who's to look after
Pass the hat for your credit's sake, and pay-pay-pay : There are families by thousands far too proud to deg or speak
And they.ll put their sticks and bedding up the pout
And they ill live on half ick nothing paid cm punctual once a Week, Cane that earned the wage is ordered out
He's an absent-minded beggar; but he heard his coun And his regiment didn't need to send to find him his He chucked his job and joined it! So the job before us all
Is to help the howit bat Tommy left behind him.

Chorus:
Duke's job - cook's job Gardener - baronel-groom Mews or palace or paper shop-there's someone gone away:
Each of 'em doing his country's work (and who's to look after Pass the hat for

Let us manage so as later we can look him in the face,
And tell him-what he'd very much prefer-That while he saved the Empire his employer saved his plac And his mates (that's you and med ho may forget it ali; But we onot want his kiddies to remind himl
That we sent 'em to the workhouse while theirdaddy hamm
So well help the homes our Tommy's left behind him

## Chorus

Cook's home-Duke's home-home of a millionaire
(Fifty thousand horse and foot going to Table Ba
(Fifty thousand horse and foot going to Table Bay!
Each of 'em doing his country's work (and what have you to
Pass the hat for your credit's sake, and pay-pay-pay

## Two Prudent Giris.

The following account of how two girls went to
udy in one of our large cities is interesting, and may prove useful to any other girls contemplating the same thing. They had just $\$ 25$ a month for fees were paid for them. They took a nice large room at $\$ 10$ per month. To use their own words Our first purchase was a small gas stove, with two places for cooking. half a dozen things at once, small tea and coffee pot cost another $\$ 1$. We had brought dishes from home. Now, for the eight months we were in Todid not starve either.
This was our usual list, varied with fruits and egetables, according to the season :


We used three loaves of hread a week, ost us 12 cents; this left us 10 cents for fruit Our breakfast consisted of a good cup of coffee with milk, bread and butter, a banana, apple, of whatever fruit was in season. Lunch was genrally made from whatever was left from the dinnet
of the evening before.
At dinner we always had soup, fivecents worth
of soup meat beng theef soup, boiled beef, potatoes
and one other vegetable, with rice, and a cup of Mon-
Tuesday's dinner, the soup left over from Mon-
day, with a few vegetables added ; hash made trom with rice pudding, bread and butter, and tea. beans, stewed tomatoes, and lettuce, with sliced bananas and milk.
Thursday we had potato soup, lamb stew and some kind of dried fruitFriday we always had a pick-up dinner, made from the odds and ends teft over. if no meat was on hand, we had ham and eggs, with bread pudding. oast. so as to have cold meat for Sunday. Sunday we had noodle soup. We made the noodles, and one egg was all that was necessary
with a guart of milk to cook them in. This dish with cold meat, cup custard, bread and bulter, and a cup of tea, was all we wanted.
To be sure, we varied the meals each week, and
once in a while we had a nice porterhouse steak once in a while we had a nice porterhouse steak.
We kept within the $\$ 2$ limit, and had all we wanted of good wholesome food One pound of coffee would last us two weeks, and we paid 17 cents a pound for Java and Mocha. 'Ten cents' worth of tea
vould last us two weeks. would last us two weeks; ten cents worth of breaklast us ten days, and five cents' worth of salt and pepper lasted us three months. The weeks we did codfish, dried beef, etc. Dried beef, cooked in milk and thickened with
little flour, makes a nice dish ; also, codfish prea little flour, makes a nice dish; ; also, codfish prepared the same way. We ate no pies, cakes, or ho touch of indigestion. Our laundry cost us $\$ 1$ a month. We had it
done every two weeks, and kept as neat and clean done every two weeks, and kept as neat and crean
as anyone conld wish. At the end of the term we had lived within our income, and had $\$ 20$ left. The next term will find
us in our places, ready to take up the work again.

they all watch for the "fakmer advocate.

## The New Subscriber.

The taste for reading often develops early, but one is not always sure that the youngsters will Tommy's round-eyed interest. He's got the right thing at all events - and they all watch for the

Puzzles.
[The following prizes are offered every quarter, beginung fith months of April, July and October. For answers to 75c. For original puzzles - 1 st . $81.00: 2$ nd, 75 c .; ; 3 rd , 50 c This column is open to all who comply with the following
rules : Puzzles must be original-that is, must not be copied rules: Puzzases they must be witten on one side only of paper, and sender's name signed to cach puzzle: answerm must accompany all original puzzlee (preferatly on ecparate paper). is not necessary to write out puzzles to which yousend anpartial an-wers will receive credit. Work intended for first issue of any month should rearh Pakenham not later than the
 cent.
 We know that tricnce you do not lack Come lack, Di,k, then do come back,
And work akain with your old hipmates,
L, tust you find it is too late.


Something we would all like to be : consists of twent

16. 13 . 5 , is a song in two parts. $\quad$ L. B. Force.
Words of the same number of letters.)
-To make a motion as with wings.
1-To make a n
2-A girls nam
3- To assert.

- Ao assert.
- A friend.
- 

6-A thonght.
B-The fore part of the leg.
Primals and fimals spell a $\qquad$ L. B. Force.


These are important places in Sonth Africa-two cities, two sountries, and two cities. The six asterisks will be found to
spell the name of a persion on whom rests the responsibility of
the war.

An epigram of 41 letters, defines a millionaire.
21, 41, 11, 4, 29, 2, 23, is abached.
$24,9,40,19,34,15,31$, is state of
39, $11,2,36,12,37$, is a girl's name, spelling back ward and

$10,1,25,33$, is which,
$6,30.8 .18$, is pat of the day.
$13,32,16,28$, is tiding
Strangers One when their eyes meet.
If on the Tuo that's passing down street,
M
My precious Threc wassing down way street.
8 Double Acrostic
In "kinglishers" on the sea,
In "robin on toast. "or tea,
In "
In " the cat-bird" has a pea,
In ." sk rocketw, oh, gee
How they fizz for you and
In " soldiers" who halt,
In ". Canuck.", per shaps from Galt,

In " poultry " that moutt.
Belonking to Sam Holt.
Ais well-known author,
"Tis what you'll find,
If long enough you look.
(1) against ( ${ }^{(2)}$ to guide: : ${ }^{(3) \text { an absurd act ; }{ }^{(4)} \text { true ; (5) user }}$ by painters: ( 6 ) to decorate: ( 7 ) a Canadian city, (18) P fairy
clean; (10) heard on the farm; (11) a kind of lock: (12) an English island; (13) a river in Asia; ( 141 a girl's name; (ti5) hearty.
Primals and finals name $n$ famons poetand one of hy finest
poems.

10-A Puzzling Question.


Answers to Nov. 6th Puzzles.
Vightingale.
Turn paper upside down when subtracting.
Sedann-line, star-rat,
ling-gin, merlin-liver, sole-Leo. \& Easink, dago, indergo. crabbed. A rabic, tear, into, out-
crop, niches. Finals nd primals good crops, oducation. crop, nithes. Finals nd primals
5 The white man burden.
6 Air, ere, eer,

Slaking, taking, making like ing, oooking, looking, jerk-
ing, thinking, tacking.

10-Vigil-lance, vigilance
10 - (a) Apt to promise, apt to forget.
(b) Tis noney maker the mare ko
(c) Child piy hak
(d) Thild's pig. but rather's bacon
(d) Two of a trade seldom arree
(e) The absent anc nlays at fault.
(f) Every tean hes ith ith back

11 Itrael Yangwill, May Agne Fleming, Wendell Phillips, 12 Siren, reins, resin, rinsic
13

Solvers to Nov. 6 th Puzzles.
M. K. G.,. "'Arry 'Awkins," Maggie Kidd, " Ro
Additional. Soluers to Oct. eotril Puzzlege
,ansy " (also for ()et. 2nd), J. F. L.,., "Rolly,"
Poetical city maiden, rusticating for a while"(an you not show me some lovely sylvan dell, the
quiet haunt of nature, or lead me to some wild Country child. "We ain'tgotnone of them things round here, ma'm. We had a suicide last week,


Shorthorns


Will sell the fine young dark red
Shorthorn Bull, Sharkey $=30615=$ Shorthorn Bull, Sharkey $=30615=$;
calved March, 15 th, $1890 ;$ got by
Minais Prince $=2470=$ dam
Nin Trestain, Strathburn, ontario. FARGE YORK
JAMES BRAY, Longburn. MAN pLEASE MENTIOH FARMER'S ADYOCATE

NOTICES.
Why It is Liked. Jas. Speakman, Pen-












 mailed to pars bet fer the animals which
DAvid rest shoerthorn sale. The dispersion sale of the Shorthorn cattle,
and otherstock and effects, of Mr. David Rean
 the vendor, who is very popular whopere he he
best known, and general regret is felt by him
bet
 nd were mostroding countiess Folowing ane
shin the surb
hio natues of purchasers, their addresses, and the prices:- Cows and Heifers.



 Jessamime ze zith, 1 ycal Jaina \$8Gixford Rove 10th, W. Tookey, Mimosa, sīi
oxford Rose 12th, Alian Ramsay, Eden Mill,
 Jessamine 2th, Henry Arl.

 ward, sez Jessamine Chief 2nd 31458, Jass. Turner,Orton Samantha's Hero 3166, Ed. Doughty, Era, wod



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(-)


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fortable. Yon can go poorly clad in summer, but about this time of the yar you want to he thinking of the eas and pood. some elothing
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ing is made for both-THATS otr KlNI). We want yon to see nur asorotment.
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den you buy it from us at 3 . por cannot be got anywhere else. other stores. ost you 40c. elsewhere
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$\$ 4$ cash with order, we will deliver (express prepaid) 10 pounds of Empress tea, or 10 pounds of 35c. Japan, at any railway station in Mani, for $\$ 4.25$ we will deliver at any railway station in Assiniboia or sask a tchewan, or for $\$ 4.50$ wo wil wint Alberta or in British Columbia as far west as Revelstoke.
The amount you can
Send your name and address for our fall grocery catalogue.
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Breanclon, Mamin.

## ${ }^{66}$ PA ATHENERE9

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 $\substack{\text { herds. } \\ \text { REGIS- } \\ \text { TERED }}$
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## The Farmer's Advocate CHRISTMAS NUMBER.

THE 1899 Christmas number of the Farmer's Advocate will be more attractive in appearance and more valuable and interesting in contents than any previous issue, containing about half a hundred beautiful engravings ; and amongst its wealth of contributions are the following
"The Agricultural Situation and Outlook for the Dominion."
$\qquad$
Best Results on a Prairie Farm."
Written by one of the very foremost authorities on the subject, based on personal experience and wide observation as Superinten
Territories, ANGUS MACK AY.
' Pioneer Agriculture in the Red River Valley.' A graphic historical sketch of the early days in Manitoba and the Northwest, going back to
about 1800 , replete with interesting reminiscences of Hudson's Bay Co. times, and indicating the path of progress in the past. By J. J. GUNN
"Agricultural Education in Manitoba." By H. S. McLEAN, Assistant Prncipal, Normal School, Wimnipeg.
Agriculture in the Maritime Provinces.'
by senator dona,
' Log Cabin Times.
This will be a vivid recalling to mind of days and nights in the "slashing," when the logging bee was in its glory, and the wolf howled outside to the music of the roaring
back-log fire within, by REV. W. A. MACKKAY, B. A., D D., author of "The Pioneers of Zorra.
The Twentieth Century Farmer."
By PROF. JAS. W, Canada's Progressive and Aggressive Agricultura Commissioner.
'The Beginning of a Cure.'
A Christmas-eve sketch, by the gifted Canadian authoress, JEAN BLEWETT, whose
poetic and prose writings touch with a delicate hand the chords of humor and pathos. Woman's Influence on Farm Life.'

By MRS. AGNES SPENCER, "Dorset Farm," Ontario Co., Ont., author of "The Log Cabin's Lament
"Canada at the Paris Exposition.'
yreat Dominion will present before the world's critical eyes at the World's Fair of 1900 in the French capital.
6' The Future of British Agriculture."
menaces confront the British farmer and also two paths of deliverance. Two great are described by MR. ARCH
British Shorthorn Sales of 1899."
By Mr. Jonas Weble, of John Thornton \&co. London, Enc
Outlook for the British Sheep) Industry."
by mr. alfred manselle, of A. E. Mansell \& Co.

Agricultural Education in the 2oth Century." BY CHARLES C. JAMES, M. A., Deputy Minister of Agriculture for Ontario, formerly
Professor of Chemistry at the Ontario Agricultural College, and author of the text-book基

A Bright Chapter for Stockmen."
A seasonable article of special interest to stockimen, by the head of
Experiment Station and Agricultural College, PROF. C. F. CURTISS.
And there will be many other features just as good.

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The WILLIA「I WELD CO., Ltd.,
WINNIPEG, MAN.
noted Cap-a-pie by Clear the Way, out of
Augusta 11th by Catewayo. Nonpareil 3ith, a roan yearling, bred by Mr. Campbell, Deystone sa capital scion of that excelient Gruickshan
fanily, by Kintore Hero by Emanciator, and
her dam by Clan Alpine. Clipper 2nd, by Christmas Cup, is a handisome and well-formed
representative of the favorite Sittyton tribe of that name. Avarice is a yood roan two-jeat
old heifer of the Averne tribe that has done so
well in the north of Scotland. One of the most desirable things in the sale is the ninemonost
Imp. Belladonna, by the Cruickshank bull Crescendo, and out of Bella, 3rd, by Martin, by
the famous Star of Mo rning, who was by Pride
of Morning, the sire of Butterscotch, dam of Corner Stone, the Highand Society breed champion of the present year. It is believed
that if this heifer goes intoo good hands she will Among the Canadian-bred females are a
number of really excellent young cows and number of really excellent young cows and
heifers of such fine fanilies as the Misisie,
Duchess of Glloster. Crimson Flower, Village Duchess of Glloster, Crimson Flo wer, Village
Girl and other usenul sorts, of which space
Corbids fulther met Girl, and other usertur.
forbids further mention.
Mr. Flatt has been
Mr. Flatt has been exceedingly generous in
the selections romom his herd whith he illows to
go into the sale, and has put nothing in the list go into the sale, and has put nothing in the list
that is below par that is below par. He hopes for, and confi-
dently expeots, a large gathering of farmers
and breeders at this sale, and those who know and breeders at this sale, and those who know
him best will need no assurance that ho will
hairl well, and cosent everything, use the his pate on strictly honorab
brinciples.

The largest and one or ine present time is that of Messrs. H. Cargill
the pher over $\overline{5} 5$ animals during the present y ear, in addition to those of their last Year's importation remaining, gives them a herd of about
100 imported catte, besides some 20 head of other high-class animals bred directly from
imported Scotch bred sires and dams of first class families This firm has special facilititios
for securing the most desinable class of for securing the most desirable class of cattle,
Mr Cargill, hr, having visited the Old Country
last year, makiing valuable selections in person, and was, fortunate in negotiating an arrango.
ment with that excellent judge and reliable
meeeder, Mr. S. Campbell, of Kinellar, Aberbreeder, Mr. S. Caupbell, of Kinellar, Aber
deenshir, to select, purchase, and ship in
uuccessive consignments, the best class of of successive consignents the best class of
Shorthorns available with the resnit that up
to the present date 76 choice animals have to the present date 76 choice animals have
been landed in good condition this year, under been landed in good and competent herdsmen.
the charge of areful and
The importations of this year include a selec. Cion of 20 two-year-old heifers in calf, from the
noted herdsoo Mr. Inathie, of Collynie rand Mr.
Marr, or U Pper Mill, privilege which Mas Marr, of Upper Mill, a privilege which has
rarely, if ever, been granted to any other
buyer. These are an exceedingly uniform lot of typical A Aberdeenshire Shorthorns, but a
selection of some 30 heifers of the same age and of similar breeding, from other well-known
Scotch herds are quite as good individuals,
and are richly bred in the blood of thil leading herds, all being of the low-set, thick-fleshed,
early-maturing sort at present so much in demand. The purpose is to retain the 20 heifers first mentioned in the hera, and these are not
being offored for
herde: but the balatione of the
choiculy bred for sale, and partios requiring choicely-bred foundation stock, or fresh blood
to add to their herds, will find in the Cargill
oattle inst why anded animals or want, either amony the rom imported stock
There are a numbe
imported and homber of excellent young bulls,
are good enough to how on how hand which
orst-case wherd
 roan yearling, calved in February, 1898, bre
by Mr Duthie and sired by Count Arthur, a Cruichshank Victoria bull by Count Lavender
His dhan is by Master of the Realm, a Siutyton
Brawith Bud bull by Commodore, a grandso of the groat princess Romal hy a Chandion
of Eugland the ngland, and is of the same family a
thoed
nit
nars
 in his herd the past - cason, He i is a model
Shorthorn bull, straight his hines, smoothly
feoshed and showing trong character The roan throe- earrond, OHangecter. Duke, bred
by the Duke of Kichmond and Gordon, was ruickshank Clipper hu (riterion. His dam was by Strongbow, used
for three seasons at Sity ton, who was out of a daughter of the great Champion of England
This bull has developed into a grand, thicl flesthed animal) fullo op quality, true in his line
and long and level in his quarters, and is prov and long and level in his quarters, and is prov
ing a caital sire. Bacaphamp, a roan yearling, bred by Geo
Bruce, of Heatherwick, is an excellent youn Rruce of Heatherwick, is an excellent young
bull sired by Prince of Archers, by scotish
Archer, and his dam by the Nonpareil bull Archer, and his dam by the Nonpareil bull,
-oreman. He is a very stralght well
proportioned bull, with well-sprung ribs, and proportioned
full of quality.
Count Sarca
 Count A
his dam
breeding.
liring
Prince Cruick khank, a roan yearling, bred by
Mr. John Marr is a traight, smooth, well
formed bull of capital that Formed bull of capital quality; sired by
Emperor, by the (ruickshank Coldstrean and
out of Diamond lith by the Clipper out of Diamond 1 th by the Clipper bull, Stand
ard Bearer. The dam of Prince Cruickshank aras by the Mina bull. Mater of Cruickshank
Masterpice by Field Marshal. Prince William is a strai Yerince by Ram is a straight, stylish red
Star of the Morning, ore of Allan, Gwyne, by
Sthe best of modern sires The sire of his dam, Red Prince, , is an
excellenty bred Lancaster by the Missie bull,
Match Hime excellenly-bred Lancaster by the Missie bull,
Math Him.
A number of nice bull calves of equally good breeding. importyoung bulls as can be found
as fint at lot of your
anywhe ing place on this continent herd has taken a lead tion of the owners to keep it in that position Dy
breeding only from firs-class individuals of
the best blood. They are first class mens wh
 who faver them with their trade and their
eonflence.

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THORNDALE S TOCK FARM, MANITOU. JOHN S. ROBSON
30 Shorthorn Bulls and 30 Heifers - Write for particulari

Shorthorn Gows and Heifers for Sale GEORGE RANKIN, HAMIGTA. MAN $\underset{\mathrm{m}}{\text { GEORGE "MANKIN, Melrose Stock Farm." }}$

gossip.
Witenhen James, Rosser, recently sold to C. H:

 vocate, very much."

 The ADVocatre contains many items worthy
of praise and practice. Danikl Hawe, Treberne, Man.. Nov. 13th,




 Nor, 1 1sth of an in importation of 18 scotch Short
horns at st Jo

 Uppermill, Cairnbrogie. Shethin, Waterton
and Cromle Bakk, being the pick of hese
well-known herds.
well-known herrs
Wm.
Stothers










 Lo dispose of to neighboring ranche
Axtention is anain callod to the Canalian ing the people in this virinitry to enabie then
to visit their homes and fricnds in eastern Can-
 that there will be a large movement to east orn
Canada this seabou. The rate of sio.
soo for the cound trips iseaze ecedingly low, and wher tour
consider that it comes but once ayear and that
 ooes not require mum cons
that the trip bhall be made.

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 Sando otes, 1 trio lanzs, hans, 2 trios: ind 1 1, reecting and bely ian hares. Incluterd in the foryogine are as Brandon slows. All stork in firm tw ass conllition
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tion in general farm ork beore being plaeedin itu－
tita ation Seneral farmw work beore being placed in situl
ations．Boys ronk leven to thitreen are placed rom
the distributing home in Winnipey．Applications for

 in farm work，to Ma
Home，Barnario，Man．

## Opuntous

LLACE FOR THE FARMER＇S SON TO SPEND
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The Pirie will please pou and its work will strprisis you！

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The famous sire，Abbotatord $=1946=$ ，and
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bulls some toppersis）and a choice selention ol | bulls some toppers），and a |
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breeting oondition, and winl he found to be individuall of a high order of merit, and their breeding such
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The oldest homelbed bul we have was calved in April last. Correspondence or a personal visit
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the
shank Clipper family, a family excelled by no
other tribo for other tribe in that treat herd. While Mystic
Archer and Chief of Stars have done exceedingly well, Merryman, the beautiful red son of
Mr. Duther's Reveller, has unquestionably
Kone ont gone on better than either of them. He is now
an most attractive bull, leugthy, smooth and
beatifully finished at both ends. His head,
hari fily heautifuly finished at both ends, Gis head,
horns, neck, shonlders and breastare fautless
He belongto the grand old Cruicksaunk bred
Hibe of Marigolds tribe of Marigolds or Milkmaids, one of the old-
est tribes in Aberdeenshire. The femates have
also come out of quarantine in splendid form, also come out of quarantine in splendid form,
though by no means fat. Catalogues are now
ready, and will be mailed on application Ow ready, and will be mailed on application. Our
homebred heifers of which we have a beautiful lot, have just been brought in from the
fields and are in only fair keeping condition We have 15 beautiful yearlings, many of the
fromi imported cows and by imported bull. The T. DOUGLAS \& SONS' SHORTHORNS. The two Shorthorn heifer calves partrayed
on page efyo this issue are represestatative of
the extensive herd of Messrs. T. Douglac \& Sons, at Strathroy, Ont. On the left of the
picture is Maple Bank Beaty out of Maple
Bank Dais, by Young Abbotshurn's He Bank Daisy, by Young Abbotsururn' Hapir,
and on the rivht is Roan Girl, out of Wanetta
hy same and on the right is Roan Girl, out of Wanetta,
by same sire They are sired by Metro
Douglas' late stock bull, Valkyrie, by Absro
fouts Douglas' late stock bull, Valkyrie, by Absols.
ford, and out of Vanity, by Village Hero
Roan Girl won 2nd prize at he last Western
Fair, London. The herd numbers about 100
年 Fair, London. The herd numbers about 100
head, 5 of which are breeding cowe and
heifers. It is many years since this herd was heifers. It is many years since this herd was
eestablished, but the foundation of the present
lot was laid in 1886 , when 20 head of useful females, were purchased. From theservincl
useful stock was produced from the eserice imported Mariner $=272=$ =, a the sul service of
Campbell, of Kinellar, that was used bre by
Car

 added improvement, bout the prepotency of the
latter is most conspicuous ine therd the the
present time, as the


 portion of the herd had not yet been stablet
and, while they were on short past ute the
presented thrift, thick appearance. The
of the calves not yet wean


 and while he is in just nice breeding form, he he
weighs ome 2.200 pounds. ath hough he does ho
apear nearly on heary on acoun of hio no
pact, smooth form. He is well pach shlooth form. He is well do wnin in body
full and even ant either end ,and has an evei
corresponding iniddle. Hi back in






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sexes: also Berkshires. At very moderate prices.

Maple Lolge Stook Farm
ESTABLISHED 1854.
by the wreat Caithnees and Abbottefond buls, got he the great taimm. Knckle Duster and Abhoce
hieifrs in alif to imp. Kubts.
ford



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importations in 1859 of the hest prizewinners of importations in 1859 of the tees, prizewinners of
Englyd, followed by repeated furter importations
including winners of first prize at Royal Aggrioultural
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portod non-poisonounand reliable thorounhy tested
by over forty years' use on farms of above estate. BRAMPTON JERSEY HERD.
 soc.aing nimatam hain min wien Humpios B. H. Bull \& Sò̀,
om
BRAMPTON.
$\$ 200 \begin{gathered}\text { Do you want a Snap? } \\ \text { Now is your Chance. }\end{gathered}$ One good Jersey cow, 7 years old; one good Jersey
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preferred

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choice Jersey Mrade heifers, at reasonathe prices.
om W. W. EVERITT, Chatham, Ont.
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rich lreeding. Blood Best Offer. Some are prize- Prices Reasonable
winners "; others bred to butls of rich merit: ranking
 CHOICE AYRSHIRE BULLS

 $\underset{\text { Thos. Wallantyne \& Son. Stratford, ont }}{\text { W. }}$
 HICKORY HILL AYRSHIRES.


F
s


The International Exhibitio Association of Ontario will be held in Poutter
borough. Canada. on January 9th to 12th, 1900 . At the adjourned meeting of the American
Southdown Breeders Asociation, held at
Springfeld Southdown Breeders Association, held at
Springfield. NII., November 1th, the rule
adopted at the recent meeting of the Associaadopted at the recent meeting of the Associa-
tion providing that on animals "not bred in
the tion providing that on animals "not bred in
the United States and Canad." the entry fees
shall, after January Ilt, 1900, be on rams $\$ 5.00$
each and anw
 thax the rule will not take effect until after the
next anual meeting of the Association in
May, 1900. next annua.
Maior John A. Logan, who managed the
Chicago Horse Show of 1897, has met death
serving his country as faithful soldier in the
 Philippine Islands. It was on November 1th,
while leading a charge of the 3 Ind Infantry at
San Jacinto, that the blighting stroke came
whit San Jacinto, that the blighting stroke came
which sererer the vital thread. Major Logan
made a mark in the horse world as which severed the vital thread. Major Logan
mode a mark in the horse world as a breeder
of Hacknes, having owned the champion.
Bonfire. He leaves a owot whe chat of Hackneys, having owned the champion,
Bonfre. He leaves a devoted wife and severai
children. children. S. Hawkshaw, Glanworth, Ont., who
Mr. W. .S. He
arrived home from his importing trip from
Ent Erryleand on Noverember 11thpocalling at trip from
En his way to the quarantine station
ont ofte on his way to the quarantine station, where he
was going to relieve his 60 head of choice
yearling Shropshire in yearling Shropshire in-lamb ewes. These were
selected from breeders after the sale season selected from breeders after the sale seanson,
and include chiefly anitall that had boen
retained in the flocks for breeding purposes retained in the flocks for breeding purposes.
Mr Hawkshaw would like to retain a number
of Hhes of these in his wrivate flock, but the number
for them has been so great that he fears their for them has been so great that he fears thei
entire distribution within a very hort time.
Jos. Yuill \& Sons, Carleton Place, Ont Jos. Yuill \& Sons, Carleton Place, Ont
white: ©ur recent sales of Ayrshire cattle
have been A manda M. $2462=$ to



 Avenmore, Ont.; and one to Benjamin Hillier,
Carleton Place, Ont. We are eelling our stock
cheap this fall. On account of the wet weather
it wa it was impossible for uns o o cut our wild hay
and it left as about fity tons of feed shorter
than we had last year so wo than we had last year, so we are compelled to
reduce the stock in numbers." Wm. Thorn, Lyndoch, Ont, writes:-"My
Ayrshires are going into winter quarters in
fine condition, and my cows are all milking extra well. 1 have a few choice cows, heifors,
and calves for sale yet, at moderate pricos.
Roval star of St. Annes the friteprize two
 Condon, in 1898 , has grown to be a large, fine
bull, and has
fashionable colors and himself a sure getter of the superiority of his young cyalves. Ihave
niec bull calve for sale one three months old
sired by Royal Stan. it do sired by Royal Star, its dam having a milk
record of 47 pounds per day as a four-year-old My poultry is doing well. and can please any breed. I have had numerous sales the past
season in catte and poutry have shippedt
United States, Manitoba, and all parts of

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of the best breeding. Write the best breeding. H.J. Davis, box 290. wooostock. ont.
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